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Comune di Certaldo



**PROGETTO:**

**INTERVENTO DI ADEGUAMENTO STATICO E SISMICO  
DELLA PASSERELLA PEDONALE SUL TORRENTE AGLIENA  
TRA VIA TRENTO E VIA B. CIARI**

*Progetto ESECUTIVO*

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COLLABORATORI

COMUNE	Certaldo (FI)	DATA:	Marzo 2022
LOCALITA'	Via Trento –Via B. Ciari	Il tecnico Ing. Giovanni Corti	
COMMITTENTE	Comune di Certaldo		
ELABORATO	<b>DS3.4</b> CALCOLI ESECUTIVI DELLE STRUTTURE (FASCICOLO A8/9 – Campata "B")		



## **Sez. A8-9(B)**

Oggetto : **INTERVENTO DI ADEGUAMENTO STATICO E SISMICO DELLA PASSERELLA PEDONALE SUL TORRENTE AGLIENA TRA VIA TRENTO E VIA B. CIARI – Progetto ESECUTIVO**

Staz. Appaltante : **Comune di Certaldo**

Località : **Via Trento / Via B. Ciari – Certaldo (FI)**

### ***Impalcato – Campata "B"***

## **FASCICOLO DEI CALCOLI DELLE STRUTTURE**

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## Impalcato "B" – Definizione del modello F.E.M. (campata isolata)

### Introduzione

#### Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei NODI sono riferiti ad una terna destra cartesiana globale con l'asse Z verticale rivolto verso l'alto.

I carichi in coordinate locali e le sollecitazioni delle ASTE sono riferite ad una terna destra cartesiana locale così definita:

- origine nel nodo iniziale dell'asta;
  - asse X coincidente con l'asse dell'asta e con verso dal nodo iniziale al nodo finale;
  - immaginando la trave a sezione rettangolare l'asse Y è parallelo alla base e l'asse Z è parallelo all'altezza.
- La rotazione dell'asta comporta quindi una rotazione di tutta la terna locale.

Si può immaginare la terna locale di un'asta comunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni:

- una rotazione intorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una traslazione lungo il nuovo asse X così definito in modo da portare l'origine a coincidere con la proiezione del nodo iniziale dell'asta sul piano orizzontale;
- una traslazione lungo l'asse Z che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione intorno all'asse Y così definito che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione intorno all'asse X così definito pari alla rotazione dell'asta.

In pratica le travi prive di rotazione avranno sempre l'asse Z rivolto verso l'alto e l'asse Y nel piano del solaio, mentre i pilastri privi di rotazione avranno l'asse Y parallelo all'asse Y globale e l'asse Z parallelo ma controverso all'asse X globale. Da notare quindi che per i pilastri la "base" è il lato parallelo a Y.

Le sollecitazioni ed i carichi in coordinate locali negli ELEMENTI BIDIMENSIONALI e nei MURI sono riferiti ad una terna destra cartesiana locale così definita:

- origine nel primo nodo dell'elemento;
- asse X coincidente con la congiungente il primo ed il secondo nodo dell'elemento;
- asse Y definito come prodotto vettoriale fra il versore dell'asse X e il versore della congiungente il primo e il quarto nodo. Asse Z a formare con gli altri due una terna destrorsa.

Praticamente un elemento verticale con l'asse X locale coincidente con l'asse X globale ha anche gli altri assi locali coincidenti con quelli globali.

#### Rotazioni e momenti

Seguendo il principio adottato per tutti i carichi che sono positivi se CONTROVERSI agli assi, anche i momenti concentrati e le rotazioni impresse in coordinate globali risultano positivi se CONTROVERSI al segno positivo delle rotazioni. Il segno positivo dei momenti e delle rotazioni è quello orario per l'osservatore posto nell'origine: X ruota su Y, Y ruota su Z, Z ruota su X. In pratica è sufficiente adottare la regola della mano destra: col pollice rivolto nella direzione dell'asse, la rotazione che porta a chiudere il palmo della mano corrisponde al segno positivo.

#### Normativa di riferimento

La normativa di riferimento è la seguente:

- Legge n. 64 del 2/2/1974 - Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. del 24/1/1986 - Norme tecniche relative alle costruzioni sismiche.
- Legge n. 1086 del 5/11/1971 - Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica.
- D.M. del 14/2/1992 - Norme tecniche per l'esecuzione delle opere in c.a. normale e precompresso e per le strutture metalliche.
- D.M. del 9/1/1996 - Norme tecniche per l'esecuzione delle opere in c.a. normale e precompresso e per le strutture metalliche.
- D.M. del 16/1/1996 - Norme tecniche per le costruzioni in zone sismiche.
- Circolare n. 21745 del 30/7/1981 - Legge n. 219 del 14/5/1981 - Art. 10 - Istruzioni relative al rafforzamento degli edifici in muratura danneggiati dal sisma.
- Regione Autonoma Friuli Venezia Giulia - Legge Regionale n. 30 del 20/6/1977 - Documentazione tecnica per la progettazione e direzione delle opere di riparazione degli edifici - Documento Tecnico n. 2 - Raccomandazioni per la riparazione strutturale degli edifici in muratura.
- D.M. del 20/11/1987 - Norme Tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento.
- Norme Tecniche C.N.R. n. 10011-85 del 18/4/1985 - Costruzioni di acciaio - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.

- Norme Tecniche C.N.R. n. 10025-84 del 14/12/1984 - Istruzioni per il progetto, l'esecuzione ed il controllo delle strutture prefabbricate in conglomerato cementizio e per le strutture costruite con sistemi industrializzati di acciaio - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.

- Circolare n. 65 del 10/4/1997 - Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. del 16/1/1996.

- Eurocodice 5 - Progettazione delle strutture di legno.

- DIN 1052 - Metodi di verifica per il legno.

- D.M. del 17/1/2018 - Norme tecniche per le costruzioni.

- Documento Tecnico CNR-DT 200 R1/2012 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati.

- Eurocodice 3 - Progettazione delle strutture in acciaio.

### Unità di misura

Le unità di misura adottate sono le seguenti:

- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

### Geometria

#### Elenco vincoli nodi

##### Simbologia

Vn = Numero del vincolo nodo

Comm. = Commento

Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)

Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)

Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)

Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)

Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)

Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)

RL = Rotazione libera

Ly = Lunghezza (dir. Y locale)

Lz = Larghezza (dir. Z locale)

Kt = Coeff. di sottofondo su suolo elastico alla Winkler

Vn	Comm.	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly	Lz	Kt
		<m>	<m>	<m>	<daN/cm>	<daN/cm>	<daN/cm>	<daNm/rad>	<m>	<m>	<daN/cm>
1	Libero	L	L	L	L	L	L				
2	Incastro	B	B	B	B	B	B				
8	Appoggio fisso Y	E	B	B	B	B	B				
9	Appoggio scorrevole (bloccato X)	B	E	B	B	B	B				
10	Appoggio scorrevole	E	E	B	B	B	B				

#### Elenco costanti elastiche nodali

##### Simbologia

Nodo = Numero del nodo

Kx = Costante elastica in dir. X

Ky = Costante elastica in dir. Y

Kz = Costante elastica in dir. Z

KRx = Costante elastica intorno all'asse X

KRy = Costante elastica intorno all'asse Y

Nodo	Kx	Ky	Kz	KRx	KRy
	<daN/cm>	<daN/cm>	<daN/cm>	<daNm/rad>	<daNm/rad>
2109	1000.00	--	--	--	--
2213	1000.00	100.00	--	--	--

Nodo	Kx	Ky	Kz	KRx	KRy
	<daN/cm>	<daN/cm>	<daN/cm>	<daNm/rad>	<daNm/rad>
2212	--	100.00	--	--	--

#### Elenco nodi

##### Simbologia

Nodo = Numero del nodo

X = Coordinata X del nodo

Y = Coordinata Y del nodo

Z = Coordinata Z del nodo

Imp. = Numero dell'impalcato

Vn = Numero del vincolo nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-16611	2.00	8.82	4.66	0	1	-16610	1.92	8.82	4.66	0	1	-16609	1.83	8.82	4.66	0	1
-16608	1.73	8.82	4.66	0	1	-16607	1.64	8.82	4.66	0	1	-16606	1.55	8.82	4.66	0	1
-16605	1.48	8.82	4.66	0	1	-16604	1.40	8.82	4.66	0	1	-16603	1.33	8.82	4.66	0	1
-16602	1.26	8.82	4.66	0	1	-16601	1.19	8.82	4.66	0	1	-16600	1.09	8.82	4.66	0	1
-16599	1.00	8.82	4.66	0	1	-16598	0.94	8.82	4.66	0	1	-16597	0.88	8.82	4.66	0	1
-16596	0.81	8.82	4.66	0	1	-16595	0.75	8.82	4.66	0	1	-16594	0.69	8.82	4.66	0	1
-16593	0.63	8.82	4.66	0	1	-16592	0.56	8.82	4.66	0	1	-16591	0.50	8.82	4.66	0	1
-16590	0.41	8.82	4.66	0	1	-16589	0.31	8.82	4.66	0	1	-16588	0.24	8.82	4.66	0	1
-16587	0.17	8.82	4.66	0	1	-16586	0.10	8.82	4.66	0	1	-16585	0.03	8.82	4.66	0	1
-16584	-0.06	8.82	4.66	0	1	-16583	-0.14	8.82	4.66	0	1	-16582	-0.23	8.82	4.66	0	1
-16581	-0.33	8.82	4.66	0	1	-16580	-0.42	8.82	4.66	0	1	-16579	-0.50	8.82	4.66	0	1
-16578	2.00	8.91	4.66	0	1	-16577	1.92	8.91	4.66	0	1	-16576	1.83	8.91	4.66	0	1
-16575	1.74	8.91	4.66	0	1	-16574	1.65	8.91	4.66	0	1	-16573	1.57	8.91	4.66	0	1
-16572	1.49	8.91	4.66	0	1	-16571	1.41	8.91	4.66	0	1	-16570	1.33	8.91	4.66	0	1
-16569	1.26	8.91	4.66	0	1	-16568	1.18	8.91	4.66	0	1	-16567	1.09	8.91	4.66	0	1
-16566	1.00	8.91	4.66	0	1	-16565	0.94	8.91	4.66	0	1	-16564	0.88	8.91	4.66	0	1
-16563	0.81	8.91	4.66	0	1	-16562	0.75	8.91	4.66	0	1	-16561	0.69	8.91	4.66	0	1
-16560	0.63	8.91	4.66	0	1	-16559	0.56	8.91	4.66	0	1	-16558	0.50	8.91	4.66	0	1
-16557	0.41	8.91	4.66	0	1	-16556	0.32	8.91	4.66	0	1	-16555	0.24	8.91	4.66	0	1
-16554	0.17	8.91	4.66	0	1	-16553	0.09	8.91	4.66	0	1	-16552	0.02	8.91	4.66	0	1
-16551	-0.06	8.91	4.66	0	1	-16550	-0.14	8.91	4.66	0	1	-16549	-0.24	8.91	4.66	0	1
-16548	-0.33	8.91	4.66	0	1	-16547	-0.41	8.91	4.66	0	1	-16546	-0.50	8.91	4.66	0	1
-16545	2.00	8.72	4.66	0	1	-16544	1.91	8.72	4.66	0	1	-16543	1.83	8.72	4.66	0	1
-16542	1.74	8.72	4.66	0	1	-16541	1.64	8.72	4.66	0	1	-16540	1.56	8.72	4.66	0	1
-16539	1.48	8.72	4.66	0	1	-16538	1.41	8.72	4.66	0	1	-16537	1.33	8.72	4.66	0	1
-16536	1.26	8.72	4.66	0	1	-16535	1.18	8.72	4.66	0	1	-16534	1.09	8.72	4.66	0	1
-16533	1.00	8.72	4.66	0	1	-16532	0.94	8.72	4.66	0	1	-16531	0.88	8.72	4.66	0	1
-16530	0.81	8.72	4.66	0	1	-16529	0.75	8.72	4.66	0	1	-16528	0.69	8.72	4.66	0	1
-16527	0.63	8.72	4.66	0	1	-16526	0.56	8.72	4.66	0	1	-16525	0.50	8.72	4.66	0	1
-16524	0.41	8.72	4.66	0	1	-16523	0.32	8.72	4.66	0	1	-16522	0.24	8.72	4.66	0	1
-16521	0.17	8.72	4.66	0	1	-16520	0.09	8.72	4.66	0	1	-16519	0.02	8.72	4.66	0	1
-16518	-0.06	8.72	4.66	0	1	-16517	-0.14	8.72	4.66	0	1	-16516	-0.24	8.72	4.66	0	1
-16515	-0.33	8.72	4.66	0	1	-16514	-0.41	8.72	4.66	0	1	-16513	-0.50	8.72	4.66	0	1
-16512	2.00	9.01	4.66	0	1	-16511	1.92	9.01	4.66	0	1	-16510	1.83	9.01	4.66	0	1
-16509	1.74	9.01	4.66	0	1	-16508	1.66	9.01	4.66	0	1	-16507	1.57	9.01	4.66	0	1
-16506	1.49	9.01	4.66	0	1	-16505	1.41	9.01	4.66	0	1	-16504	1.33	9.01	4.66	0	1
-16503	1.25	9.01	4.66	0	1	-16502	1.17	9.01	4.66	0	1	-16501	1.09	9.01	4.66	0	1
-16500	1.00	9.01	4.66	0	1	-16499	0.94	9.01	4.66	0	1	-16498	0.88	9.01	4.66	0	1
-16497	0.81	9.01	4.66	0	1	-16496	0.75	9.01	4.66	0	1	-16495	0.69	9.01	4.66	0	1
-16494	0.63	9.01	4.66	0	1	-16493	0.56	9.01	4.66	0	1	-16492	0.50	9.01	4.66	0	1
-16491	0.41	9.01	4.66	0	1	-16490	0.33	9.01	4.66	0	1	-16489	0.25	9.01	4.66	0	1
-16488	0.17	9.01	4.66	0	1	-16487	0.09	9.01	4.66	0	1	-16486	0.02	9.01	4.66	0	1
-16485	-0.06	9.01	4.66	0	1	-16484	-0.15	9.01	4.66	0	1	-16483	-0.24	9.01	4.66	0	1
-16482	-0.33	9.01	4.66	0	1	-16481	-0.41	9.01	4.66	0	1	-16480	-0.50	9.01	4.66	0	1
-16479	2.00	8.62	4.66	0	1	-16478	1.91	8.62	4.66	0	1	-16477	1.83	8.62	4.66	0	1
-16476	1.74	8.62	4.66	0	1	-16475	1.65	8.62	4.66	0	1	-16474	1.56	8.62	4.66	0	1
-16473	1.48	8.62	4.66	0	1	-16472	1.41	8.62	4.66	0	1	-16471	1.33	8.62	4.66	0	1
-16470	1.25	8.62	4.66	0	1	-16469	1.17	8.62	4.66	0	1	-16468	1.09	8.62	4.66	0	1
-16467	1.00	8.62	4.66	0	1	-16466	0.94	8.62	4.66	0	1	-16465	0.88	8.62	4.66	0	1
-16464	0.81	8.62	4.66	0	1	-16463	0.75	8.62	4.66	0	1	-16462	0.69	8.62	4.66	0	1
-16461	0.63	8.62	4.66	0	1	-16460	0.56	8.62	4.66	0	1	-16459	0.50	8.62	4.66	0	1
-16458	0.41	8.62	4.66	0	1	-16457	0.33	8.62	4.66	0	1	-16456	0.25	8.62	4.66	0	1
-16455	0.17	8.62	4.66	0	1	-16454	0.09	8.62	4.66	0	1	-16453	0.02	8.62	4.66	0	1
-16452	-0.06	8.62	4.66	0	1	-16451	-0.15	8.62	4.66	0	1	-16450	-0.24	8.62	4.66	0	1
-16449	-0.33	8.62	4.66	0	1	-16448	-0.41	8.62	4.66	0	1	-16447	-0.50	8.62	4.66	0	1
-16446	2.00	9.11	4.66	0	1	-16445	1.92	9.11	4.66	0	1	-16444	1.83	9.11	4.66	0	1
-16443	1.75	9.11	4.66	0	1	-16442	1.66	9.11	4.66	0	1	-16441	1.58	9.11	4.66	0	1
-16440	1.50	9.11	4.66	0	1	-16439	1.41	9.11	4.66	0	1	-16438	1.33	9.11	4.66	0	1
-16437	1.25	9.11	4.66	0	1	-16436	1.17	9.11	4.66	0	1	-16435	1.08	9.11	4.66	0	1
-16434	1.00	9.11	4.66	0	1	-16433	0.94	9.11	4.66	0	1	-16432	0.88	9.11	4.66	0	1
-16431	0.81	9.11	4.66	0	1	-16430	0.75	9.11	4.66	0	1	-16429	0.69	9.11	4.66	0	1
-16428	0.63	9.11	4.66	0	1	-16427	0.56	9.11	4.66	0	1	-16426	0.50	9.11	4.66	0	1
-16425	0.41	9.11	4.66	0	1	-16424	0.33	9.11	4.66	0	1	-16423	0.25	9.11	4.66	0	1
-16422	0.17	9.11	4.66	0	1	-16421	0.09	9.11	4.66	0	1	-16420	0.01	9.11	4.66	0	1
-16419	-0.07	9.11	4.66	0	1	-16418	-0.15	9.11	4.66	0	1	-16417	-0.24	9.11	4.66	0	1
-16416	-0.32	9.11	4.66	0	1	-16415	-0.41	9.11	4.66	0	1	-16414	-0.50	9.11	4.66	0	1
-16413	2.00	8.52	4.66	0	1	-16412	1.91	8.52	4.66	0	1	-16411	1.82	8.52	4.66	0	1
-16410	1.74	8.52	4.66	0	1	-16409	1.65	8.52	4.66	0	1	-16408	1.57	8.52	4.66	0	1
-16407	1.49	8.52	4.66	0	1	-16406	1.41	8.52	4.66	0	1	-16405	1.33	8.52	4.66	0	1
-16404	1.25	8.52	4.66	0	1	-16403	1.17	8.52	4.66	0	1	-16402	1.09	8.52	4.66	0	1
-16401	1.00	8.52	4.66	0	1	-16400	0.94	8.52	4.66	0	1	-16399	0.88	8.52	4.66	0	1
-16398	0.81	8.52	4.66	0	1	-16397	0.75	8.52	4.66	0	1	-16396	0.69	8.52	4.66	0	1
-16395	0.63	8.52	4.66	0	1	-16394	0.56	8.52	4.66	0	1	-16393	0.50	8.52	4.66	0	1
-16392	0.41	8.52	4.66	0	1	-16391	0.33	8.52	4.66	0	1	-16390	0.25	8.52	4.66	0	1
-16389	0.17	8.52	4.66	0	1	-16388	0.09	8.52	4.66	0	1	-16387	0.01	8.52	4.66	0	1
-16386	-0.07	8.52	4.66	0	1	-16385	-0.15	8.52	4.66	0	1	-16384	-0.24	8.52	4.66	0	1
-16383	-0.32	8.52	4.66	0	1	-16382	-0.41	8.52	4.66	0	1	-16381	-0.50	8.52	4.66	0	1

-16380	2.00	9.21	4.65	0	1	-16379	1.92	9.21	4.65	0	1	-16378	1.83	9.21	4.65	0	1
-16377	1.75	9.21	4.65	0	1	-16376	1.66	9.21	4.65	0	1	-16375	1.58	9.21	4.65	0	1
-16374	1.50	9.21	4.65	0	1	-16373	1.42	9.21	4.65	0	1	-16372	1.33	9.21	4.65	0	1
-16371	1.25	9.21	4.65	0	1	-16370	1.17	9.21	4.65	0	1	-16369	1.08	9.21	4.65	0	1
-16368	1.00	9.21	4.65	0	1	-16367	0.94	9.21	4.65	0	1	-16366	0.88	9.21	4.65	0	1
-16365	0.81	9.21	4.65	0	1	-16364	0.75	9.21	4.65	0	1	-16363	0.69	9.21	4.65	0	1
-16362	0.63	9.21	4.65	0	1	-16361	0.56	9.21	4.65	0	1	-16360	0.50	9.21	4.65	0	1
-16359	0.41	9.21	4.65	0	1	-16358	0.33	9.21	4.65	0	1	-16357	0.25	9.21	4.65	0	1
-16356	0.17	9.21	4.65	0	1	-16355	0.09	9.21	4.65	0	1	-16354	0.01	9.21	4.65	0	1
-16353	-0.07	9.21	4.65	0	1	-16352	-0.15	9.21	4.65	0	1	-16351	-0.24	9.21	4.65	0	1
-16350	-0.32	9.21	4.65	0	1	-16349	-0.41	9.21	4.65	0	1	-16348	-0.50	9.21	4.65	0	1
-16347	2.00	8.43	4.65	0	1	-16346	1.91	8.43	4.65	0	1	-16345	1.82	8.43	4.65	0	1
-16344	1.74	8.43	4.65	0	1	-16343	1.65	8.43	4.65	0	1	-16342	1.57	8.43	4.65	0	1
-16341	1.49	8.43	4.65	0	1	-16340	1.41	8.43	4.65	0	1	-16339	1.33	8.43	4.65	0	1
-16338	1.25	8.43	4.65	0	1	-16337	1.17	8.43	4.65	0	1	-16336	1.09	8.43	4.65	0	1
-16335	1.00	8.43	4.65	0	1	-16334	0.94	8.43	4.65	0	1	-16333	0.88	8.43	4.65	0	1
-16332	0.81	8.43	4.65	0	1	-16331	0.75	8.43	4.65	0	1	-16330	0.69	8.43	4.65	0	1
-16329	0.63	8.43	4.65	0	1	-16328	0.56	8.43	4.65	0	1	-16327	0.50	8.43	4.65	0	1
-16326	0.41	8.43	4.65	0	1	-16325	0.33	8.43	4.65	0	1	-16324	0.25	8.43	4.65	0	1
-16323	0.17	8.43	4.65	0	1	-16322	0.09	8.43	4.65	0	1	-16321	0.01	8.43	4.65	0	1
-16320	-0.07	8.43	4.65	0	1	-16319	-0.15	8.43	4.65	0	1	-16318	-0.24	8.43	4.65	0	1
-16317	-0.32	8.43	4.65	0	1	-16316	-0.41	8.43	4.65	0	1	-16315	-0.50	8.43	4.65	0	1
-16314	2.00	9.30	4.65	0	1	-16313	1.92	9.30	4.65	0	1	-16312	1.83	9.30	4.65	0	1
-16311	1.75	9.30	4.65	0	1	-16310	1.67	9.30	4.65	0	1	-16309	1.58	9.30	4.65	0	1
-16308	1.50	9.30	4.65	0	1	-16307	1.42	9.30	4.65	0	1	-16306	1.33	9.30	4.65	0	1
-16305	1.25	9.30	4.65	0	1	-16304	1.17	9.30	4.65	0	1	-16303	1.08	9.30	4.65	0	1
-16302	1.00	9.30	4.65	0	1	-16301	0.94	9.30	4.65	0	1	-16300	0.88	9.30	4.65	0	1
-16299	0.81	9.30	4.65	0	1	-16298	0.75	9.30	4.65	0	1	-16297	0.69	9.30	4.65	0	1
-16296	0.63	9.30	4.65	0	1	-16295	0.56	9.30	4.65	0	1	-16294	0.50	9.30	4.65	0	1
-16293	0.41	9.30	4.65	0	1	-16292	0.33	9.30	4.65	0	1	-16291	0.25	9.30	4.65	0	1
-16290	0.17	9.30	4.65	0	1	-16289	0.09	9.30	4.65	0	1	-16288	0.01	9.30	4.65	0	1
-16287	-0.07	9.30	4.65	0	1	-16286	-0.15	9.30	4.65	0	1	-16285	-0.24	9.30	4.65	0	1
-16284	-0.32	9.30	4.65	0	1	-16283	-0.41	9.30	4.65	0	1	-16282	-0.50	9.30	4.65	0	1
-16281	2.00	8.33	4.65	0	1	-16280	1.91	8.33	4.65	0	1	-16279	1.82	8.33	4.65	0	1
-16278	1.74	8.33	4.65	0	1	-16277	1.65	8.33	4.65	0	1	-16276	1.57	8.33	4.65	0	1
-16275	1.49	8.33	4.65	0	1	-16274	1.41	8.33	4.65	0	1	-16273	1.33	8.33	4.65	0	1
-16272	1.25	8.33	4.65	0	1	-16271	1.17	8.33	4.65	0	1	-16270	1.09	8.33	4.65	0	1
-16269	1.00	8.33	4.65	0	1	-16268	0.94	8.33	4.65	0	1	-16267	0.88	8.33	4.65	0	1
-16266	0.81	8.33	4.65	0	1	-16265	0.75	8.33	4.65	0	1	-16264	0.69	8.33	4.65	0	1
-16263	0.63	8.33	4.65	0	1	-16262	0.56	8.33	4.65	0	1	-16261	0.50	8.33	4.65	0	1
-16260	0.41	8.33	4.65	0	1	-16259	0.33	8.33	4.65	0	1	-16258	0.25	8.33	4.65	0	1
-16257	0.17	8.33	4.65	0	1	-16256	0.09	8.33	4.65	0	1	-16255	0.01	8.33	4.65	0	1
-16254	-0.07	8.33	4.65	0	1	-16253	-0.15	8.33	4.65	0	1	-16252	-0.24	8.33	4.65	0	1
-16251	-0.32	8.33	4.65	0	1	-16250	-0.41	8.33	4.65	0	1	-16249	-0.50	8.33	4.65	0	1
-16248	2.00	9.40	4.65	0	1	-16247	1.92	9.40	4.65	0	1	-16246	1.83	9.40	4.65	0	1
-16245	1.75	9.40	4.65	0	1	-16244	1.66	9.40	4.65	0	1	-16243	1.58	9.40	4.65	0	1
-16242	1.50	9.40	4.65	0	1	-16241	1.42	9.40	4.65	0	1	-16240	1.33	9.40	4.65	0	1
-16239	1.25	9.40	4.65	0	1	-16238	1.17	9.40	4.65	0	1	-16237	1.08	9.40	4.65	0	1
-16236	1.00	9.40	4.65	0	1	-16235	0.94	9.40	4.65	0	1	-16234	0.88	9.40	4.65	0	1
-16233	0.81	9.40	4.65	0	1	-16232	0.75	9.40	4.65	0	1	-16231	0.69	9.40	4.65	0	1
-16230	0.63	9.40	4.65	0	1	-16229	0.56	9.40	4.65	0	1	-16228	0.50	9.40	4.65	0	1
-16227	0.41	9.40	4.65	0	1	-16226	0.33	9.40	4.65	0	1	-16225	0.25	9.40	4.65	0	1
-16224	0.17	9.40	4.65	0	1	-16223	0.09	9.40	4.65	0	1	-16222	0.01	9.40	4.65	0	1
-16221	-0.07	9.40	4.65	0	1	-16220	-0.15	9.40	4.65	0	1	-16219	-0.24	9.40	4.65	0	1
-16218	-0.32	9.40	4.65	0	1	-16217	-0.41	9.40	4.65	0	1	-16216	-0.50	9.40	4.65	0	1
-16215	2.00	8.23	4.65	0	1	-16214	1.91	8.23	4.65	0	1	-16213	1.82	8.23	4.65	0	1
-16212	1.74	8.23	4.65	0	1	-16211	1.65	8.23	4.65	0	1	-16210	1.57	8.23	4.65	0	1
-16209	1.49	8.23	4.65	0	1	-16208	1.41	8.23	4.65	0	1	-16207	1.33	8.23	4.65	0	1
-16206	1.25	8.23	4.65	0	1	-16205	1.17	8.23	4.65	0	1	-16204	1.09	8.23	4.65	0	1
-16203	1.00	8.23	4.65	0	1	-16202	0.94	8.23	4.65	0	1	-16201	0.88	8.23	4.65	0	1
-16200	0.81	8.23	4.65	0	1	-16199	0.75	8.23	4.65	0	1	-16198	0.69	8.23	4.65	0	1
-16197	0.63	8.23	4.65	0	1	-16196	0.56	8.23	4.65	0	1	-16195	0.50	8.23	4.65	0	1
-16194	0.41	8.23	4.65	0	1	-16193	0.33	8.23	4.65	0	1	-16192	0.25	8.23	4.65	0	1
-16191	0.17	8.23	4.65	0	1	-16190	0.09	8.23	4.65	0	1	-16189	0.01	8.23	4.65	0	1
-16188	-0.07	8.23	4.65	0	1	-16187	-0.15	8.23	4.65	0	1	-16186	-0.24	8.23	4.65	0	1
-16185	-0.32	8.23	4.65	0	1	-16184	-0.41	8.23	4.65	0	1	-16183	-0.50	8.23	4.65	0	1
-16182	2.00	9.50	4.65	0	1	-16181	1.92	9.50	4.65	0	1	-16180	1.83	9.50	4.65	0	1
-16179	1.75	9.50	4.65	0	1	-16178	1.66	9.50	4.65	0	1	-16177	1.58	9.50	4.65	0	1
-16176	1.50	9.50	4.65	0	1	-16175	1.41	9.50	4.65	0	1	-16174	1.33	9.50	4.65	0	1
-16173	1.25	9.50	4.65	0	1	-16172	1.17	9.50	4.65	0	1	-16171	1.08	9.50	4.65	0	1
-16170	1.00	9.50	4.65	0	1	-16169	0.94	9.50	4.65	0	1	-16168	0.88	9.50	4.65	0	1
-16167	0.81	9.50	4.65	0	1	-16166	0.75	9.50	4.65	0	1	-16165	0.69	9.50	4.65	0	1
-16164	0.63	9.50	4.65	0	1	-16163	0.56	9.50	4.65	0	1	-16162	0.50	9.50	4.65	0	1
-16161	0.41	9.50	4.65	0	1	-16160	0.33	9.50	4.65	0	1	-16159	0.25	9.50	4.65	0	1
-16158	0.17	9.50	4.65	0	1	-16157	0.09	9.50	4.65	0	1	-16156	0.01	9.50	4.65	0	1
-16155	-0.07	9.50	4.65	0	1	-16154	-0.15	9.50	4.65	0	1	-16153	-0.24	9.50	4.65	0	1
-16152	-0.32	9.50	4.65	0	1	-16151	-0.41	9.50	4.65	0	1	-16150	-0.50	9.50	4.65	0	1
-16149	2.00	8.13	4.65	0	1	-16148	1.91	8.13	4.65	0	1	-16147	1.82	8.13	4.65	0	1
-16146	1.74	8.13	4.65	0	1	-16145	1.65	8.13	4.65	0	1	-16144	1.57	8.13	4.65	0	1

-16143	1.49	8.13	4.65	0	1	-16142	1.41	8.13	4.65	0	1	-16141	1.33	8.13	4.65	0	1
-16140	1.25	8.13	4.65	0	1	-16139	1.17	8.13	4.65	0	1	-16138	1.09	8.13	4.65	0	1
-16137	1.00	8.13	4.65	0	1	-16136	0.94	8.13	4.65	0	1	-16135	0.88	8.13	4.65	0	1
-16134	0.81	8.13	4.65	0	1	-16133	0.75	8.13	4.65	0	1	-16132	0.69	8.13	4.65	0	1
-16131	0.63	8.13	4.65	0	1	-16130	0.56	8.13	4.65	0	1	-16129	0.50	8.13	4.65	0	1
-16128	0.41	8.13	4.65	0	1	-16127	0.33	8.13	4.65	0	1	-16126	0.25	8.13	4.65	0	1
-16125	0.17	8.13	4.65	0	1	-16124	0.09	8.13	4.65	0	1	-16123	0.01	8.13	4.65	0	1
-16122	-0.07	8.13	4.65	0	1	-16121	-0.15	8.13	4.65	0	1	-16120	-0.24	8.13	4.65	0	1
-16119	-0.32	8.13	4.65	0	1	-16118	-0.41	8.13	4.65	0	1	-16117	-0.50	8.13	4.65	0	1
-16116	2.00	9.60	4.65	0	1	-16115	1.92	9.60	4.65	0	1	-16114	1.83	9.60	4.65	0	1
-16113	1.74	9.60	4.65	0	1	-16112	1.66	9.60	4.65	0	1	-16111	1.57	9.60	4.65	0	1
-16110	1.49	9.60	4.65	0	1	-16109	1.41	9.60	4.65	0	1	-16108	1.33	9.60	4.65	0	1
-16107	1.25	9.60	4.65	0	1	-16106	1.17	9.60	4.65	0	1	-16105	1.09	9.60	4.65	0	1
-16104	1.00	9.60	4.65	0	1	-16103	0.94	9.60	4.65	0	1	-16102	0.88	9.60	4.65	0	1
-16101	0.81	9.60	4.65	0	1	-16100	0.75	9.60	4.65	0	1	-16099	0.69	9.60	4.65	0	1
-16098	0.63	9.60	4.65	0	1	-16097	0.56	9.60	4.65	0	1	-16096	0.50	9.60	4.65	0	1
-16095	0.41	9.60	4.65	0	1	-16094	0.33	9.60	4.65	0	1	-16093	0.25	9.60	4.65	0	1
-16092	0.17	9.60	4.65	0	1	-16091	0.09	9.60	4.65	0	1	-16090	0.02	9.60	4.65	0	1
-16089	-0.06	9.60	4.65	0	1	-16088	-0.15	9.60	4.65	0	1	-16087	-0.24	9.60	4.65	0	1
-16086	-0.33	9.60	4.65	0	1	-16085	-0.41	9.60	4.65	0	1	-16084	-0.50	9.60	4.65	0	1
-16083	2.00	8.03	4.65	0	1	-16082	1.91	8.03	4.65	0	1	-16081	1.83	8.03	4.65	0	1
-16080	1.74	8.03	4.65	0	1	-16079	1.65	8.03	4.65	0	1	-16078	1.56	8.03	4.65	0	1
-16077	1.48	8.03	4.65	0	1	-16076	1.41	8.03	4.65	0	1	-16075	1.33	8.03	4.65	0	1
-16074	1.25	8.03	4.65	0	1	-16073	1.17	8.03	4.65	0	1	-16072	1.09	8.03	4.65	0	1
-16071	1.00	8.03	4.65	0	1	-16070	0.94	8.03	4.65	0	1	-16069	0.88	8.03	4.65	0	1
-16068	0.81	8.03	4.65	0	1	-16067	0.75	8.03	4.65	0	1	-16066	0.69	8.03	4.65	0	1
-16065	0.63	8.03	4.65	0	1	-16064	0.56	8.03	4.65	0	1	-16063	0.50	8.03	4.65	0	1
-16062	0.41	8.03	4.65	0	1	-16061	0.33	8.03	4.65	0	1	-16060	0.25	8.03	4.65	0	1
-16059	0.17	8.03	4.65	0	1	-16058	0.09	8.03	4.65	0	1	-16057	0.02	8.03	4.65	0	1
-16056	-0.06	8.03	4.65	0	1	-16055	-0.15	8.03	4.65	0	1	-16054	-0.24	8.03	4.65	0	1
-16053	-0.33	8.03	4.65	0	1	-16052	-0.41	8.03	4.65	0	1	-16051	-0.50	8.03	4.65	0	1
-16050	2.00	9.70	4.65	0	1	-16049	1.92	9.70	4.65	0	1	-16048	1.83	9.70	4.65	0	1
-16047	1.74	9.70	4.65	0	1	-16046	1.65	9.70	4.65	0	1	-16045	1.57	9.70	4.65	0	1
-16044	1.49	9.70	4.65	0	1	-16043	1.41	9.70	4.65	0	1	-16042	1.33	9.70	4.65	0	1
-16041	1.26	9.70	4.65	0	1	-16040	1.18	9.70	4.65	0	1	-16039	1.09	9.70	4.65	0	1
-16038	1.00	9.70	4.65	0	1	-16037	0.94	9.70	4.65	0	1	-16036	0.88	9.70	4.65	0	1
-16035	0.81	9.70	4.65	0	1	-16034	0.75	9.70	4.65	0	1	-16033	0.69	9.70	4.65	0	1
-16032	0.63	9.70	4.65	0	1	-16031	0.56	9.70	4.65	0	1	-16030	0.50	9.70	4.65	0	1
-16029	0.41	9.70	4.65	0	1	-16028	0.32	9.70	4.65	0	1	-16027	0.24	9.70	4.65	0	1
-16026	0.17	9.70	4.65	0	1	-16025	0.09	9.70	4.65	0	1	-16024	0.02	9.70	4.65	0	1
-16023	-0.06	9.70	4.65	0	1	-16022	-0.14	9.70	4.65	0	1	-16021	-0.24	9.70	4.65	0	1
-16020	-0.33	9.70	4.65	0	1	-16019	-0.41	9.70	4.65	0	1	-16018	-0.50	9.70	4.65	0	1
-16017	2.00	7.94	4.65	0	1	-16016	1.91	7.94	4.65	0	1	-16015	1.83	7.94	4.65	0	1
-16014	1.74	7.94	4.65	0	1	-16013	1.64	7.94	4.65	0	1	-16012	1.56	7.94	4.65	0	1
-16011	1.48	7.94	4.65	0	1	-16010	1.41	7.94	4.65	0	1	-16009	1.33	7.94	4.65	0	1
-16008	1.26	7.94	4.65	0	1	-16007	1.18	7.94	4.65	0	1	-16006	1.09	7.94	4.65	0	1
-16005	1.00	7.94	4.65	0	1	-16004	0.94	7.94	4.65	0	1	-16003	0.88	7.94	4.65	0	1
-16002	0.81	7.94	4.65	0	1	-16001	0.75	7.94	4.65	0	1	-16000	0.69	7.94	4.65	0	1
-15999	0.63	7.94	4.65	0	1	-15998	0.56	7.94	4.65	0	1	-15997	0.50	7.94	4.65	0	1
-15996	0.41	7.94	4.65	0	1	-15995	0.32	7.94	4.65	0	1	-15994	0.24	7.94	4.65	0	1
-15993	0.17	7.94	4.65	0	1	-15992	0.09	7.94	4.65	0	1	-15991	0.02	7.94	4.65	0	1
-15990	-0.06	7.94	4.65	0	1	-15989	-0.14	7.94	4.65	0	1	-15988	-0.24	7.94	4.65	0	1
-15987	-0.33	7.94	4.65	0	1	-15986	-0.41	7.94	4.65	0	1	-15985	-0.50	7.94	4.65	0	1
-15984	2.00	9.79	4.64	0	1	-15983	1.92	9.79	4.64	0	1	-15982	1.83	9.79	4.64	0	1
-15981	1.73	9.79	4.64	0	1	-15980	1.64	9.79	4.64	0	1	-15979	1.55	9.79	4.64	0	1
-15978	1.48	9.79	4.64	0	1	-15977	1.40	9.79	4.64	0	1	-15976	1.33	9.79	4.64	0	1
-15975	1.26	9.79	4.64	0	1	-15974	1.19	9.79	4.64	0	1	-15973	1.09	9.79	4.64	0	1
-15972	1.00	9.79	4.64	0	1	-15971	0.94	9.79	4.64	0	1	-15970	0.88	9.79	4.64	0	1
-15969	0.81	9.79	4.64	0	1	-15968	0.75	9.79	4.64	0	1	-15967	0.69	9.79	4.64	0	1
-15966	0.63	9.79	4.64	0	1	-15965	0.56	9.79	4.64	0	1	-15964	0.50	9.79	4.64	0	1
-15963	0.41	9.79	4.64	0	1	-15962	0.31	9.79	4.64	0	1	-15961	0.24	9.79	4.64	0	1
-15960	0.17	9.79	4.64	0	1	-15959	0.10	9.79	4.64	0	1	-15958	0.03	9.79	4.64	0	1
-15957	-0.06	9.79	4.64	0	1	-15956	-0.14	9.79	4.64	0	1	-15955	-0.23	9.79	4.64	0	1
-15954	-0.33	9.79	4.64	0	1	-15953	-0.42	9.79	4.64	0	1	-15952	-0.50	9.79	4.64	0	1
-15951	2.00	7.84	4.64	0	1	-15950	1.92	7.84	4.64	0	1	-15949	1.83	7.84	4.64	0	1
-15948	1.73	7.84	4.64	0	1	-15947	1.64	7.84	4.64	0	1	-15946	1.55	7.84	4.64	0	1
-15945	1.48	7.84	4.64	0	1	-15944	1.40	7.84	4.64	0	1	-15943	1.33	7.84	4.64	0	1
-15942	1.26	7.84	4.64	0	1	-15941	1.19	7.84	4.64	0	1	-15940	1.09	7.84	4.64	0	1
-15939	1.00	7.84	4.64	0	1	-15938	0.94	7.84	4.64	0	1	-15937	0.88	7.84	4.64	0	1
-15936	0.81	7.84	4.64	0	1	-15935	0.75	7.84	4.64	0	1	-15934	0.69	7.84	4.64	0	1
-15933	0.63	7.84	4.64	0	1	-15932	0.56	7.84	4.64	0	1	-15931	0.50	7.84	4.64	0	1
-15930	0.41	7.84	4.64	0	1	-15929	0.31	7.84	4.64	0	1	-15928	0.24	7.84	4.64	0	1
-15927	0.17	7.84	4.64	0	1	-15926	0.10	7.84	4.64	0	1	-15925	0.03	7.84	4.64	0	1
-15924	-0.06	7.84	4.64	0	1	-15923	-0.14	7.84	4.64	0	1	-15922	-0.23	7.84	4.64	0	1
-15921	-0.33	7.84	4.64	0	1	-15920	-0.42	7.84	4.64	0	1	-15919	-0.50	7.84	4.64	0	1
-15918	2.00	9.89	4.64	0	1	-15917	1.91	9.89	4.64	0	1	-15916	1.83	9.89	4.64	0	1
-15915	1.74	9.89	4.64	0	1	-15914	1.64	9.89	4.64	0	1	-15913	1.56	9.89	4.64	0	1
-15912	1.48	9.89	4.64	0	1	-15911	1.41	9.89	4.64	0	1	-15910	1.33	9.89	4.64	0	1
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-15906	1.00	9.89	4.64	0	1	-15905	0.94	9.89	4.64	0	1	-15904	0.88	9.89	4.64	0	1
-15903	0.81	9.89	4.64	0	1	-15902	0.75	9.89	4.64	0	1	-15901	0.69	9.89	4.64	0	1
-15900	0.63	9.89	4.64	0	1	-15899	0.56	9.89	4.64	0	1	-15898	0.50	9.89	4.64	0	1
-15897	0.41	9.89	4.64	0	1	-15896	0.32	9.89	4.64	0	1	-15895	0.24	9.89	4.64	0	1
-15894	0.17	9.89	4.64	0	1	-15893	0.09	9.89	4.64	0	1	-15892	0.02	9.89	4.64	0	1
-15891	-0.06	9.89	4.64	0	1	-15890	-0.14	9.89	4.64	0	1	-15889	-0.24	9.89	4.64	0	1
-15888	-0.33	9.89	4.64	0	1	-15887	-0.41	9.89	4.64	0	1	-15886	-0.50	9.89	4.64	0	1
-15885	-0.23	8.82	4.64	0	1	-15884	2.00	7.74	4.64	0	1	-15883	1.91	7.74	4.64	0	1
-15882	1.83	7.74	4.64	0	1	-15881	1.74	7.74	4.64	0	1	-15880	1.64	7.74	4.64	0	1
-15879	1.56	7.74	4.64	0	1	-15878	1.48	7.74	4.64	0	1	-15877	1.41	7.74	4.64	0	1
-15876	1.33	7.74	4.64	0	1	-15875	1.26	7.74	4.64	0	1	-15874	1.18	7.74	4.64	0	1
-15873	1.09	7.74	4.64	0	1	-15872	1.00	7.74	4.64	0	1	-15871	0.94	7.74	4.64	0	1
-15870	0.88	7.74	4.64	0	1	-15869	0.81	7.74	4.64	0	1	-15868	0.75	7.74	4.64	0	1
-15867	0.69	7.74	4.64	0	1	-15866	0.63	7.74	4.64	0	1	-15865	0.56	7.74	4.64	0	1
-15864	0.50	7.74	4.64	0	1	-15863	0.41	7.74	4.64	0	1	-15862	0.32	7.74	4.64	0	1
-15861	0.24	7.74	4.64	0	1	-15860	0.17	7.74	4.64	0	1	-15859	0.09	7.74	4.64	0	1
-15858	0.02	7.74	4.64	0	1	-15857	-0.06	7.74	4.64	0	1	-15856	-0.14	7.74	4.64	0	1
-15855	-0.24	7.74	4.64	0	1	-15854	-0.33	7.74	4.64	0	1	-15853	-0.41	7.74	4.64	0	1
-15852	-0.50	7.74	4.64	0	1	-15851	2.00	9.99	4.64	0	1	-15850	1.91	9.99	4.64	0	1
-15849	1.83	9.99	4.64	0	1	-15848	1.74	9.99	4.64	0	1	-15847	1.65	9.99	4.64	0	1
-15846	1.56	9.99	4.64	0	1	-15845	1.48	9.99	4.64	0	1	-15844	1.41	9.99	4.64	0	1
-15843	1.33	9.99	4.64	0	1	-15842	1.25	9.99	4.64	0	1	-15841	1.17	9.99	4.64	0	1
-15840	1.09	9.99	4.64	0	1	-15839	1.00	9.99	4.64	0	1	-15838	0.94	9.99	4.64	0	1
-15837	0.88	9.99	4.64	0	1	-15836	0.81	9.99	4.64	0	1	-15835	0.75	9.99	4.64	0	1
-15834	0.69	9.99	4.64	0	1	-15833	0.63	9.99	4.64	0	1	-15832	0.56	9.99	4.64	0	1
-15831	0.50	9.99	4.64	0	1	-15830	0.41	9.99	4.64	0	1	-15829	0.33	9.99	4.64	0	1
-15828	0.25	9.99	4.64	0	1	-15827	0.17	9.99	4.64	0	1	-15826	0.09	9.99	4.64	0	1
-15825	0.02	9.99	4.64	0	1	-15824	-0.06	9.99	4.64	0	1	-15823	-0.15	9.99	4.64	0	1
-15822	-0.24	9.99	4.64	0	1	-15821	-0.33	9.99	4.64	0	1	-15820	-0.41	9.99	4.64	0	1
-15819	-0.50	9.99	4.64	0	1	-15818	2.00	7.64	4.64	0	1	-15817	1.91	7.64	4.64	0	1
-15816	1.83	7.64	4.64	0	1	-15815	1.74	7.64	4.64	0	1	-15814	1.65	7.64	4.64	0	1
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-15810	1.33	7.64	4.64	0	1	-15809	1.25	7.64	4.64	0	1	-15808	1.17	7.64	4.64	0	1
-15807	1.09	7.64	4.64	0	1	-15806	1.00	7.64	4.64	0	1	-15805	0.94	7.64	4.64	0	1
-15804	0.88	7.64	4.64	0	1	-15803	0.81	7.64	4.64	0	1	-15802	0.75	7.64	4.64	0	1
-15801	0.69	7.64	4.64	0	1	-15800	0.63	7.64	4.64	0	1	-15799	0.56	7.64	4.64	0	1
-15798	0.50	7.64	4.64	0	1	-15797	0.41	7.64	4.64	0	1	-15796	0.33	7.64	4.64	0	1
-15795	0.25	7.64	4.64	0	1	-15794	0.17	7.64	4.64	0	1	-15793	0.09	7.64	4.64	0	1
-15792	0.02	7.64	4.64	0	1	-15791	-0.06	7.64	4.64	0	1	-15790	-0.15	7.64	4.64	0	1
-15789	-0.24	7.64	4.64	0	1	-15788	-0.33	7.64	4.64	0	1	-15787	-0.41	7.64	4.64	0	1
-15786	-0.50	7.64	4.64	0	1	-15785	2.00	10.09	4.64	0	1	-15784	1.91	10.09	4.64	0	1
-15783	1.82	10.09	4.64	0	1	-15782	1.74	10.09	4.64	0	1	-15781	1.65	10.09	4.64	0	1
-15780	1.57	10.09	4.64	0	1	-15779	1.49	10.09	4.64	0	1	-15778	1.41	10.09	4.64	0	1
-15777	1.33	10.09	4.64	0	1	-15776	1.25	10.09	4.64	0	1	-15775	1.17	10.09	4.64	0	1
-15774	1.09	10.09	4.64	0	1	-15773	1.00	10.09	4.64	0	1	-15772	0.94	10.09	4.64	0	1
-15771	0.88	10.09	4.64	0	1	-15770	0.81	10.09	4.64	0	1	-15769	0.75	10.09	4.64	0	1
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-15762	0.25	10.09	4.64	0	1	-15761	0.17	10.09	4.64	0	1	-15760	0.09	10.09	4.64	0	1
-15759	0.01	10.09	4.64	0	1	-15758	-0.07	10.09	4.64	0	1	-15757	-0.15	10.09	4.64	0	1
-15756	-0.24	10.09	4.64	0	1	-15755	-0.32	10.09	4.64	0	1	-15754	-0.41	10.09	4.64	0	1
-15753	-0.50	10.09	4.64	0	1	-15752	2.00	7.55	4.64	0	1	-15751	1.91	7.55	4.64	0	1
-15750	1.82	7.55	4.64	0	1	-15749	1.74	7.55	4.64	0	1	-15748	1.65	7.55	4.64	0	1
-15747	1.57	7.55	4.64	0	1	-15746	1.49	7.55	4.64	0	1	-15745	1.41	7.55	4.64	0	1
-15744	1.33	7.55	4.64	0	1	-15743	1.25	7.55	4.64	0	1	-15742	1.17	7.55	4.64	0	1
-15741	1.09	7.55	4.64	0	1	-15740	1.00	7.55	4.64	0	1	-15739	0.94	7.55	4.64	0	1
-15738	0.88	7.55	4.64	0	1	-15737	0.81	7.55	4.64	0	1	-15736	0.75	7.55	4.64	0	1
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-15732	0.50	7.55	4.64	0	1	-15731	0.41	7.55	4.64	0	1	-15730	0.33	7.55	4.64	0	1
-15729	0.25	7.55	4.64	0	1	-15728	0.17	7.55	4.64	0	1	-15727	0.09	7.55	4.64	0	1
-15726	0.01	7.55	4.64	0	1	-15725	-0.07	7.55	4.64	0	1	-15724	-0.15	7.55	4.64	0	1
-15723	-0.24	7.55	4.64	0	1	-15722	-0.32	7.55	4.64	0	1	-15721	-0.41	7.55	4.64	0	1
-15720	-0.50	7.55	4.64	0	1	-15719	2.00	10.18	4.64	0	1	-15718	1.91	10.18	4.64	0	1
-15717	1.82	10.18	4.64	0	1	-15716	1.74	10.18	4.64	0	1	-15715	1.65	10.18	4.64	0	1
-15714	1.57	10.18	4.64	0	1	-15713	1.49	10.18	4.64	0	1	-15712	1.41	10.18	4.64	0	1
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-15702	0.69	10.18	4.64	0	1	-15701	0.63	10.18	4.64	0	1	-15700	0.56	10.18	4.64	0	1
-15699	0.50	10.18	4.64	0	1	-15698	0.41	10.18	4.64	0	1	-15697	0.33	10.18	4.64	0	1
-15696	0.25	10.18	4.64	0	1	-15695	0.17	10.18	4.64	0	1	-15694	0.09	10.18	4.64	0	1
-15693	0.01	10.18	4.64	0	1	-15692	-0.07	10.18	4.64	0	1	-15691	-0.15	10.18	4.64	0	1
-15690	-0.24	10.18	4.64	0	1	-15689	-0.32	10.18	4.64	0	1	-15688	-0.41	10.18	4.64	0	1
-15687	-0.50	10.18	4.64	0	1	-15686	2.00	7.45	4.64	0	1	-15685	1.91	7.45	4.64	0	1
-15684	1.82	7.45	4.64	0	1	-15683	1.74	7.45	4.64	0	1	-15682	1.65	7.45	4.64	0	1
-15681	1.57	7.45	4.64	0	1	-15680	1.49	7.45	4.64	0	1	-15679	1.41	7.45	4.64	0	1
-15678	1.33	7.45	4.64	0	1	-15677	1.25	7.45	4.64	0	1	-15676	1.17	7.45	4.64	0	1
-15675	1.09	7.45	4.64	0	1	-15674	1.00	7.45	4.64	0	1	-15673	0.94	7.45	4.64	0	1
-15672	0.88	7.45	4.64	0	1	-15671	0.81	7.45	4.64	0	1	-15670	0.75	7.45	4.64	0	1

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-15666	0.50	7.45	4.64	0	1	-15665	0.41	7.45	4.64	0	1	-15664	0.33	7.45	4.64	0	1
-15663	0.25	7.45	4.64	0	1	-15662	0.17	7.45	4.64	0	1	-15661	0.09	7.45	4.64	0	1
-15660	0.01	7.45	4.64	0	1	-15659	-0.07	7.45	4.64	0	1	-15658	-0.15	7.45	4.64	0	1
-15657	-0.24	7.45	4.64	0	1	-15656	-0.32	7.45	4.64	0	1	-15655	-0.41	7.45	4.64	0	1
-15654	-0.50	7.45	4.64	0	1	-15653	2.00	10.28	4.64	0	1	-15652	1.91	10.28	4.64	0	1
-15651	1.82	10.28	4.64	0	1	-15650	1.74	10.28	4.64	0	1	-15649	1.65	10.28	4.64	0	1
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-15645	1.33	10.28	4.64	0	1	-15644	1.25	10.28	4.64	0	1	-15643	1.17	10.28	4.64	0	1
-15642	1.09	10.28	4.64	0	1	-15641	1.00	10.28	4.64	0	1	-15640	0.94	10.28	4.64	0	1
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-15633	0.50	10.28	4.64	0	1	-15632	0.41	10.28	4.64	0	1	-15631	0.33	10.28	4.64	0	1
-15630	0.25	10.28	4.64	0	1	-15629	0.17	10.28	4.64	0	1	-15628	0.09	10.28	4.64	0	1
-15627	0.01	10.28	4.64	0	1	-15626	-0.07	10.28	4.64	0	1	-15625	-0.15	10.28	4.64	0	1
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-15621	-0.50	10.28	4.64	0	1	-15620	2.00	7.35	4.64	0	1	-15619	1.91	7.35	4.64	0	1
-15618	1.82	7.35	4.64	0	1	-15617	1.74	7.35	4.64	0	1	-15616	1.65	7.35	4.64	0	1
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-15612	1.33	7.35	4.64	0	1	-15611	1.25	7.35	4.64	0	1	-15610	1.17	7.35	4.64	0	1
-15609	1.09	7.35	4.64	0	1	-15608	1.00	7.35	4.64	0	1	-15607	0.94	7.35	4.64	0	1
-15606	0.88	7.35	4.64	0	1	-15605	0.81	7.35	4.64	0	1	-15604	0.75	7.35	4.64	0	1
-15603	0.69	7.35	4.64	0	1	-15602	0.63	7.35	4.64	0	1	-15601	0.56	7.35	4.64	0	1
-15600	0.50	7.35	4.64	0	1	-15599	0.41	7.35	4.64	0	1	-15598	0.33	7.35	4.64	0	1
-15597	0.25	7.35	4.64	0	1	-15596	0.17	7.35	4.64	0	1	-15595	0.09	7.35	4.64	0	1
-15594	0.01	7.35	4.64	0	1	-15593	-0.07	7.35	4.64	0	1	-15592	-0.15	7.35	4.64	0	1
-15591	-0.24	7.35	4.64	0	1	-15590	-0.32	7.35	4.64	0	1	-15589	-0.41	7.35	4.64	0	1
-15588	-0.50	7.35	4.64	0	1	-15587	2.00	10.38	4.64	0	1	-15586	1.91	10.38	4.64	0	1
-15585	1.82	10.38	4.64	0	1	-15584	1.74	10.38	4.64	0	1	-15583	1.65	10.38	4.64	0	1
-15582	1.57	10.38	4.64	0	1	-15581	1.49	10.38	4.64	0	1	-15580	1.41	10.38	4.64	0	1
-15579	1.33	10.38	4.64	0	1	-15578	1.25	10.38	4.64	0	1	-15577	1.17	10.38	4.64	0	1
-15576	1.09	10.38	4.64	0	1	-15575	1.00	10.38	4.64	0	1	-15574	0.94	10.38	4.64	0	1
-15573	0.88	10.38	4.64	0	1	-15572	0.81	10.38	4.64	0	1	-15571	0.75	10.38	4.64	0	1
-15570	0.69	10.38	4.64	0	1	-15569	0.63	10.38	4.64	0	1	-15568	0.56	10.38	4.64	0	1
-15567	0.50	10.38	4.64	0	1	-15566	0.41	10.38	4.64	0	1	-15565	0.33	10.38	4.64	0	1
-15564	0.25	10.38	4.64	0	1	-15563	0.17	10.38	4.64	0	1	-15562	0.09	10.38	4.64	0	1
-15561	0.01	10.38	4.64	0	1	-15560	-0.07	10.38	4.64	0	1	-15559	-0.15	10.38	4.64	0	1
-15558	-0.24	10.38	4.64	0	1	-15557	-0.32	10.38	4.64	0	1	-15556	-0.41	10.38	4.64	0	1
-15555	-0.50	10.38	4.64	0	1	-15554	2.00	7.25	4.64	0	1	-15553	1.91	7.25	4.64	0	1
-15552	1.82	7.25	4.64	0	1	-15551	1.74	7.25	4.64	0	1	-15550	1.65	7.25	4.64	0	1
-15549	1.57	7.25	4.64	0	1	-15548	1.49	7.25	4.64	0	1	-15547	1.41	7.25	4.64	0	1
-15546	1.33	7.25	4.64	0	1	-15545	1.25	7.25	4.64	0	1	-15544	1.17	7.25	4.64	0	1
-15543	1.09	7.25	4.64	0	1	-15542	1.00	7.25	4.64	0	1	-15541	0.94	7.25	4.64	0	1
-15540	0.88	7.25	4.64	0	1	-15539	0.81	7.25	4.64	0	1	-15538	0.75	7.25	4.64	0	1
-15537	0.69	7.25	4.64	0	1	-15536	0.63	7.25	4.64	0	1	-15535	0.56	7.25	4.64	0	1
-15534	0.50	7.25	4.64	0	1	-15533	0.41	7.25	4.64	0	1	-15532	0.33	7.25	4.64	0	1
-15531	0.25	7.25	4.64	0	1	-15530	0.17	7.25	4.64	0	1	-15529	0.09	7.25	4.64	0	1
-15528	0.01	7.25	4.64	0	1	-15527	-0.07	7.25	4.64	0	1	-15526	-0.15	7.25	4.64	0	1
-15525	-0.24	7.25	4.64	0	1	-15524	-0.32	7.25	4.64	0	1	-15523	-0.41	7.25	4.64	0	1
-15522	-0.50	7.25	4.64	0	1	-15521	2.00	10.48	4.63	0	1	-15520	1.91	10.48	4.63	0	1
-15519	1.82	10.48	4.63	0	1	-15518	1.74	10.48	4.63	0	1	-15517	1.65	10.48	4.63	0	1
-15516	1.57	10.48	4.63	0	1	-15515	1.49	10.48	4.63	0	1	-15514	1.41	10.48	4.63	0	1
-15513	1.33	10.48	4.63	0	1	-15512	1.25	10.48	4.63	0	1	-15511	1.17	10.48	4.63	0	1
-15510	1.09	10.48	4.63	0	1	-15509	1.00	10.48	4.63	0	1	-15508	0.94	10.48	4.63	0	1
-15507	0.88	10.48	4.63	0	1	-15506	0.81	10.48	4.63	0	1	-15505	0.75	10.48	4.63	0	1
-15504	0.69	10.48	4.63	0	1	-15503	0.63	10.48	4.63	0	1	-15502	0.56	10.48	4.63	0	1
-15501	0.50	10.48	4.63	0	1	-15500	0.41	10.48	4.63	0	1	-15499	0.33	10.48	4.63	0	1
-15498	0.25	10.48	4.63	0	1	-15497	0.17	10.48	4.63	0	1	-15496	0.09	10.48	4.63	0	1
-15495	0.01	10.48	4.63	0	1	-15494	-0.07	10.48	4.63	0	1	-15493	-0.15	10.48	4.63	0	1
-15492	-0.24	10.48	4.63	0	1	-15491	-0.32	10.48	4.63	0	1	-15490	-0.41	10.48	4.63	0	1
-15489	-0.50	10.48	4.63	0	1	-15488	2.00	7.15	4.63	0	1	-15487	1.91	7.15	4.63	0	1
-15486	1.82	7.15	4.63	0	1	-15485	1.74	7.15	4.63	0	1	-15484	1.65	7.15	4.63	0	1
-15483	1.57	7.15	4.63	0	1	-15482	1.49	7.15	4.63	0	1	-15481	1.41	7.15	4.63	0	1
-15480	1.33	7.15	4.63	0	1	-15479	1.25	7.15	4.63	0	1	-15478	1.17	7.15	4.63	0	1
-15477	1.09	7.15	4.63	0	1	-15476	1.00	7.15	4.63	0	1	-15475	0.94	7.15	4.63	0	1
-15474	0.88	7.15	4.63	0	1	-15473	0.81	7.15	4.63	0	1	-15472	0.75	7.15	4.63	0	1
-15471	0.69	7.15	4.63	0	1	-15470	0.63	7.15	4.63	0	1	-15469	0.56	7.15	4.63	0	1
-15468	0.50	7.15	4.63	0	1	-15467	0.41	7.15	4.63	0	1	-15466	0.33	7.15	4.63	0	1
-15465	0.25	7.15	4.63	0	1	-15464	0.17	7.15	4.63	0	1	-15463	0.09	7.15	4.63	0	1
-15462	0.01	7.15	4.63	0	1	-15461	-0.07	7.15	4.63	0	1	-15460	-0.15	7.15	4.63	0	1
-15459	-0.24	7.15	4.63	0	1	-15458	-0.32	7.15	4.63	0	1	-15457	-0.41	7.15	4.63	0	1
-15456	-0.50	7.15	4.63	0	1	-15455	2.00	10.58	4.63	0	1	-15454	1.91	10.58	4.63	0	1
-15453	1.83	10.58	4.63	0	1	-15452	1.74	10.58	4.63	0	1	-15451	1.65	10.58	4.63	0	1
-15450	1.56	10.58	4.63	0	1	-15449	1.48	10.58	4.63	0	1	-15448	1.41	10.58	4.63	0	1
-15447	1.33	10.58	4.63	0	1	-15446	1.25	10.58	4.63	0	1	-15445	1.17	10.58	4.63	0	1
-15444	1.09	10.58	4.63	0	1	-15443	1.00	10.58	4.63	0	1	-15442	0.94	10.58	4.63	0	1
-15441	0.88	10.58	4.63	0	1	-15440	0.81	10.58	4.63	0	1	-15439	0.75	10.58	4.63	0	1
-15438	0.69	10.58	4.63	0	1	-15437	0.63	10.58	4.63	0	1	-15436	0.56	10.58	4.63	0	1
-15435	0.50	10.58	4.63	0	1	-15434	0.41	10.58	4.63	0	1	-15433	0.33	10.58	4.63	0	1

-15432	0.25	10.58	4.63	0	1	-15431	0.17	10.58	4.63	0	1	-15430	0.09	10.58	4.63	0	1
-15429	0.02	10.58	4.63	0	1	-15428	-0.06	10.58	4.63	0	1	-15427	-0.15	10.58	4.63	0	1
-15426	-0.24	10.58	4.63	0	1	-15425	-0.33	10.58	4.63	0	1	-15424	-0.41	10.58	4.63	0	1
-15423	-0.50	10.58	4.63	0	1	-15422	2.00	7.06	4.63	0	1	-15421	1.91	7.06	4.63	0	1
-15420	1.83	7.06	4.63	0	1	-15419	1.74	7.06	4.63	0	1	-15418	1.65	7.06	4.63	0	1
-15417	1.56	7.06	4.63	0	1	-15416	1.48	7.06	4.63	0	1	-15415	1.41	7.06	4.63	0	1
-15414	1.33	7.06	4.63	0	1	-15413	1.25	7.06	4.63	0	1	-15412	1.17	7.06	4.63	0	1
-15411	1.09	7.06	4.63	0	1	-15410	1.00	7.06	4.63	0	1	-15409	0.94	7.06	4.63	0	1
-15408	0.88	7.06	4.63	0	1	-15407	0.81	7.06	4.63	0	1	-15406	0.75	7.06	4.63	0	1
-15405	0.69	7.06	4.63	0	1	-15404	0.63	7.06	4.63	0	1	-15403	0.56	7.06	4.63	0	1
-15402	0.50	7.06	4.63	0	1	-15401	0.41	7.06	4.63	0	1	-15400	0.33	7.06	4.63	0	1
-15399	0.25	7.06	4.63	0	1	-15398	0.17	7.06	4.63	0	1	-15397	0.09	7.06	4.63	0	1
-15396	0.02	7.06	4.63	0	1	-15395	-0.06	7.06	4.63	0	1	-15394	-0.15	7.06	4.63	0	1
-15393	-0.24	7.06	4.63	0	1	-15392	-0.33	7.06	4.63	0	1	-15391	-0.41	7.06	4.63	0	1
-15390	-0.50	7.06	4.63	0	1	-15389	2.00	10.67	4.63	0	1	-15388	1.91	10.67	4.63	0	1
-15387	1.83	10.67	4.63	0	1	-15386	1.74	10.67	4.63	0	1	-15385	1.64	10.67	4.63	0	1
-15384	1.56	10.67	4.63	0	1	-15383	1.48	10.67	4.63	0	1	-15382	1.41	10.67	4.63	0	1
-15381	1.33	10.67	4.63	0	1	-15380	1.26	10.67	4.63	0	1	-15379	1.18	10.67	4.63	0	1
-15378	1.09	10.67	4.63	0	1	-15377	1.00	10.67	4.63	0	1	-15376	0.94	10.67	4.63	0	1
-15375	0.88	10.67	4.63	0	1	-15374	0.81	10.67	4.63	0	1	-15373	0.75	10.67	4.63	0	1
-15372	0.69	10.67	4.63	0	1	-15371	0.63	10.67	4.63	0	1	-15370	0.56	10.67	4.63	0	1
-15369	0.50	10.67	4.63	0	1	-15368	0.41	10.67	4.63	0	1	-15367	0.32	10.67	4.63	0	1
-15366	0.24	10.67	4.63	0	1	-15365	0.17	10.67	4.63	0	1	-15364	0.09	10.67	4.63	0	1
-15363	0.02	10.67	4.63	0	1	-15362	-0.06	10.67	4.63	0	1	-15361	-0.14	10.67	4.63	0	1
-15360	-0.24	10.67	4.63	0	1	-15359	-0.33	10.67	4.63	0	1	-15358	-0.41	10.67	4.63	0	1
-15357	-0.50	10.67	4.63	0	1	-15356	2.00	6.96	4.63	0	1	-15355	1.91	6.96	4.63	0	1
-15354	1.83	6.96	4.63	0	1	-15353	1.74	6.96	4.63	0	1	-15352	1.64	6.96	4.63	0	1
-15351	1.56	6.96	4.63	0	1	-15350	1.48	6.96	4.63	0	1	-15349	1.41	6.96	4.63	0	1
-15348	1.33	6.96	4.63	0	1	-15347	1.26	6.96	4.63	0	1	-15346	1.18	6.96	4.63	0	1
-15345	1.09	6.96	4.63	0	1	-15344	1.00	6.96	4.63	0	1	-15343	0.94	6.96	4.63	0	1
-15342	0.88	6.96	4.63	0	1	-15341	0.81	6.96	4.63	0	1	-15340	0.75	6.96	4.63	0	1
-15339	0.69	6.96	4.63	0	1	-15338	0.63	6.96	4.63	0	1	-15337	0.56	6.96	4.63	0	1
-15336	0.50	6.96	4.63	0	1	-15335	0.41	6.96	4.63	0	1	-15334	0.32	6.96	4.63	0	1
-15333	0.24	6.96	4.63	0	1	-15332	0.17	6.96	4.63	0	1	-15331	0.09	6.96	4.63	0	1
-15330	0.02	6.96	4.63	0	1	-15329	-0.06	6.96	4.63	0	1	-15328	-0.14	6.96	4.63	0	1
-15327	-0.24	6.96	4.63	0	1	-15326	-0.33	6.96	4.63	0	1	-15325	-0.41	6.96	4.63	0	1
-15324	-0.50	6.96	4.63	0	1	-15323	2.00	10.77	4.63	0	1	-15322	1.92	10.77	4.63	0	1
-15321	1.83	10.77	4.63	0	1	-15320	1.73	10.77	4.63	0	1	-15319	1.64	10.77	4.63	0	1
-15318	1.55	10.77	4.63	0	1	-15317	1.48	10.77	4.63	0	1	-15316	1.40	10.77	4.63	0	1
-15315	1.33	10.77	4.63	0	1	-15314	1.26	10.77	4.63	0	1	-15313	1.19	10.77	4.63	0	1
-15312	1.09	10.77	4.63	0	1	-15311	1.00	10.77	4.63	0	1	-15310	0.94	10.77	4.63	0	1
-15309	0.88	10.77	4.63	0	1	-15308	0.81	10.77	4.63	0	1	-15307	0.75	10.77	4.63	0	1
-15306	0.69	10.77	4.63	0	1	-15305	0.63	10.77	4.63	0	1	-15304	0.56	10.77	4.63	0	1
-15303	0.50	10.77	4.63	0	1	-15302	0.41	10.77	4.63	0	1	-15301	0.31	10.77	4.63	0	1
-15300	0.24	10.77	4.63	0	1	-15299	0.17	10.77	4.63	0	1	-15298	0.10	10.77	4.63	0	1
-15297	0.03	10.77	4.63	0	1	-15296	-0.06	10.77	4.63	0	1	-15295	-0.14	10.77	4.63	0	1
-15294	-0.23	10.77	4.63	0	1	-15293	-0.33	10.77	4.63	0	1	-15292	-0.42	10.77	4.63	0	1
-15291	-0.50	10.77	4.63	0	1	-15290	2.00	6.86	4.63	0	1	-15289	1.92	6.86	4.63	0	1
-15288	1.83	6.86	4.63	0	1	-15287	1.73	6.86	4.63	0	1	-15286	1.64	6.86	4.63	0	1
-15285	1.55	6.86	4.63	0	1	-15284	1.48	6.86	4.63	0	1	-15283	1.40	6.86	4.63	0	1
-15282	1.33	6.86	4.63	0	1	-15281	1.26	6.86	4.63	0	1	-15280	1.19	6.86	4.63	0	1
-15279	1.09	6.86	4.63	0	1	-15278	1.00	6.86	4.63	0	1	-15277	0.94	6.86	4.63	0	1
-15276	0.88	6.86	4.63	0	1	-15275	0.81	6.86	4.63	0	1	-15274	0.75	6.86	4.63	0	1
-15273	0.69	6.86	4.63	0	1	-15272	0.63	6.86	4.63	0	1	-15271	0.56	6.86	4.63	0	1
-15270	0.50	6.86	4.63	0	1	-15269	0.41	6.86	4.63	0	1	-15268	0.31	6.86	4.63	0	1
-15267	0.24	6.86	4.63	0	1	-15266	0.17	6.86	4.63	0	1	-15265	0.10	6.86	4.63	0	1
-15264	0.03	6.86	4.63	0	1	-15263	-0.06	6.86	4.63	0	1	-15262	-0.14	6.86	4.63	0	1
-15261	-0.23	6.86	4.63	0	1	-15260	-0.33	6.86	4.63	0	1	-15259	-0.42	6.86	4.63	0	1
-15258	-0.50	6.86	4.63	0	1	-15257	2.00	10.87	4.63	0	1	-15256	1.91	10.87	4.63	0	1
-15255	1.83	10.87	4.63	0	1	-15254	1.74	10.87	4.63	0	1	-15253	1.64	10.87	4.63	0	1
-15252	1.56	10.87	4.63	0	1	-15251	1.48	10.87	4.63	0	1	-15250	1.41	10.87	4.63	0	1
-15249	1.33	10.87	4.63	0	1	-15248	1.26	10.87	4.63	0	1	-15247	1.18	10.87	4.63	0	1
-15246	1.09	10.87	4.63	0	1	-15245	1.00	10.87	4.63	0	1	-15244	0.94	10.87	4.63	0	1
-15243	0.88	10.87	4.63	0	1	-15242	0.81	10.87	4.63	0	1	-15241	0.75	10.87	4.63	0	1
-15240	0.69	10.87	4.63	0	1	-15239	0.63	10.87	4.63	0	1	-15238	0.56	10.87	4.63	0	1
-15237	0.50	10.87	4.63	0	1	-15236	0.41	10.87	4.63	0	1	-15235	0.32	10.87	4.63	0	1
-15234	0.24	10.87	4.63	0	1	-15233	0.17	10.87	4.63	0	1	-15232	0.09	10.87	4.63	0	1
-15231	0.02	10.87	4.63	0	1	-15230	-0.06	10.87	4.63	0	1	-15229	-0.14	10.87	4.63	0	1
-15228	-0.24	10.87	4.63	0	1	-15227	-0.33	10.87	4.63	0	1	-15226	-0.41	10.87	4.63	0	1
-15225	-0.50	10.87	4.63	0	1	-15224	-0.23	9.79	4.63	0	1	-15223	2.00	6.76	4.63	0	1
-15222	1.91	6.76	4.63	0	1	-15221	1.83	6.76	4.63	0	1	-15220	1.74	6.76	4.63	0	1
-15219	1.64	6.76	4.63	0	1	-15218	1.56	6.76	4.63	0	1	-15217	1.48	6.76	4.63	0	1
-15216	1.41	6.76	4.63	0	1	-15215	1.33	6.76	4.63	0	1	-15214	1.26	6.76	4.63	0	1
-15213	1.18	6.76	4.63	0	1	-15212	1.09	6.76	4.63	0	1	-15211	1.00	6.76	4.63	0	1
-15210	0.94	6.76	4.63	0	1	-15209	0.88	6.76	4.63	0	1	-15208	0.81	6.76	4.63	0	1
-15207	0.75	6.76	4.63	0	1	-15206	0.69	6.76	4.63	0	1	-15205	0.63	6.76	4.63	0	1
-15204	0.56	6.76	4.63	0	1	-15203	0.50	6.76	4.63	0	1	-15202	0.41	6.76	4.63	0	1
-15201	0.32	6.76	4.63	0	1	-15200	0.24	6.76	4.63	0	1	-15199	0.17	6.76	4.63	0	1
-15198	0.09	6.76	4.63	0	1	-15197	0.02	6.76	4.63	0	1	-15196	-0.06	6.76	4.63	0	1



-15195	-0.14	6.76	4.63	0	1	-15194	-0.24	6.76	4.63	0	1	-15193	-0.33	6.76	4.63	0	1
-15192	-0.41	6.76	4.63	0	1	-15191	-0.50	6.76	4.63	0	1	-15190	2.00	10.97	4.63	0	1
-15189	1.91	10.97	4.63	0	1	-15188	1.83	10.97	4.63	0	1	-15187	1.74	10.97	4.63	0	1
-15186	1.65	10.97	4.63	0	1	-15185	1.56	10.97	4.63	0	1	-15184	1.48	10.97	4.63	0	1
-15183	1.41	10.97	4.63	0	1	-15182	1.33	10.97	4.63	0	1	-15181	1.25	10.97	4.63	0	1
-15180	1.17	10.97	4.63	0	1	-15179	1.09	10.97	4.63	0	1	-15178	1.00	10.97	4.63	0	1
-15177	0.94	10.97	4.63	0	1	-15176	0.88	10.97	4.63	0	1	-15175	0.81	10.97	4.63	0	1
-15174	0.75	10.97	4.63	0	1	-15173	0.69	10.97	4.63	0	1	-15172	0.63	10.97	4.63	0	1
-15171	0.56	10.97	4.63	0	1	-15170	0.50	10.97	4.63	0	1	-15169	0.41	10.97	4.63	0	1
-15168	0.33	10.97	4.63	0	1	-15167	0.25	10.97	4.63	0	1	-15166	0.17	10.97	4.63	0	1
-15165	0.09	10.97	4.63	0	1	-15164	0.02	10.97	4.63	0	1	-15163	-0.06	10.97	4.63	0	1
-15162	-0.15	10.97	4.63	0	1	-15161	-0.24	10.97	4.63	0	1	-15160	-0.33	10.97	4.63	0	1
-15159	-0.41	10.97	4.63	0	1	-15158	-0.50	10.97	4.63	0	1	-15157	2.00	6.67	4.63	0	1
-15156	1.91	6.67	4.63	0	1	-15155	1.83	6.67	4.63	0	1	-15154	1.74	6.67	4.63	0	1
-15153	1.65	6.67	4.63	0	1	-15152	1.56	6.67	4.63	0	1	-15151	1.41	6.67	4.63	0	1
-15150	1.33	6.67	4.63	0	1	-15149	1.25	6.67	4.63	0	1	-15148	1.17	6.67	4.63	0	1
-15147	1.00	6.67	4.63	0	1	-15146	0.94	6.67	4.63	0	1	-15145	0.88	6.67	4.63	0	1
-15144	0.81	6.67	4.63	0	1	-15143	0.75	6.67	4.63	0	1	-15142	0.69	6.67	4.63	0	1
-15141	0.63	6.67	4.63	0	1	-15140	0.56	6.67	4.63	0	1	-15139	0.25	6.67	4.63	0	1
-15138	0.17	6.67	4.63	0	1	-15137	0.09	6.67	4.63	0	1	-15136	-0.15	6.67	4.63	0	1
-15135	-0.33	6.67	4.63	0	1	-15134	1.82	11.06	4.62	0	1	-15133	1.49	11.06	4.62	0	1
-15132	0.17	11.06	4.62	0	1	-15131	-0.14	8.82	4.63	0	1	-15130	1.09	6.67	4.63	0	1
-15129	0.50	6.67	4.63	0	1	-15128	0.41	6.67	4.63	0	1	-15127	0.33	6.67	4.63	0	1
-15126	0.02	6.67	4.63	0	1	-15125	-0.24	6.67	4.63	0	1	-15124	-0.41	6.67	4.63	0	1
-15123	-0.50	6.67	4.63	0	1	-15122	2.00	11.06	4.62	0	1	-15121	1.91	11.06	4.62	0	1
-15120	1.65	11.06	4.62	0	1	-15119	1.57	11.06	4.62	0	1	-15118	1.41	11.06	4.62	0	1
-15117	1.33	11.06	4.62	0	1	-15116	1.25	11.06	4.62	0	1	-15115	1.17	11.06	4.62	0	1
-15114	1.09	11.06	4.62	0	1	-15113	1.00	11.06	4.62	0	1	-15112	0.94	11.06	4.62	0	1
-15111	0.88	11.06	4.62	0	1	-15110	0.81	11.06	4.62	0	1	-15109	0.75	11.06	4.62	0	1
-15108	0.69	11.06	4.62	0	1	-15107	0.63	11.06	4.62	0	1	-15106	0.56	11.06	4.62	0	1
-15105	0.41	11.06	4.62	0	1	-15104	0.25	11.06	4.62	0	1	-15103	0.09	11.06	4.62	0	1
-15102	-0.07	11.06	4.62	0	1	-15101	-0.15	11.06	4.62	0	1	-15100	-0.24	11.06	4.62	0	1
-15099	-0.32	11.06	4.62	0	1	-15098	1.64	8.82	4.63	0	1	-15097	1.48	6.67	4.63	0	1
-15096	-0.06	6.67	4.63	0	1	-15095	1.74	11.06	4.62	0	1	-15094	0.50	11.06	4.62	0	1
-15093	0.33	11.06	4.62	0	1	-15092	0.01	11.06	4.62	0	1	-15091	-0.41	11.06	4.62	0	1
-15090	-0.50	11.06	4.62	0	1	-15089	2.00	6.57	4.62	0	1	-15088	1.91	6.57	4.62	0	1
-15087	1.82	6.57	4.62	0	1	-15086	1.74	6.57	4.62	0	1	-15085	1.65	6.57	4.62	0	1
-15084	1.57	6.57	4.62	0	1	-15083	1.49	6.57	4.62	0	1	-15082	1.41	6.57	4.62	0	1
-15081	1.33	6.57	4.62	0	1	-15080	1.25	6.57	4.62	0	1	-15079	1.17	6.57	4.62	0	1
-15078	1.09	6.57	4.62	0	1	-15077	1.00	6.57	4.62	0	1	-15076	0.94	6.57	4.62	0	1
-15075	0.88	6.57	4.62	0	1	-15074	0.81	6.57	4.62	0	1	-15073	0.75	6.57	4.62	0	1
-15072	0.69	6.57	4.62	0	1	-15071	0.63	6.57	4.62	0	1	-15070	0.56	6.57	4.62	0	1
-15069	0.50	6.57	4.62	0	1	-15068	0.41	6.57	4.62	0	1	-15067	0.33	6.57	4.62	0	1
-15066	0.25	6.57	4.62	0	1	-15065	0.17	6.57	4.62	0	1	-15064	0.09	6.57	4.62	0	1
-15063	0.01	6.57	4.62	0	1	-15062	-0.07	6.57	4.62	0	1	-15061	-0.15	6.57	4.62	0	1
-15060	-0.24	6.57	4.62	0	1	-15059	-0.32	6.57	4.62	0	1	-15058	-0.41	6.57	4.62	0	1
-15057	-0.50	6.57	4.62	0	1	-15056	2.00	11.16	4.62	0	1	-15055	1.91	11.16	4.62	0	1
-15054	1.82	11.16	4.62	0	1	-15053	1.74	11.16	4.62	0	1	-15052	1.65	11.16	4.62	0	1
-15051	1.57	11.16	4.62	0	1	-15050	1.49	11.16	4.62	0	1	-15049	1.41	11.16	4.62	0	1
-15048	1.33	11.16	4.62	0	1	-15047	1.25	11.16	4.62	0	1	-15046	1.17	11.16	4.62	0	1
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-15042	0.88	11.16	4.62	0	1	-15041	0.81	11.16	4.62	0	1	-15040	0.75	11.16	4.62	0	1
-15039	0.69	11.16	4.62	0	1	-15038	0.63	11.16	4.62	0	1	-15037	0.56	11.16	4.62	0	1
-15036	0.50	11.16	4.62	0	1	-15035	0.41	11.16	4.62	0	1	-15034	0.33	11.16	4.62	0	1
-15033	0.25	11.16	4.62	0	1	-15032	0.17	11.16	4.62	0	1	-15031	0.09	11.16	4.62	0	1
-15030	0.01	11.16	4.62	0	1	-15029	-0.07	11.16	4.62	0	1	-15028	-0.15	11.16	4.62	0	1
-15027	-0.24	11.16	4.62	0	1	-15026	-0.32	11.16	4.62	0	1	-15025	-0.41	11.16	4.62	0	1
-15024	-0.50	11.16	4.62	0	1	-15023	2.00	6.47	4.62	0	1	-15022	1.91	6.47	4.62	0	1
-15021	1.82	6.47	4.62	0	1	-15020	1.74	6.47	4.62	0	1	-15019	1.65	6.47	4.62	0	1
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-15012	1.09	6.47	4.62	0	1	-15011	1.00	6.47	4.62	0	1	-15010	0.94	6.47	4.62	0	1
-15009	0.88	6.47	4.62	0	1	-15008	0.81	6.47	4.62	0	1	-15007	0.75	6.47	4.62	0	1
-15006	0.69	6.47	4.62	0	1	-15005	0.63	6.47	4.62	0	1	-15004	0.56	6.47	4.62	0	1
-15003	0.50	6.47	4.62	0	1	-15002	0.41	6.47	4.62	0	1	-15001	0.33	6.47	4.62	0	1
-15000	0.25	6.47	4.62	0	1	-14999	0.17	6.47	4.62	0	1	-14998	0.09	6.47	4.62	0	1
-14997	0.01	6.47	4.62	0	1	-14996	-0.07	6.47	4.62	0	1	-14995	-0.15	6.47	4.62	0	1
-14994	-0.24	6.47	4.62	0	1	-14993	-0.32	6.47	4.62	0	1	-14992	-0.41	6.47	4.62	0	1
-14991	-0.50	6.47	4.62	0	1	-14990	2.00	11.26	4.62	0	1	-14989	1.91	11.26	4.62	0	1
-14988	1.82	11.26	4.62	0	1	-14987	1.74	11.26	4.62	0	1	-14986	1.65	11.26	4.62	0	1
-14985	1.57	11.26	4.62	0	1	-14984	1.49	11.26	4.62	0	1	-14983	1.41	11.26	4.62	0	1
-14982	1.33	11.26	4.62	0	1	-14981	1.25	11.26	4.62	0	1	-14980	1.17	11.26	4.62	0	1
-14979	1.09	11.26	4.62	0	1	-14978	1.00	11.26	4.62	0	1	-14977	0.94	11.26	4.62	0	1
-14976	0.88	11.26	4.62	0	1	-14975	0.81	11.26	4.62	0	1	-14974	0.75	11.26	4.62	0	1
-14973	0.69	11.26	4.62	0	1	-14972	0.63	11.26	4.62	0	1	-14971	0.56	11.26	4.62	0	1
-14970	0.50	11.26	4.62	0	1	-14969	0.41	11.26	4.62	0	1	-14968	0.33	11.26	4.62	0	1
-14967	0.25	11.26	4.62	0	1	-14966	0.17	11.26	4.62	0	1	-14965	0.09	11.26	4.62	0	1
-14964	0.01	11.26	4.62	0	1	-14963	-0.07	11.26	4.62	0	1	-14962	-0.15	11.26	4.62	0	1
-14961	-0.24	11.26	4.62	0	1	-14960	-0.32	11.26	4.62	0	1	-14959	-0.41	11.26	4.62	0	1

-14958	-0.50	11.26	4.62	0	1	-14957	2.00	6.37	4.62	0	1	-14956	1.91	6.37	4.62	0	1
-14955	1.82	6.37	4.62	0	1	-14954	1.74	6.37	4.62	0	1	-14953	1.65	6.37	4.62	0	1
-14952	1.57	6.37	4.62	0	1	-14951	1.49	6.37	4.62	0	1	-14950	1.41	6.37	4.62	0	1
-14949	1.33	6.37	4.62	0	1	-14948	1.25	6.37	4.62	0	1	-14947	1.17	6.37	4.62	0	1
-14946	1.09	6.37	4.62	0	1	-14945	1.00	6.37	4.62	0	1	-14944	0.94	6.37	4.62	0	1
-14943	0.88	6.37	4.62	0	1	-14942	0.81	6.37	4.62	0	1	-14941	0.75	6.37	4.62	0	1
-14940	0.69	6.37	4.62	0	1	-14939	0.63	6.37	4.62	0	1	-14938	0.56	6.37	4.62	0	1
-14937	0.50	6.37	4.62	0	1	-14936	0.41	6.37	4.62	0	1	-14935	0.33	6.37	4.62	0	1
-14934	0.25	6.37	4.62	0	1	-14933	0.17	6.37	4.62	0	1	-14932	0.09	6.37	4.62	0	1
-14931	0.01	6.37	4.62	0	1	-14930	-0.07	6.37	4.62	0	1	-14929	-0.15	6.37	4.62	0	1
-14928	-0.24	6.37	4.62	0	1	-14927	-0.32	6.37	4.62	0	1	-14926	-0.41	6.37	4.62	0	1
-14925	-0.50	6.37	4.62	0	1	-14924	2.00	11.36	4.62	0	1	-14923	1.91	11.36	4.62	0	1
-14922	1.82	11.36	4.62	0	1	-14921	1.74	11.36	4.62	0	1	-14920	1.65	11.36	4.62	0	1
-14919	1.57	11.36	4.62	0	1	-14918	1.49	11.36	4.62	0	1	-14917	1.41	11.36	4.62	0	1
-14916	1.33	11.36	4.62	0	1	-14915	1.25	11.36	4.62	0	1	-14914	1.17	11.36	4.62	0	1
-14913	1.09	11.36	4.62	0	1	-14912	1.00	11.36	4.62	0	1	-14911	0.94	11.36	4.62	0	1
-14910	0.88	11.36	4.62	0	1	-14909	0.81	11.36	4.62	0	1	-14908	0.75	11.36	4.62	0	1
-14907	0.69	11.36	4.62	0	1	-14906	0.63	11.36	4.62	0	1	-14905	0.56	11.36	4.62	0	1
-14904	0.50	11.36	4.62	0	1	-14903	0.41	11.36	4.62	0	1	-14902	0.33	11.36	4.62	0	1
-14901	0.25	11.36	4.62	0	1	-14900	0.17	11.36	4.62	0	1	-14899	0.09	11.36	4.62	0	1
-14898	0.01	11.36	4.62	0	1	-14897	-0.07	11.36	4.62	0	1	-14896	-0.15	11.36	4.62	0	1
-14895	-0.24	11.36	4.62	0	1	-14894	-0.32	11.36	4.62	0	1	-14893	-0.41	11.36	4.62	0	1
-14892	-0.50	11.36	4.62	0	1	-14891	2.00	6.28	4.62	0	1	-14890	1.91	6.28	4.62	0	1
-14889	1.82	6.28	4.62	0	1	-14888	1.74	6.28	4.62	0	1	-14887	1.65	6.28	4.62	0	1
-14886	1.57	6.28	4.62	0	1	-14885	1.49	6.28	4.62	0	1	-14884	1.41	6.28	4.62	0	1
-14883	1.33	6.28	4.62	0	1	-14882	1.25	6.28	4.62	0	1	-14881	1.17	6.28	4.62	0	1
-14880	1.09	6.28	4.62	0	1	-14879	1.00	6.28	4.62	0	1	-14878	0.94	6.28	4.62	0	1
-14877	0.88	6.28	4.62	0	1	-14876	0.81	6.28	4.62	0	1	-14875	0.75	6.28	4.62	0	1
-14874	0.69	6.28	4.62	0	1	-14873	0.63	6.28	4.62	0	1	-14872	0.56	6.28	4.62	0	1
-14871	0.50	6.28	4.62	0	1	-14870	0.41	6.28	4.62	0	1	-14869	0.33	6.28	4.62	0	1
-14868	0.25	6.28	4.62	0	1	-14867	0.17	6.28	4.62	0	1	-14866	0.09	6.28	4.62	0	1
-14865	0.01	6.28	4.62	0	1	-14864	-0.07	6.28	4.62	0	1	-14863	-0.15	6.28	4.62	0	1
-14862	-0.24	6.28	4.62	0	1	-14861	-0.32	6.28	4.62	0	1	-14860	-0.41	6.28	4.62	0	1
-14859	-0.50	6.28	4.62	0	1	-14858	2.00	11.46	4.62	0	1	-14857	1.91	11.46	4.62	0	1
-14856	1.82	11.46	4.62	0	1	-14855	1.74	11.46	4.62	0	1	-14854	1.65	11.46	4.62	0	1
-14853	1.57	11.46	4.62	0	1	-14852	1.49	11.46	4.62	0	1	-14851	1.41	11.46	4.62	0	1
-14850	1.33	11.46	4.62	0	1	-14849	1.25	11.46	4.62	0	1	-14848	1.17	11.46	4.62	0	1
-14847	1.09	11.46	4.62	0	1	-14846	1.00	11.46	4.62	0	1	-14845	0.94	11.46	4.62	0	1
-14844	0.88	11.46	4.62	0	1	-14843	0.81	11.46	4.62	0	1	-14842	0.75	11.46	4.62	0	1
-14841	0.69	11.46	4.62	0	1	-14840	0.63	11.46	4.62	0	1	-14839	0.56	11.46	4.62	0	1
-14838	0.50	11.46	4.62	0	1	-14837	0.41	11.46	4.62	0	1	-14836	0.33	11.46	4.62	0	1
-14835	0.25	11.46	4.62	0	1	-14834	0.17	11.46	4.62	0	1	-14833	0.09	11.46	4.62	0	1
-14832	0.01	11.46	4.62	0	1	-14831	-0.07	11.46	4.62	0	1	-14830	-0.15	11.46	4.62	0	1
-14829	-0.24	11.46	4.62	0	1	-14828	-0.32	11.46	4.62	0	1	-14827	-0.41	11.46	4.62	0	1
-14826	-0.50	11.46	4.62	0	1	-14825	2.00	6.18	4.62	0	1	-14824	1.91	6.18	4.62	0	1
-14823	1.82	6.18	4.62	0	1	-14822	1.74	6.18	4.62	0	1	-14821	1.65	6.18	4.62	0	1
-14820	1.57	6.18	4.62	0	1	-14819	1.49	6.18	4.62	0	1	-14818	1.41	6.18	4.62	0	1
-14817	1.33	6.18	4.62	0	1	-14816	1.25	6.18	4.62	0	1	-14815	1.17	6.18	4.62	0	1
-14814	1.09	6.18	4.62	0	1	-14813	1.00	6.18	4.62	0	1	-14812	0.94	6.18	4.62	0	1
-14811	0.88	6.18	4.62	0	1	-14810	0.81	6.18	4.62	0	1	-14809	0.75	6.18	4.62	0	1
-14808	0.69	6.18	4.62	0	1	-14807	0.63	6.18	4.62	0	1	-14806	0.56	6.18	4.62	0	1
-14805	0.50	6.18	4.62	0	1	-14804	0.41	6.18	4.62	0	1	-14803	0.33	6.18	4.62	0	1
-14802	0.25	6.18	4.62	0	1	-14801	0.17	6.18	4.62	0	1	-14800	0.09	6.18	4.62	0	1
-14799	0.01	6.18	4.62	0	1	-14798	-0.07	6.18	4.62	0	1	-14797	-0.15	6.18	4.62	0	1
-14796	-0.24	6.18	4.62	0	1	-14795	-0.32	6.18	4.62	0	1	-14794	-0.41	6.18	4.62	0	1
-14793	-0.50	6.18	4.62	0	1	-14792	2.00	11.55	4.62	0	1	-14791	1.91	11.55	4.62	0	1
-14790	1.83	11.55	4.62	0	1	-14789	1.74	11.55	4.62	0	1	-14788	1.65	11.55	4.62	0	1
-14787	1.56	11.55	4.62	0	1	-14786	1.48	11.55	4.62	0	1	-14785	1.41	11.55	4.62	0	1
-14784	1.33	11.55	4.62	0	1	-14783	1.25	11.55	4.62	0	1	-14782	1.17	11.55	4.62	0	1
-14781	1.09	11.55	4.62	0	1	-14780	1.00	11.55	4.62	0	1	-14779	0.94	11.55	4.62	0	1
-14778	0.88	11.55	4.62	0	1	-14777	0.81	11.55	4.62	0	1	-14776	0.75	11.55	4.62	0	1
-14775	0.69	11.55	4.62	0	1	-14774	0.63	11.55	4.62	0	1	-14773	0.56	11.55	4.62	0	1
-14772	0.50	11.55	4.62	0	1	-14771	0.41	11.55	4.62	0	1	-14770	0.33	11.55	4.62	0	1
-14769	0.25	11.55	4.62	0	1	-14768	0.17	11.55	4.62	0	1	-14767	0.09	11.55	4.62	0	1
-14766	0.02	11.55	4.62	0	1	-14765	-0.06	11.55	4.62	0	1	-14764	-0.15	11.55	4.62	0	1
-14763	-0.24	11.55	4.62	0	1	-14762	-0.33	11.55	4.62	0	1	-14761	-0.41	11.55	4.62	0	1
-14760	-0.50	11.55	4.62	0	1	-14759	2.00	6.08	4.62	0	1	-14758	1.91	6.08	4.62	0	1
-14757	1.83	6.08	4.62	0	1	-14756	1.74	6.08	4.62	0	1	-14755	1.65	6.08	4.62	0	1
-14754	1.56	6.08	4.62	0	1	-14753	1.48	6.08	4.62	0	1	-14752	1.41	6.08	4.62	0	1
-14751	1.33	6.08	4.62	0	1	-14750	1.25	6.08	4.62	0	1	-14749	1.17	6.08	4.62	0	1
-14748	1.09	6.08	4.62	0	1	-14747	1.00	6.08	4.62	0	1	-14746	0.94	6.08	4.62	0	1
-14745	0.88	6.08	4.62	0	1	-14744	0.81	6.08	4.62	0	1	-14743	0.75	6.08	4.62	0	1
-14742	0.69	6.08	4.62	0	1	-14741	0.63	6.08	4.62	0	1	-14740	0.56	6.08	4.62	0	1
-14739	0.50	6.08	4.62	0	1	-14738	0.41	6.08	4.62	0	1	-14737	0.33	6.08	4.62	0	1
-14736	0.25	6.08	4.62	0	1	-14735	0.17	6.08	4.62	0	1	-14734	0.09	6.08	4.62	0	1
-14733	0.02	6.08	4.62	0	1	-14732	-0.06	6.08	4.62	0	1	-14731	-0.15	6.08	4.62	0	1
-14730	-0.24	6.08	4.62	0	1	-14729	-0.33	6.08	4.62	0	1	-14728	-0.41	6.08	4.62	0	1
-14727	-0.50	6.08	4.62	0	1	-14726	2.00	11.65	4.61	0	1	-14725	1.91	11.65	4.61	0	1
-14724	1.83	11.65	4.61	0	1	-14723	1.74	11.65	4.61	0	1	-14722	1.64	11.65	4.61	0	1

-14721	1.56	11.65	4.61	0	1	-14720	1.48	11.65	4.61	0	1	-14719	1.41	11.65	4.61	0	1
-14718	1.33	11.65	4.61	0	1	-14717	1.26	11.65	4.61	0	1	-14716	1.18	11.65	4.61	0	1
-14715	1.09	11.65	4.61	0	1	-14714	1.00	11.65	4.61	0	1	-14713	0.94	11.65	4.61	0	1
-14712	0.88	11.65	4.61	0	1	-14711	0.81	11.65	4.61	0	1	-14710	0.75	11.65	4.61	0	1
-14709	0.69	11.65	4.61	0	1	-14708	0.63	11.65	4.61	0	1	-14707	0.56	11.65	4.61	0	1
-14706	0.50	11.65	4.61	0	1	-14705	0.41	11.65	4.61	0	1	-14704	0.32	11.65	4.61	0	1
-14703	0.24	11.65	4.61	0	1	-14702	0.17	11.65	4.61	0	1	-14701	0.09	11.65	4.61	0	1
-14700	0.02	11.65	4.61	0	1	-14699	-0.06	11.65	4.61	0	1	-14698	-0.14	11.65	4.61	0	1
-14697	-0.24	11.65	4.61	0	1	-14696	-0.33	11.65	4.61	0	1	-14695	-0.41	11.65	4.61	0	1
-14694	-0.50	11.65	4.61	0	1	-14693	2.00	5.98	4.61	0	1	-14692	1.91	5.98	4.61	0	1
-14691	1.83	5.98	4.61	0	1	-14690	1.74	5.98	4.61	0	1	-14689	1.64	5.98	4.61	0	1
-14688	1.56	5.98	4.61	0	1	-14687	1.48	5.98	4.61	0	1	-14686	1.41	5.98	4.61	0	1
-14685	1.33	5.98	4.61	0	1	-14684	1.26	5.98	4.61	0	1	-14683	1.18	5.98	4.61	0	1
-14682	1.09	5.98	4.61	0	1	-14681	1.00	5.98	4.61	0	1	-14680	0.94	5.98	4.61	0	1
-14679	0.88	5.98	4.61	0	1	-14678	0.81	5.98	4.61	0	1	-14677	0.75	5.98	4.61	0	1
-14676	0.69	5.98	4.61	0	1	-14675	0.63	5.98	4.61	0	1	-14674	0.56	5.98	4.61	0	1
-14673	0.50	5.98	4.61	0	1	-14672	0.41	5.98	4.61	0	1	-14671	0.32	5.98	4.61	0	1
-14670	0.24	5.98	4.61	0	1	-14669	0.17	5.98	4.61	0	1	-14668	0.09	5.98	4.61	0	1
-14667	0.02	5.98	4.61	0	1	-14666	-0.06	5.98	4.61	0	1	-14665	-0.14	5.98	4.61	0	1
-14664	-0.24	5.98	4.61	0	1	-14663	-0.33	5.98	4.61	0	1	-14662	-0.41	5.98	4.61	0	1
-14661	-0.50	5.98	4.61	0	1	-14660	2.00	11.75	4.61	0	1	-14659	1.92	11.75	4.61	0	1
-14658	1.83	11.75	4.61	0	1	-14657	1.73	11.75	4.61	0	1	-14656	1.64	11.75	4.61	0	1
-14655	1.55	11.75	4.61	0	1	-14654	1.48	11.75	4.61	0	1	-14653	1.40	11.75	4.61	0	1
-14652	1.33	11.75	4.61	0	1	-14651	1.26	11.75	4.61	0	1	-14650	1.19	11.75	4.61	0	1
-14649	1.09	11.75	4.61	0	1	-14648	1.00	11.75	4.61	0	1	-14647	0.94	11.75	4.61	0	1
-14646	0.88	11.75	4.61	0	1	-14645	0.81	11.75	4.61	0	1	-14644	0.75	11.75	4.61	0	1
-14643	0.69	11.75	4.61	0	1	-14642	0.63	11.75	4.61	0	1	-14641	0.56	11.75	4.61	0	1
-14640	0.50	11.75	4.61	0	1	-14639	0.41	11.75	4.61	0	1	-14638	0.31	11.75	4.61	0	1
-14637	0.24	11.75	4.61	0	1	-14636	0.17	11.75	4.61	0	1	-14635	0.10	11.75	4.61	0	1
-14634	0.03	11.75	4.61	0	1	-14633	-0.06	11.75	4.61	0	1	-14632	-0.14	11.75	4.61	0	1
-14631	-0.23	11.75	4.61	0	1	-14630	-0.33	11.75	4.61	0	1	-14629	-0.42	11.75	4.61	0	1
-14628	-0.50	11.75	4.61	0	1	-14627	-0.23	10.77	4.61	0	1	-14626	-0.23	6.86	4.61	0	1
-14625	2.00	5.88	4.61	0	1	-14624	1.92	5.88	4.61	0	1	-14623	1.83	5.88	4.61	0	1
-14622	1.73	5.88	4.61	0	1	-14621	1.64	5.88	4.61	0	1	-14620	1.55	5.88	4.61	0	1
-14619	1.48	5.88	4.61	0	1	-14618	1.40	5.88	4.61	0	1	-14617	1.33	5.88	4.61	0	1
-14616	1.26	5.88	4.61	0	1	-14615	1.19	5.88	4.61	0	1	-14614	1.09	5.88	4.61	0	1
-14613	1.00	5.88	4.61	0	1	-14612	0.94	5.88	4.61	0	1	-14611	0.88	5.88	4.61	0	1
-14610	0.81	5.88	4.61	0	1	-14609	0.75	5.88	4.61	0	1	-14608	0.69	5.88	4.61	0	1
-14607	0.63	5.88	4.61	0	1	-14606	0.56	5.88	4.61	0	1	-14605	0.50	5.88	4.61	0	1
-14604	0.41	5.88	4.61	0	1	-14603	0.31	5.88	4.61	0	1	-14602	0.24	5.88	4.61	0	1
-14601	0.17	5.88	4.61	0	1	-14600	0.10	5.88	4.61	0	1	-14599	0.03	5.88	4.61	0	1
-14598	-0.06	5.88	4.61	0	1	-14597	-0.14	5.88	4.61	0	1	-14596	-0.23	5.88	4.61	0	1
-14595	-0.33	5.88	4.61	0	1	-14594	-0.42	5.88	4.61	0	1	-14593	-0.50	5.88	4.61	0	1
-14592	2.00	11.85	4.61	0	1	-14591	1.91	11.85	4.61	0	1	-14590	1.83	11.85	4.61	0	1
-14589	1.74	11.85	4.61	0	1	-14588	1.64	11.85	4.61	0	1	-14587	1.56	11.85	4.61	0	1
-14586	1.48	11.85	4.61	0	1	-14585	1.41	11.85	4.61	0	1	-14584	1.33	11.85	4.61	0	1
-14583	1.26	11.85	4.61	0	1	-14582	1.18	11.85	4.61	0	1	-14581	1.09	11.85	4.61	0	1
-14580	1.00	11.85	4.61	0	1	-14579	0.94	11.85	4.61	0	1	-14578	0.88	11.85	4.61	0	1
-14577	0.81	11.85	4.61	0	1	-14576	0.75	11.85	4.61	0	1	-14575	0.69	11.85	4.61	0	1
-14574	0.63	11.85	4.61	0	1	-14573	0.56	11.85	4.61	0	1	-14572	0.50	11.85	4.61	0	1
-14571	0.41	11.85	4.61	0	1	-14570	0.32	11.85	4.61	0	1	-14569	0.24	11.85	4.61	0	1
-14568	0.17	11.85	4.61	0	1	-14567	0.09	11.85	4.61	0	1	-14566	0.02	11.85	4.61	0	1
-14565	-0.06	11.85	4.61	0	1	-14564	-0.14	11.85	4.61	0	1	-14563	-0.24	11.85	4.61	0	1
-14562	-0.33	11.85	4.61	0	1	-14561	-0.41	11.85	4.61	0	1	-14560	-0.50	11.85	4.61	0	1
-14559	1.64	9.79	4.61	0	1	-14558	-0.14	9.79	4.61	0	1	-14557	1.64	7.84	4.61	0	1
-14556	-0.14	7.84	4.61	0	1	-14555	2.00	5.79	4.61	0	1	-14554	1.92	5.79	4.61	0	1
-14553	1.83	5.79	4.61	0	1	-14552	1.74	5.79	4.61	0	1	-14551	1.65	5.79	4.61	0	1
-14550	1.57	5.79	4.61	0	1	-14549	1.49	5.79	4.61	0	1	-14548	1.41	5.79	4.61	0	1
-14547	1.33	5.79	4.61	0	1	-14546	1.26	5.79	4.61	0	1	-14545	1.18	5.79	4.61	0	1
-14544	1.09	5.79	4.61	0	1	-14543	1.00	5.79	4.61	0	1	-14542	0.94	5.79	4.61	0	1
-14541	0.88	5.79	4.61	0	1	-14540	0.81	5.79	4.61	0	1	-14539	0.75	5.79	4.61	0	1
-14538	0.69	5.79	4.61	0	1	-14537	0.63	5.79	4.61	0	1	-14536	0.56	5.79	4.61	0	1
-14535	0.50	5.79	4.61	0	1	-14534	0.41	5.79	4.61	0	1	-14533	0.32	5.79	4.61	0	1
-14532	0.24	5.79	4.61	0	1	-14531	0.17	5.79	4.61	0	1	-14530	0.09	5.79	4.61	0	1
-14529	0.01	5.79	4.61	0	1	-14528	-0.07	5.79	4.61	0	1	-14527	-0.15	5.79	4.61	0	1
-14526	-0.24	5.79	4.61	0	1	-14525	-0.33	5.79	4.61	0	1	-14524	-0.42	5.79	4.61	0	1
-14523	-0.50	5.79	4.61	0	1	-14522	2.00	11.94	4.61	0	1	-14521	1.91	11.94	4.61	0	1
-14520	1.83	11.94	4.61	0	1	-14519	1.74	11.94	4.61	0	1	-14518	1.65	11.94	4.61	0	1
-14517	1.56	11.94	4.61	0	1	-14516	1.48	11.94	4.61	0	1	-14515	1.41	11.94	4.61	0	1
-14514	1.33	11.94	4.61	0	1	-14513	1.25	11.94	4.61	0	1	-14512	1.17	11.94	4.61	0	1
-14511	1.09	11.94	4.61	0	1	-14510	1.00	11.94	4.61	0	1	-14509	0.94	11.94	4.61	0	1
-14508	0.88	11.94	4.61	0	1	-14507	0.81	11.94	4.61	0	1	-14506	0.75	11.94	4.61	0	1
-14505	0.69	11.94	4.61	0	1	-14504	0.63	11.94	4.61	0	1	-14503	0.56	11.94	4.61	0	1
-14502	0.50	11.94	4.61	0	1	-14501	0.41	11.94	4.61	0	1	-14500	0.33	11.94	4.61	0	1
-14499	0.25	11.94	4.61	0	1	-14498	0.17	11.94	4.61	0	1	-14497	0.09	11.94	4.61	0	1
-14496	0.02	11.94	4.61	0	1	-14495	-0.06	11.94	4.61	0	1	-14494	-0.15	11.94	4.61	0	1
-14493	-0.24	11.94	4.61	0	1	-14492	-0.33	11.94	4.61	0	1	-14491	-0.41	11.94	4.61	0	1
-14490	-0.50	11.94	4.61	0	1	-14489	2.00	5.69	4.61	0	1	-14488	1.92	5.69	4.61	0	1
-14487	1.83	5.69	4.61	0	1	-14486	1.74	5.69	4.61	0	1	-14485	1.66	5.69	4.61	0	1

-14484	1.57	5.69	4.61	0	1	-14483	1.49	5.69	4.61	0	1	-14482	1.41	5.69	4.61	0	1
-14481	1.33	5.69	4.61	0	1	-14480	1.25	5.69	4.61	0	1	-14479	1.17	5.69	4.61	0	1
-14478	1.09	5.69	4.61	0	1	-14477	1.00	5.69	4.61	0	1	-14476	0.94	5.69	4.61	0	1
-14475	0.88	5.69	4.61	0	1	-14474	0.81	5.69	4.61	0	1	-14473	0.75	5.69	4.61	0	1
-14472	0.69	5.69	4.61	0	1	-14471	0.63	5.69	4.61	0	1	-14470	0.56	5.69	4.61	0	1
-14469	0.50	5.69	4.61	0	1	-14468	0.41	5.69	4.61	0	1	-14467	0.33	5.69	4.61	0	1
-14466	0.25	5.69	4.61	0	1	-14465	0.17	5.69	4.61	0	1	-14464	0.09	5.69	4.61	0	1
-14463	0.01	5.69	4.61	0	1	-14462	-0.07	5.69	4.61	0	1	-14461	-0.16	5.69	4.61	0	1
-14460	-0.24	5.69	4.61	0	1	-14459	-0.33	5.69	4.61	0	1	-14458	-0.42	5.69	4.61	0	1
-14457	-0.50	5.69	4.61	0	1	-14456	2.00	12.04	4.61	0	1	-14455	1.91	12.04	4.61	0	1
-14454	1.82	12.04	4.61	0	1	-14453	1.74	12.04	4.61	0	1	-14452	1.65	12.04	4.61	0	1
-14451	1.57	12.04	4.61	0	1	-14450	1.49	12.04	4.61	0	1	-14449	1.41	12.04	4.61	0	1
-14448	1.33	12.04	4.61	0	1	-14447	1.25	12.04	4.61	0	1	-14446	1.17	12.04	4.61	0	1
-14445	1.09	12.04	4.61	0	1	-14444	1.00	12.04	4.61	0	1	-14443	0.94	12.04	4.61	0	1
-14442	0.88	12.04	4.61	0	1	-14441	0.81	12.04	4.61	0	1	-14440	0.75	12.04	4.61	0	1
-14439	0.69	12.04	4.61	0	1	-14438	0.63	12.04	4.61	0	1	-14437	0.56	12.04	4.61	0	1
-14436	0.50	12.04	4.61	0	1	-14435	0.41	12.04	4.61	0	1	-14434	0.33	12.04	4.61	0	1
-14433	0.25	12.04	4.61	0	1	-14432	0.17	12.04	4.61	0	1	-14431	0.09	12.04	4.61	0	1
-14430	0.01	12.04	4.61	0	1	-14429	-0.07	12.04	4.61	0	1	-14428	-0.15	12.04	4.61	0	1
-14427	-0.24	12.04	4.61	0	1	-14426	-0.32	12.04	4.61	0	1	-14425	-0.41	12.04	4.61	0	1
-14424	-0.50	12.04	4.61	0	1	-14423	2.00	5.59	4.61	0	1	-14422	1.92	5.59	4.61	0	1
-14421	1.83	5.59	4.61	0	1	-14420	1.75	5.59	4.61	0	1	-14419	1.66	5.59	4.61	0	1
-14418	1.58	5.59	4.61	0	1	-14417	1.50	5.59	4.61	0	1	-14416	1.41	5.59	4.61	0	1
-14415	1.33	5.59	4.61	0	1	-14414	1.25	5.59	4.61	0	1	-14413	1.17	5.59	4.61	0	1
-14412	1.08	5.59	4.61	0	1	-14411	1.00	5.59	4.61	0	1	-14410	0.94	5.59	4.61	0	1
-14409	0.88	5.59	4.61	0	1	-14408	0.81	5.59	4.61	0	1	-14407	0.75	5.59	4.61	0	1
-14406	0.69	5.59	4.61	0	1	-14405	0.63	5.59	4.61	0	1	-14404	0.56	5.59	4.61	0	1
-14403	0.50	5.59	4.61	0	1	-14402	0.42	5.59	4.61	0	1	-14401	0.33	5.59	4.61	0	1
-14400	0.25	5.59	4.61	0	1	-14399	0.17	5.59	4.61	0	1	-14398	0.09	5.59	4.61	0	1
-14397	0.00	5.59	4.61	0	1	-14396	-0.08	5.59	4.61	0	1	-14395	-0.16	5.59	4.61	0	1
-14394	-0.25	5.59	4.61	0	1	-14393	-0.33	5.59	4.61	0	1	-14392	-0.42	5.59	4.61	0	1
-14391	-0.50	5.59	4.61	0	1	-14390	2.00	12.14	4.61	0	1	-14389	1.91	12.14	4.61	0	1
-14388	1.82	12.14	4.61	0	1	-14387	1.74	12.14	4.61	0	1	-14386	1.65	12.14	4.61	0	1
-14385	1.57	12.14	4.61	0	1	-14384	1.49	12.14	4.61	0	1	-14383	1.41	12.14	4.61	0	1
-14382	1.33	12.14	4.61	0	1	-14381	1.25	12.14	4.61	0	1	-14380	1.17	12.14	4.61	0	1
-14379	1.09	12.14	4.61	0	1	-14378	1.00	12.14	4.61	0	1	-14377	0.94	12.14	4.61	0	1
-14376	0.88	12.14	4.61	0	1	-14375	0.81	12.14	4.61	0	1	-14374	0.75	12.14	4.61	0	1
-14373	0.69	12.14	4.61	0	1	-14372	0.63	12.14	4.61	0	1	-14371	0.56	12.14	4.61	0	1
-14370	0.50	12.14	4.61	0	1	-14369	0.41	12.14	4.61	0	1	-14368	0.33	12.14	4.61	0	1
-14367	0.25	12.14	4.61	0	1	-14366	0.17	12.14	4.61	0	1	-14365	0.09	12.14	4.61	0	1
-14364	0.01	12.14	4.61	0	1	-14363	-0.07	12.14	4.61	0	1	-14362	-0.15	12.14	4.61	0	1
-14361	-0.24	12.14	4.61	0	1	-14360	-0.32	12.14	4.61	0	1	-14359	-0.41	12.14	4.61	0	1
-14358	-0.50	12.14	4.61	0	1	-14357	2.00	5.49	4.61	0	1	-14356	1.92	5.49	4.61	0	1
-14355	1.83	5.49	4.61	0	1	-14354	1.75	5.49	4.61	0	1	-14353	1.66	5.49	4.61	0	1
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-14346	1.08	5.49	4.61	0	1	-14345	1.00	5.49	4.61	0	1	-14344	0.94	5.49	4.61	0	1
-14343	0.88	5.49	4.61	0	1	-14342	0.81	5.49	4.61	0	1	-14341	0.75	5.49	4.61	0	1
-14340	0.69	5.49	4.61	0	1	-14339	0.63	5.49	4.61	0	1	-14338	0.56	5.49	4.61	0	1
-14337	0.50	5.49	4.61	0	1	-14336	0.42	5.49	4.61	0	1	-14335	0.33	5.49	4.61	0	1
-14334	0.25	5.49	4.61	0	1	-14333	0.17	5.49	4.61	0	1	-14332	0.08	5.49	4.61	0	1
-14331	0.00	5.49	4.61	0	1	-14330	-0.08	5.49	4.61	0	1	-14329	-0.16	5.49	4.61	0	1
-14328	-0.25	5.49	4.61	0	1	-14327	-0.33	5.49	4.61	0	1	-14326	-0.42	5.49	4.61	0	1
-14325	-0.50	5.49	4.61	0	1	-14324	2.00	12.24	4.61	0	1	-14323	1.91	12.24	4.61	0	1
-14322	1.82	12.24	4.61	0	1	-14321	1.74	12.24	4.61	0	1	-14320	1.65	12.24	4.61	0	1
-14319	1.57	12.24	4.61	0	1	-14318	1.49	12.24	4.61	0	1	-14317	1.41	12.24	4.61	0	1
-14316	1.33	12.24	4.61	0	1	-14315	1.25	12.24	4.61	0	1	-14314	1.17	12.24	4.61	0	1
-14313	1.09	12.24	4.61	0	1	-14312	1.00	12.24	4.61	0	1	-14311	0.94	12.24	4.61	0	1
-14310	0.88	12.24	4.61	0	1	-14309	0.81	12.24	4.61	0	1	-14308	0.75	12.24	4.61	0	1
-14307	0.69	12.24	4.61	0	1	-14306	0.63	12.24	4.61	0	1	-14305	0.56	12.24	4.61	0	1
-14304	0.50	12.24	4.61	0	1	-14303	0.41	12.24	4.61	0	1	-14302	0.33	12.24	4.61	0	1
-14301	0.25	12.24	4.61	0	1	-14300	0.17	12.24	4.61	0	1	-14299	0.09	12.24	4.61	0	1
-14298	0.01	12.24	4.61	0	1	-14297	-0.07	12.24	4.61	0	1	-14296	-0.15	12.24	4.61	0	1
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-14292	-0.50	12.24	4.61	0	1	-14291	2.00	5.40	4.61	0	1	-14290	1.92	5.40	4.61	0	1
-14289	1.83	5.40	4.61	0	1	-14288	1.75	5.40	4.61	0	1	-14287	1.67	5.40	4.61	0	1
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-14283	1.33	5.40	4.61	0	1	-14282	1.25	5.40	4.61	0	1	-14281	1.17	5.40	4.61	0	1
-14280	1.08	5.40	4.61	0	1	-14279	1.00	5.40	4.61	0	1	-14278	0.94	5.40	4.61	0	1
-14277	0.88	5.40	4.61	0	1	-14276	0.81	5.40	4.61	0	1	-14275	0.75	5.40	4.61	0	1
-14274	0.69	5.40	4.61	0	1	-14273	0.63	5.40	4.61	0	1	-14272	0.56	5.40	4.61	0	1
-14271	0.50	5.40	4.61	0	1	-14270	0.42	5.40	4.61	0	1	-14269	0.33	5.40	4.61	0	1
-14268	0.25	5.40	4.61	0	1	-14267	0.17	5.40	4.61	0	1	-14266	0.08	5.40	4.61	0	1
-14265	0.00	5.40	4.61	0	1	-14264	-0.08	5.40	4.61	0	1	-14263	-0.17	5.40	4.61	0	1
-14262	-0.25	5.40	4.61	0	1	-14261	-0.33	5.40	4.61	0	1	-14260	-0.42	5.40	4.61	0	1
-14259	-0.50	5.40	4.61	0	1	-14258	2.00	12.33	4.60	0	1	-14257	1.91	12.33	4.60	0	1
-14256	1.82	12.33	4.60	0	1	-14255	1.74	12.33	4.60	0	1	-14254	1.65	12.33	4.60	0	1
-14253	1.57	12.33	4.60	0	1	-14252	1.49	12.33	4.60	0	1	-14251	1.41	12.33	4.60	0	1
-14250	1.33	12.33	4.60	0	1	-14249	1.25	12.33	4.60	0	1	-14248	1.17	12.33	4.60	0	1

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-14244	0.88	12.33	4.60	0	1	-14243	0.81	12.33	4.60	0	1	-14242	0.75	12.33	4.60	0	1
-14241	0.69	12.33	4.60	0	1	-14240	0.63	12.33	4.60	0	1	-14239	0.56	12.33	4.60	0	1
-14238	0.50	12.33	4.60	0	1	-14237	0.41	12.33	4.60	0	1	-14236	0.33	12.33	4.60	0	1
-14235	0.25	12.33	4.60	0	1	-14234	0.17	12.33	4.60	0	1	-14233	0.09	12.33	4.60	0	1
-14232	0.01	12.33	4.60	0	1	-14231	-0.07	12.33	4.60	0	1	-14230	-0.15	12.33	4.60	0	1
-14229	-0.24	12.33	4.60	0	1	-14228	-0.32	12.33	4.60	0	1	-14227	-0.41	12.33	4.60	0	1
-14226	-0.50	12.33	4.60	0	1	-14225	2.00	5.30	4.60	0	1	-14224	1.92	5.30	4.60	0	1
-14223	1.83	5.30	4.60	0	1	-14222	1.75	5.30	4.60	0	1	-14221	1.66	5.30	4.60	0	1
-14220	1.58	5.30	4.60	0	1	-14219	1.50	5.30	4.60	0	1	-14218	1.42	5.30	4.60	0	1
-14217	1.33	5.30	4.60	0	1	-14216	1.25	5.30	4.60	0	1	-14215	1.17	5.30	4.60	0	1
-14214	1.08	5.30	4.60	0	1	-14213	1.00	5.30	4.60	0	1	-14212	0.94	5.30	4.60	0	1
-14211	0.88	5.30	4.60	0	1	-14210	0.81	5.30	4.60	0	1	-14209	0.75	5.30	4.60	0	1
-14208	0.69	5.30	4.60	0	1	-14207	0.63	5.30	4.60	0	1	-14206	0.56	5.30	4.60	0	1
-14205	0.50	5.30	4.60	0	1	-14204	0.42	5.30	4.60	0	1	-14203	0.33	5.30	4.60	0	1
-14202	0.25	5.30	4.60	0	1	-14201	0.17	5.30	4.60	0	1	-14200	0.08	5.30	4.60	0	1
-14199	0.00	5.30	4.60	0	1	-14198	-0.08	5.30	4.60	0	1	-14197	-0.16	5.30	4.60	0	1
-14196	-0.25	5.30	4.60	0	1	-14195	-0.33	5.30	4.60	0	1	-14194	-0.42	5.30	4.60	0	1
-14193	-0.50	5.30	4.60	0	1	-14192	2.00	12.43	4.60	0	1	-14191	1.91	12.43	4.60	0	1
-14190	1.82	12.43	4.60	0	1	-14189	1.74	12.43	4.60	0	1	-14188	1.65	12.43	4.60	0	1
-14187	1.57	12.43	4.60	0	1	-14186	1.49	12.43	4.60	0	1	-14185	1.41	12.43	4.60	0	1
-14184	1.33	12.43	4.60	0	1	-14183	1.25	12.43	4.60	0	1	-14182	1.17	12.43	4.60	0	1
-14181	1.09	12.43	4.60	0	1	-14180	1.00	12.43	4.60	0	1	-14179	0.94	12.43	4.60	0	1
-14178	0.88	12.43	4.60	0	1	-14177	0.81	12.43	4.60	0	1	-14176	0.75	12.43	4.60	0	1
-14175	0.69	12.43	4.60	0	1	-14174	0.63	12.43	4.60	0	1	-14173	0.56	12.43	4.60	0	1
-14172	0.50	12.43	4.60	0	1	-14171	0.41	12.43	4.60	0	1	-14170	0.33	12.43	4.60	0	1
-14169	0.25	12.43	4.60	0	1	-14168	0.17	12.43	4.60	0	1	-14167	0.09	12.43	4.60	0	1
-14166	0.01	12.43	4.60	0	1	-14165	-0.07	12.43	4.60	0	1	-14164	-0.15	12.43	4.60	0	1
-14163	-0.24	12.43	4.60	0	1	-14162	-0.32	12.43	4.60	0	1	-14161	-0.41	12.43	4.60	0	1
-14160	-0.50	12.43	4.60	0	1	-14159	2.00	5.20	4.60	0	1	-14158	1.92	5.20	4.60	0	1
-14157	1.83	5.20	4.60	0	1	-14156	1.75	5.20	4.60	0	1	-14155	1.66	5.20	4.60	0	1
-14154	1.58	5.20	4.60	0	1	-14153	1.50	5.20	4.60	0	1	-14152	1.41	5.20	4.60	0	1
-14151	1.33	5.20	4.60	0	1	-14150	1.25	5.20	4.60	0	1	-14149	1.17	5.20	4.60	0	1
-14148	1.08	5.20	4.60	0	1	-14147	1.00	5.20	4.60	0	1	-14146	0.94	5.20	4.60	0	1
-14145	0.88	5.20	4.60	0	1	-14144	0.81	5.20	4.60	0	1	-14143	0.75	5.20	4.60	0	1
-14142	0.69	5.20	4.60	0	1	-14141	0.63	5.20	4.60	0	1	-14140	0.56	5.20	4.60	0	1
-14139	0.50	5.20	4.60	0	1	-14138	0.42	5.20	4.60	0	1	-14137	0.33	5.20	4.60	0	1
-14136	0.25	5.20	4.60	0	1	-14135	0.17	5.20	4.60	0	1	-14134	0.09	5.20	4.60	0	1
-14133	0.00	5.20	4.60	0	1	-14132	-0.08	5.20	4.60	0	1	-14131	-0.16	5.20	4.60	0	1
-14130	-0.25	5.20	4.60	0	1	-14129	-0.33	5.20	4.60	0	1	-14128	-0.42	5.20	4.60	0	1
-14127	-0.50	5.20	4.60	0	1	-14126	2.00	12.53	4.60	0	1	-14125	1.91	12.53	4.60	0	1
-14124	1.83	12.53	4.60	0	1	-14123	1.74	12.53	4.60	0	1	-14122	1.65	12.53	4.60	0	1
-14121	1.56	12.53	4.60	0	1	-14120	1.48	12.53	4.60	0	1	-14119	1.41	12.53	4.60	0	1
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-14115	1.09	12.53	4.60	0	1	-14114	1.00	12.53	4.60	0	1	-14113	0.94	12.53	4.60	0	1
-14112	0.88	12.53	4.60	0	1	-14111	0.81	12.53	4.60	0	1	-14110	0.75	12.53	4.60	0	1
-14109	0.69	12.53	4.60	0	1	-14108	0.63	12.53	4.60	0	1	-14107	0.56	12.53	4.60	0	1
-14106	0.50	12.53	4.60	0	1	-14105	0.41	12.53	4.60	0	1	-14104	0.33	12.53	4.60	0	1
-14103	0.25	12.53	4.60	0	1	-14102	0.17	12.53	4.60	0	1	-14101	0.09	12.53	4.60	0	1
-14100	0.02	12.53	4.60	0	1	-14099	-0.06	12.53	4.60	0	1	-14098	-0.15	12.53	4.60	0	1
-14097	-0.24	12.53	4.60	0	1	-14096	-0.33	12.53	4.60	0	1	-14095	-0.41	12.53	4.60	0	1
-14094	-0.50	12.53	4.60	0	1	-14093	1.18	12.63	4.60	0	1	-14092	0.63	8.82	4.60	0	1
-14091	2.00	5.10	4.60	0	1	-14090	1.92	5.10	4.60	0	1	-14089	1.83	5.10	4.60	0	1
-14088	1.74	5.10	4.60	0	1	-14087	1.66	5.10	4.60	0	1	-14086	1.57	5.10	4.60	0	1
-14085	1.49	5.10	4.60	0	1	-14084	1.41	5.10	4.60	0	1	-14083	1.33	5.10	4.60	0	1
-14082	1.17	5.10	4.60	0	1	-14081	1.00	5.10	4.60	0	1	-14080	0.88	5.10	4.60	0	1
-14079	0.75	5.10	4.60	0	1	-14078	0.69	5.10	4.60	0	1	-14077	0.63	5.10	4.60	0	1
-14076	0.50	5.10	4.60	0	1	-14075	0.41	5.10	4.60	0	1	-14074	0.33	5.10	4.60	0	1
-14073	0.25	5.10	4.60	0	1	-14072	0.17	5.10	4.60	0	1	-14071	0.09	5.10	4.60	0	1
-14070	0.01	5.10	4.60	0	1	-14069	1.00	12.63	4.60	0	1	-14068	0.88	8.82	4.60	0	1
-14067	1.25	5.10	4.60	0	1	-14066	1.09	5.10	4.60	0	1	-14065	0.94	5.10	4.60	0	1
-14064	0.81	5.10	4.60	0	1	-14063	0.56	5.10	4.60	0	1	-14062	-0.07	5.10	4.60	0	1
-14061	-0.16	5.10	4.60	0	1	-14060	-0.24	5.10	4.60	0	1	-14059	-0.33	5.10	4.60	0	1
-14058	-0.42	5.10	4.60	0	1	-14057	-0.50	5.10	4.60	0	1	-14056	2.00	12.63	4.60	0	1
-14055	1.91	12.63	4.60	0	1	-14054	1.83	12.63	4.60	0	1	-14053	1.74	12.63	4.60	0	1
-14052	1.64	12.63	4.60	0	1	-14051	1.56	12.63	4.60	0	1	-14050	1.48	12.63	4.60	0	1
-14049	1.41	12.63	4.60	0	1	-14048	1.33	12.63	4.60	0	1	-14047	1.26	12.63	4.60	0	1
-14046	1.09	12.63	4.60	0	1	-14045	0.94	12.63	4.60	0	1	-14044	0.88	12.63	4.60	0	1
-14043	0.81	12.63	4.60	0	1	-14042	0.75	12.63	4.60	0	1	-14041	0.69	12.63	4.60	0	1
-14040	0.63	12.63	4.60	0	1	-14039	0.56	12.63	4.60	0	1	-14038	0.50	12.63	4.60	0	1
-14037	0.41	12.63	4.60	0	1	-14036	0.32	12.63	4.60	0	1	-14035	0.24	12.63	4.60	0	1
-14034	0.17	12.63	4.60	0	1	-14033	0.09	12.63	4.60	0	1	-14032	0.02	12.63	4.60	0	1
-14031	-0.06	12.63	4.60	0	1	-14030	-0.14	12.63	4.60	0	1	-14029	-0.24	12.63	4.60	0	1
-14028	-0.33	12.63	4.60	0	1	-14027	-0.41	12.63	4.60	0	1	-14026	-0.50	12.63	4.60	0	1
-14025	-0.23	11.75	4.60	0	1	-14024	2.00	5.00	4.60	0	1	-14023	1.92	5.00	4.60	0	1
-14022	1.83	5.00	4.60	0	1	-14021	1.74	5.00	4.60	0	1	-14020	1.65	5.00	4.60	0	1
-14019	1.57	5.00	4.60	0	1	-14018	1.49	5.00	4.60	0	1	-14017	1.41	5.00	4.60	0	1
-14016	1.33	5.00	4.60	0	1	-14015	1.26	5.00	4.60	0	1	-14014	1.18	5.00	4.60	0	1
-14013	1.09	5.00	4.60	0	1	-14012	1.00	5.00	4.60	0	1	-14011	0.94	5.00	4.60	0	1

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-14010	0.88	5.00	4.60	0	1	-14009	0.81	5.00	4.60	0	1	-14008	0.75	5.00	4.60	0	1
-14007	0.69	5.00	4.60	0	1	-14006	0.63	5.00	4.60	0	1	-14005	0.56	5.00	4.60	0	1
-14004	0.50	5.00	4.60	0	1	-14003	0.41	5.00	4.60	0	1	-14002	0.32	5.00	4.60	0	1
-14001	0.24	5.00	4.60	0	1	-14000	0.17	5.00	4.60	0	1	-13999	0.09	5.00	4.60	0	1
-13998	0.01	5.00	4.60	0	1	-13997	-0.07	5.00	4.60	0	1	-13996	-0.15	5.00	4.60	0	1
-13995	-0.24	5.00	4.60	0	1	-13994	-0.33	5.00	4.60	0	1	-13993	-0.42	5.00	4.60	0	1
-13992	-0.50	5.00	4.60	0	1	-13991	2.00	12.73	4.60	0	1	-13990	1.92	12.73	4.60	0	1
-13989	1.83	12.73	4.60	0	1	-13988	1.73	12.73	4.60	0	1	-13987	1.64	12.73	4.60	0	1
-13986	1.55	12.73	4.60	0	1	-13985	1.48	12.73	4.60	0	1	-13984	1.40	12.73	4.60	0	1
-13983	1.33	12.73	4.60	0	1	-13982	1.26	12.73	4.60	0	1	-13981	1.19	12.73	4.60	0	1
-13980	1.09	12.73	4.60	0	1	-13979	1.00	12.73	4.60	0	1	-13978	0.94	12.73	4.60	0	1
-13977	0.88	12.73	4.60	0	1	-13976	0.81	12.73	4.60	0	1	-13975	0.75	12.73	4.60	0	1
-13974	0.69	12.73	4.60	0	1	-13973	0.63	12.73	4.60	0	1	-13972	0.56	12.73	4.60	0	1
-13971	0.50	12.73	4.60	0	1	-13970	0.41	12.73	4.60	0	1	-13969	0.31	12.73	4.60	0	1
-13968	0.24	12.73	4.60	0	1	-13967	0.17	12.73	4.60	0	1	-13966	0.10	12.73	4.60	0	1
-13965	0.03	12.73	4.60	0	1	-13964	-0.06	12.73	4.60	0	1	-13963	-0.14	12.73	4.60	0	1
-13962	-0.23	12.73	4.60	0	1	-13961	-0.33	12.73	4.60	0	1	-13960	-0.42	12.73	4.60	0	1
-13959	-0.50	12.73	4.60	0	1	-13958	1.64	10.77	4.60	0	1	-13957	-0.14	10.77	4.60	0	1
-13956	1.64	6.86	4.60	0	1	-13955	-0.14	6.86	4.60	0	1	-13954	2.00	4.91	4.60	0	1
-13953	1.92	4.91	4.60	0	1	-13952	1.83	4.91	4.60	0	1	-13951	1.73	4.91	4.60	0	1
-13950	1.64	4.91	4.60	0	1	-13949	1.55	4.91	4.60	0	1	-13948	1.48	4.91	4.60	0	1
-13947	1.40	4.91	4.60	0	1	-13946	1.33	4.91	4.60	0	1	-13945	1.26	4.91	4.60	0	1
-13944	1.19	4.91	4.60	0	1	-13943	1.09	4.91	4.60	0	1	-13942	1.00	4.91	4.60	0	1
-13941	0.94	4.91	4.60	0	1	-13940	0.88	4.91	4.60	0	1	-13939	0.81	4.91	4.60	0	1
-13938	0.75	4.91	4.60	0	1	-13937	0.69	4.91	4.60	0	1	-13936	0.63	4.91	4.60	0	1
-13935	0.56	4.91	4.60	0	1	-13934	0.50	4.91	4.60	0	1	-13933	0.41	4.91	4.60	0	1
-13932	0.31	4.91	4.60	0	1	-13931	0.24	4.91	4.60	0	1	-13930	0.17	4.91	4.60	0	1
-13929	0.10	4.91	4.60	0	1	-13928	0.03	4.91	4.60	0	1	-13927	-0.06	4.91	4.60	0	1
-13926	-0.14	4.91	4.60	0	1	-13925	-0.23	4.91	4.60	0	1	-13924	-0.33	4.91	4.60	0	1
-13923	-0.42	4.91	4.60	0	1	-13922	-0.50	4.91	4.60	0	1	-13921	2.00	12.82	4.60	0	1
-13920	1.91	12.82	4.60	0	1	-13919	1.83	12.82	4.60	0	1	-13918	1.74	12.82	4.60	0	1
-13917	1.64	12.82	4.60	0	1	-13916	1.56	12.82	4.60	0	1	-13915	1.48	12.82	4.60	0	1
-13914	1.41	12.82	4.60	0	1	-13913	1.33	12.82	4.60	0	1	-13912	1.26	12.82	4.60	0	1
-13911	1.18	12.82	4.60	0	1	-13910	1.09	12.82	4.60	0	1	-13909	1.00	12.82	4.60	0	1
-13908	0.94	12.82	4.60	0	1	-13907	0.88	12.82	4.60	0	1	-13906	0.81	12.82	4.60	0	1
-13905	0.75	12.82	4.60	0	1	-13904	0.69	12.82	4.60	0	1	-13903	0.63	12.82	4.60	0	1
-13902	0.56	12.82	4.60	0	1	-13901	0.50	12.82	4.60	0	1	-13900	0.41	12.82	4.60	0	1
-13899	0.32	12.82	4.60	0	1	-13898	0.24	12.82	4.60	0	1	-13897	0.17	12.82	4.60	0	1
-13896	0.09	12.82	4.60	0	1	-13895	0.02	12.82	4.60	0	1	-13894	-0.06	12.82	4.60	0	1
-13893	-0.14	12.82	4.60	0	1	-13892	-0.24	12.82	4.60	0	1	-13891	-0.33	12.82	4.60	0	1
-13890	-0.41	12.82	4.60	0	1	-13889	-0.50	12.82	4.60	0	1	-13888	0.91	8.82	4.60	0	1
-13887	0.59	8.82	4.60	0	1	-13886	2.00	4.81	4.60	0	1	-13885	1.91	4.81	4.60	0	1
-13884	1.83	4.81	4.60	0	1	-13883	1.74	4.81	4.60	0	1	-13882	1.64	4.81	4.60	0	1
-13881	1.56	4.81	4.60	0	1	-13880	1.48	4.81	4.60	0	1	-13879	1.41	4.81	4.60	0	1
-13878	1.33	4.81	4.60	0	1	-13877	1.26	4.81	4.60	0	1	-13876	1.18	4.81	4.60	0	1
-13875	1.09	4.81	4.60	0	1	-13874	1.00	4.81	4.60	0	1	-13873	0.94	4.81	4.60	0	1
-13872	0.88	4.81	4.60	0	1	-13871	0.81	4.81	4.60	0	1	-13870	0.75	4.81	4.60	0	1
-13869	0.69	4.81	4.60	0	1	-13868	0.63	4.81	4.60	0	1	-13867	0.56	4.81	4.60	0	1
-13866	0.50	4.81	4.60	0	1	-13865	0.41	4.81	4.60	0	1	-13864	0.32	4.81	4.60	0	1
-13863	0.24	4.81	4.60	0	1	-13862	0.17	4.81	4.60	0	1	-13861	0.09	4.81	4.60	0	1
-13860	0.02	4.81	4.60	0	1	-13859	-0.06	4.81	4.60	0	1	-13858	-0.14	4.81	4.60	0	1
-13857	-0.24	4.81	4.60	0	1	-13856	-0.33	4.81	4.60	0	1	-13855	-0.41	4.81	4.60	0	1
-13854	-0.50	4.81	4.60	0	1	-13853	2.00	12.92	4.59	0	1	-13852	1.91	12.92	4.59	0	1
-13851	1.83	12.92	4.59	0	1	-13850	1.74	12.92	4.59	0	1	-13849	1.65	12.92	4.59	0	1
-13848	1.56	12.92	4.59	0	1	-13847	1.48	12.92	4.59	0	1	-13846	1.41	12.92	4.59	0	1
-13845	1.33	12.92	4.59	0	1	-13844	1.25	12.92	4.59	0	1	-13843	1.17	12.92	4.59	0	1
-13842	1.09	12.92	4.59	0	1	-13841	1.00	12.92	4.59	0	1	-13840	0.94	12.92	4.59	0	1
-13839	0.88	12.92	4.59	0	1	-13838	0.81	12.92	4.59	0	1	-13837	0.75	12.92	4.59	0	1
-13836	0.69	12.92	4.59	0	1	-13835	0.63	12.92	4.59	0	1	-13834	0.56	12.92	4.59	0	1
-13833	0.50	12.92	4.59	0	1	-13832	0.41	12.92	4.59	0	1	-13831	0.33	12.92	4.59	0	1
-13830	0.25	12.92	4.59	0	1	-13829	0.17	12.92	4.59	0	1	-13828	0.09	12.92	4.59	0	1
-13827	0.02	12.92	4.59	0	1	-13826	-0.06	12.92	4.59	0	1	-13825	-0.15	12.92	4.59	0	1
-13824	-0.24	12.92	4.59	0	1	-13823	-0.33	12.92	4.59	0	1	-13822	-0.41	12.92	4.59	0	1
-13821	-0.50	12.92	4.59	0	1	-13820	2.00	4.71	4.59	0	1	-13819	1.91	4.71	4.59	0	1
-13818	1.83	4.71	4.59	0	1	-13817	1.74	4.71	4.59	0	1	-13816	1.65	4.71	4.59	0	1
-13815	1.56	4.71	4.59	0	1	-13814	1.48	4.71	4.59	0	1	-13813	1.41	4.71	4.59	0	1
-13812	1.33	4.71	4.59	0	1	-13811	1.25	4.71	4.59	0	1	-13810	1.17	4.71	4.59	0	1
-13809	1.09	4.71	4.59	0	1	-13808	1.00	4.71	4.59	0	1	-13807	0.94	4.71	4.59	0	1
-13806	0.88	4.71	4.59	0	1	-13805	0.81	4.71	4.59	0	1	-13804	0.75	4.71	4.59	0	1
-13803	0.69	4.71	4.59	0	1	-13802	0.63	4.71	4.59	0	1	-13801	0.56	4.71	4.59	0	1
-13800	0.50	4.71	4.59	0	1	-13799	0.41	4.71	4.59	0	1	-13798	0.33	4.71	4.59	0	1
-13797	0.25	4.71	4.59	0	1	-13796	0.17	4.71	4.59	0	1	-13795	0.09	4.71	4.59	0	1
-13794	0.02	4.71	4.59	0	1	-13793	-0.06	4.71	4.59	0	1	-13792	-0.15	4.71	4.59	0	1
-13791	-0.24	4.71	4.59	0	1	-13790	-0.33	4.71	4.59	0	1	-13789	-0.41	4.71	4.59	0	1
-13788	-0.50	4.71	4.59	0	1	-13787	2.00	13.02	4.59	0	1	-13786	1.91	13.02	4.59	0	1
-13785	1.82	13.02	4.59	0	1	-13784	1.74	13.02	4.59	0	1	-13783	1.65	13.02	4.59	0	1
-13782	1.57	13.02	4.59	0	1	-13781	1.49	13.02	4.59	0	1	-13780	1.41	13.02	4.59	0	1
-13779	1.33	13.02	4.59	0	1	-13778	1.25	13.02	4.59	0	1	-13777	1.17	13.02	4.59	0	1
-13776	1.09	13.02	4.59	0	1	-13775	1.00	13.02	4.59	0	1	-13774	0.94	13.02	4.59	0	1

-13773	0.88	13.02	4.59	0	1	-13772	0.81	13.02	4.59	0	1	-13771	0.75	13.02	4.59	0	1
-13770	0.69	13.02	4.59	0	1	-13769	0.63	13.02	4.59	0	1	-13768	0.56	13.02	4.59	0	1
-13767	0.50	13.02	4.59	0	1	-13766	0.41	13.02	4.59	0	1	-13765	0.33	13.02	4.59	0	1
-13764	0.25	13.02	4.59	0	1	-13763	0.17	13.02	4.59	0	1	-13762	0.09	13.02	4.59	0	1
-13761	0.01	13.02	4.59	0	1	-13760	-0.07	13.02	4.59	0	1	-13759	-0.15	13.02	4.59	0	1
-13758	-0.24	13.02	4.59	0	1	-13757	-0.32	13.02	4.59	0	1	-13756	-0.41	13.02	4.59	0	1
-13755	-0.50	13.02	4.59	0	1	-13754	2.00	4.61	4.59	0	1	-13753	1.91	4.61	4.59	0	1
-13752	1.82	4.61	4.59	0	1	-13751	1.74	4.61	4.59	0	1	-13750	1.65	4.61	4.59	0	1
-13749	1.57	4.61	4.59	0	1	-13748	1.49	4.61	4.59	0	1	-13747	1.41	4.61	4.59	0	1
-13746	1.33	4.61	4.59	0	1	-13745	1.25	4.61	4.59	0	1	-13744	1.17	4.61	4.59	0	1
-13743	1.09	4.61	4.59	0	1	-13742	1.00	4.61	4.59	0	1	-13741	0.94	4.61	4.59	0	1
-13740	0.88	4.61	4.59	0	1	-13739	0.81	4.61	4.59	0	1	-13738	0.75	4.61	4.59	0	1
-13737	0.69	4.61	4.59	0	1	-13736	0.63	4.61	4.59	0	1	-13735	0.56	4.61	4.59	0	1
-13734	0.50	4.61	4.59	0	1	-13733	0.41	4.61	4.59	0	1	-13732	0.33	4.61	4.59	0	1
-13731	0.25	4.61	4.59	0	1	-13730	0.17	4.61	4.59	0	1	-13729	0.09	4.61	4.59	0	1
-13728	0.01	4.61	4.59	0	1	-13727	-0.07	4.61	4.59	0	1	-13726	-0.15	4.61	4.59	0	1
-13725	-0.24	4.61	4.59	0	1	-13724	-0.32	4.61	4.59	0	1	-13723	-0.41	4.61	4.59	0	1
-13722	-0.50	4.61	4.59	0	1	-13721	2.00	13.12	4.59	0	1	-13720	1.91	13.12	4.59	0	1
-13719	1.82	13.12	4.59	0	1	-13718	1.74	13.12	4.59	0	1	-13717	1.65	13.12	4.59	0	1
-13716	1.57	13.12	4.59	0	1	-13715	1.49	13.12	4.59	0	1	-13714	1.41	13.12	4.59	0	1
-13713	1.33	13.12	4.59	0	1	-13712	1.25	13.12	4.59	0	1	-13711	1.17	13.12	4.59	0	1
-13710	1.09	13.12	4.59	0	1	-13709	1.00	13.12	4.59	0	1	-13708	0.94	13.12	4.59	0	1
-13707	0.88	13.12	4.59	0	1	-13706	0.81	13.12	4.59	0	1	-13705	0.75	13.12	4.59	0	1
-13704	0.69	13.12	4.59	0	1	-13703	0.63	13.12	4.59	0	1	-13702	0.56	13.12	4.59	0	1
-13701	0.50	13.12	4.59	0	1	-13700	0.41	13.12	4.59	0	1	-13699	0.33	13.12	4.59	0	1
-13698	0.25	13.12	4.59	0	1	-13697	0.17	13.12	4.59	0	1	-13696	0.09	13.12	4.59	0	1
-13695	0.01	13.12	4.59	0	1	-13694	-0.07	13.12	4.59	0	1	-13693	-0.15	13.12	4.59	0	1
-13692	-0.24	13.12	4.59	0	1	-13691	-0.32	13.12	4.59	0	1	-13690	-0.41	13.12	4.59	0	1
-13689	-0.50	13.12	4.59	0	1	-13688	2.00	4.52	4.59	0	1	-13687	1.91	4.52	4.59	0	1
-13686	1.82	4.52	4.59	0	1	-13685	1.74	4.52	4.59	0	1	-13684	1.65	4.52	4.59	0	1
-13683	1.57	4.52	4.59	0	1	-13682	1.49	4.52	4.59	0	1	-13681	1.41	4.52	4.59	0	1
-13680	1.33	4.52	4.59	0	1	-13679	1.25	4.52	4.59	0	1	-13678	1.17	4.52	4.59	0	1
-13677	1.09	4.52	4.59	0	1	-13676	1.00	4.52	4.59	0	1	-13675	0.94	4.52	4.59	0	1
-13674	0.88	4.52	4.59	0	1	-13673	0.81	4.52	4.59	0	1	-13672	0.75	4.52	4.59	0	1
-13671	0.69	4.52	4.59	0	1	-13670	0.63	4.52	4.59	0	1	-13669	0.56	4.52	4.59	0	1
-13668	0.50	4.52	4.59	0	1	-13667	0.41	4.52	4.59	0	1	-13666	0.33	4.52	4.59	0	1
-13665	0.25	4.52	4.59	0	1	-13664	0.17	4.52	4.59	0	1	-13663	0.09	4.52	4.59	0	1
-13662	0.01	4.52	4.59	0	1	-13661	-0.07	4.52	4.59	0	1	-13660	-0.15	4.52	4.59	0	1
-13659	-0.24	4.52	4.59	0	1	-13658	-0.32	4.52	4.59	0	1	-13657	-0.41	4.52	4.59	0	1
-13656	-0.50	4.52	4.59	0	1	-13655	2.00	13.21	4.59	0	1	-13654	1.91	13.21	4.59	0	1
-13653	1.82	13.21	4.59	0	1	-13652	1.74	13.21	4.59	0	1	-13651	1.65	13.21	4.59	0	1
-13650	1.57	13.21	4.59	0	1	-13649	1.49	13.21	4.59	0	1	-13648	1.41	13.21	4.59	0	1
-13647	1.33	13.21	4.59	0	1	-13646	1.25	13.21	4.59	0	1	-13645	1.17	13.21	4.59	0	1
-13644	1.09	13.21	4.59	0	1	-13643	1.00	13.21	4.59	0	1	-13642	0.94	13.21	4.59	0	1
-13641	0.88	13.21	4.59	0	1	-13640	0.81	13.21	4.59	0	1	-13639	0.75	13.21	4.59	0	1
-13638	0.69	13.21	4.59	0	1	-13637	0.63	13.21	4.59	0	1	-13636	0.56	13.21	4.59	0	1
-13635	0.50	13.21	4.59	0	1	-13634	0.41	13.21	4.59	0	1	-13633	0.33	13.21	4.59	0	1
-13632	0.25	13.21	4.59	0	1	-13631	0.17	13.21	4.59	0	1	-13630	0.09	13.21	4.59	0	1
-13629	0.01	13.21	4.59	0	1	-13628	-0.07	13.21	4.59	0	1	-13627	-0.15	13.21	4.59	0	1
-13626	-0.24	13.21	4.59	0	1	-13625	-0.32	13.21	4.59	0	1	-13624	-0.41	13.21	4.59	0	1
-13623	-0.50	13.21	4.59	0	1	-13622	2.00	4.42	4.59	0	1	-13621	1.91	4.42	4.59	0	1
-13620	1.82	4.42	4.59	0	1	-13619	1.74	4.42	4.59	0	1	-13618	1.65	4.42	4.59	0	1
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-13614	1.33	4.42	4.59	0	1	-13613	1.25	4.42	4.59	0	1	-13612	1.17	4.42	4.59	0	1
-13611	1.09	4.42	4.59	0	1	-13610	1.00	4.42	4.59	0	1	-13609	0.94	4.42	4.59	0	1
-13608	0.88	4.42	4.59	0	1	-13607	0.81	4.42	4.59	0	1	-13606	0.75	4.42	4.59	0	1
-13605	0.69	4.42	4.59	0	1	-13604	0.63	4.42	4.59	0	1	-13603	0.56	4.42	4.59	0	1
-13602	0.50	4.42	4.59	0	1	-13601	0.41	4.42	4.59	0	1	-13600	0.33	4.42	4.59	0	1
-13599	0.25	4.42	4.59	0	1	-13598	0.17	4.42	4.59	0	1	-13597	0.09	4.42	4.59	0	1
-13596	0.01	4.42	4.59	0	1	-13595	-0.07	4.42	4.59	0	1	-13594	-0.15	4.42	4.59	0	1
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-13590	-0.50	4.42	4.59	0	1	-13589	2.00	13.31	4.59	0	1	-13588	1.91	13.31	4.59	0	1
-13587	1.82	13.31	4.59	0	1	-13586	1.74	13.31	4.59	0	1	-13585	1.65	13.31	4.59	0	1
-13584	1.57	13.31	4.59	0	1	-13583	1.49	13.31	4.59	0	1	-13582	1.41	13.31	4.59	0	1
-13581	1.33	13.31	4.59	0	1	-13580	1.25	13.31	4.59	0	1	-13579	1.17	13.31	4.59	0	1
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-13557	-0.50	13.31	4.59	0	1	-13556	2.00	4.32	4.59	0	1	-13555	1.91	4.32	4.59	0	1
-13554	1.82	4.32	4.59	0	1	-13553	1.74	4.32	4.59	0	1	-13552	1.65	4.32	4.59	0	1
-13551	1.57	4.32	4.59	0	1	-13550	1.49	4.32	4.59	0	1	-13549	1.41	4.32	4.59	0	1
-13548	1.33	4.32	4.59	0	1	-13547	1.25	4.32	4.59	0	1	-13546	1.17	4.32	4.59	0	1
-13545	1.09	4.32	4.59	0	1	-13544	1.00	4.32	4.59	0	1	-13543	0.94	4.32	4.59	0	1
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-13533	0.25	4.32	4.59	0	1	-13532	0.17	4.32	4.59	0	1	-13531	0.09	4.32	4.59	0	1
-13530	0.01	4.32	4.59	0	1	-13529	-0.07	4.32	4.59	0	1	-13528	-0.15	4.32	4.59	0	1
-13527	-0.24	4.32	4.59	0	1	-13526	-0.32	4.32	4.59	0	1	-13525	-0.41	4.32	4.59	0	1
-13524	-0.50	4.32	4.59	0	1	-13523	2.00	13.41	4.59	0	1	-13522	1.91	13.41	4.59	0	1
-13521	1.82	13.41	4.59	0	1	-13520	1.74	13.41	4.59	0	1	-13519	1.65	13.41	4.59	0	1
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-13509	0.88	13.41	4.59	0	1	-13508	0.81	13.41	4.59	0	1	-13507	0.75	13.41	4.59	0	1
-13506	0.69	13.41	4.59	0	1	-13505	0.63	13.41	4.59	0	1	-13504	0.56	13.41	4.59	0	1
-13503	0.50	13.41	4.59	0	1	-13502	0.41	13.41	4.59	0	1	-13501	0.33	13.41	4.59	0	1
-13500	0.25	13.41	4.59	0	1	-13499	0.17	13.41	4.59	0	1	-13498	0.09	13.41	4.59	0	1
-13497	0.01	13.41	4.59	0	1	-13496	-0.07	13.41	4.59	0	1	-13495	-0.15	13.41	4.59	0	1
-13494	-0.24	13.41	4.59	0	1	-13493	-0.32	13.41	4.59	0	1	-13492	-0.41	13.41	4.59	0	1
-13491	-0.50	13.41	4.59	0	1	-13490	0.88	9.79	4.59	0	1	-13489	0.63	9.79	4.59	0	1
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-13485	1.91	4.22	4.59	0	1	-13484	1.82	4.22	4.59	0	1	-13483	1.74	4.22	4.59	0	1
-13482	1.65	4.22	4.59	0	1	-13481	1.57	4.22	4.59	0	1	-13480	1.49	4.22	4.59	0	1
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-13473	0.94	4.22	4.59	0	1	-13472	0.88	4.22	4.59	0	1	-13471	0.81	4.22	4.59	0	1
-13470	0.75	4.22	4.59	0	1	-13469	0.69	4.22	4.59	0	1	-13468	0.63	4.22	4.59	0	1
-13467	0.56	4.22	4.59	0	1	-13466	0.50	4.22	4.59	0	1	-13465	0.41	4.22	4.59	0	1
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-13455	-0.41	4.22	4.59	0	1	-13454	-0.50	4.22	4.59	0	1	-13453	2.00	13.51	4.59	0	1
-13452	1.91	13.51	4.59	0	1	-13451	1.83	13.51	4.59	0	1	-13450	1.74	13.51	4.59	0	1
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-13443	1.17	13.51	4.59	0	1	-13442	1.09	13.51	4.59	0	1	-13441	1.00	13.51	4.59	0	1
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-13437	0.75	13.51	4.59	0	1	-13436	0.69	13.51	4.59	0	1	-13435	0.63	13.51	4.59	0	1
-13434	0.56	13.51	4.59	0	1	-13433	0.50	13.51	4.59	0	1	-13432	0.41	13.51	4.59	0	1
-13431	0.33	13.51	4.59	0	1	-13430	0.25	13.51	4.59	0	1	-13429	0.17	13.51	4.59	0	1
-13428	0.09	13.51	4.59	0	1	-13427	0.02	13.51	4.59	0	1	-13426	-0.06	13.51	4.59	0	1
-13425	-0.15	13.51	4.59	0	1	-13424	-0.24	13.51	4.59	0	1	-13423	-0.33	13.51	4.59	0	1
-13422	-0.41	13.51	4.59	0	1	-13421	-0.50	13.51	4.59	0	1	-13420	1.73	12.73	4.58	0	1
-13419	-0.23	12.73	4.58	0	1	-13418	1.64	11.75	4.58	0	1	-13417	-0.14	11.75	4.58	0	1
-13416	1.64	5.88	4.58	0	1	-13415	-0.14	5.88	4.58	0	1	-13414	2.00	4.12	4.59	0	1
-13413	1.91	4.12	4.59	0	1	-13412	1.83	4.12	4.59	0	1	-13411	1.74	4.12	4.59	0	1
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-13392	0.33	4.12	4.59	0	1	-13391	0.25	4.12	4.59	0	1	-13390	0.17	4.12	4.59	0	1
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-13383	-0.41	4.12	4.59	0	1	-13382	-0.50	4.12	4.59	0	1	-13381	2.00	13.61	4.58	0	1
-13380	1.91	13.61	4.58	0	1	-13379	1.83	13.61	4.58	0	1	-13378	1.74	13.61	4.58	0	1
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-13365	0.75	13.61	4.58	0	1	-13364	0.69	13.61	4.58	0	1	-13363	0.63	13.61	4.58	0	1
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-13347	2.00	4.03	4.58	0	1	-13346	1.91	4.03	4.58	0	1	-13345	1.83	4.03	4.58	0	1
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-13338	1.26	4.03	4.58	0	1	-13337	1.18	4.03	4.58	0	1	-13336	1.09	4.03	4.58	0	1
-13335	1.00	4.03	4.58	0	1	-13334	0.94	4.03	4.58	0	1	-13333	0.88	4.03	4.58	0	1
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-13317	-0.33	4.03	4.58	0	1	-13316	-0.41	4.03	4.58	0	1	-13315	-0.50	4.03	4.58	0	1
-13314	2.00	13.70	4.58	0	1	-13313	1.92	13.70	4.58	0	1	-13312	1.83	13.70	4.58	0	1
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-13305	1.26	13.70	4.58	0	1	-13304	1.19	13.70	4.58	0	1	-13303	1.09	13.70	4.58	0	1
-13302	1.00	13.70	4.58	0	1	-13301	0.94	13.70	4.58	0	1	-13300	0.88	13.70	4.58	0	1



-13299	0.81	13.70	4.58	0	1	-13298	0.75	13.70	4.58	0	1	-13297	0.69	13.70	4.58	0	1
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-13293	0.41	13.70	4.58	0	1	-13292	0.31	13.70	4.58	0	1	-13291	0.24	13.70	4.58	0	1
-13290	0.17	13.70	4.58	0	1	-13289	0.10	13.70	4.58	0	1	-13288	0.03	13.70	4.58	0	1
-13287	-0.06	13.70	4.58	0	1	-13286	-0.14	13.70	4.58	0	1	-13285	-0.23	13.70	4.58	0	1
-13284	-0.33	13.70	4.58	0	1	-13283	-0.42	13.70	4.58	0	1	-13282	-0.50	13.70	4.58	0	1
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-13266	1.00	3.93	4.58	0	1	-13265	0.94	3.93	4.58	0	1	-13264	0.88	3.93	4.58	0	1
-13263	0.81	3.93	4.58	0	1	-13262	0.75	3.93	4.58	0	1	-13261	0.69	3.93	4.58	0	1
-13260	0.63	3.93	4.58	0	1	-13259	0.56	3.93	4.58	0	1	-13258	0.50	3.93	4.58	0	1
-13257	0.41	3.93	4.58	0	1	-13256	0.31	3.93	4.58	0	1	-13255	0.24	3.93	4.58	0	1
-13254	0.17	3.93	4.58	0	1	-13253	0.10	3.93	4.58	0	1	-13252	0.03	3.93	4.58	0	1
-13251	-0.06	3.93	4.58	0	1	-13250	-0.14	3.93	4.58	0	1	-13249	-0.23	3.93	4.58	0	1
-13248	-0.33	3.93	4.58	0	1	-13247	-0.42	3.93	4.58	0	1	-13246	-0.50	3.93	4.58	0	1
-13245	2.00	13.80	4.58	0	1	-13244	1.92	13.80	4.58	0	1	-13243	1.83	13.80	4.58	0	1
-13242	1.74	13.80	4.58	0	1	-13241	1.65	13.80	4.58	0	1	-13240	1.57	13.80	4.58	0	1
-13239	1.49	13.80	4.58	0	1	-13238	1.41	13.80	4.58	0	1	-13237	1.33	13.80	4.58	0	1
-13236	1.26	13.80	4.58	0	1	-13235	1.18	13.80	4.58	0	1	-13234	1.09	13.80	4.58	0	1
-13233	1.00	13.80	4.58	0	1	-13232	0.94	13.80	4.58	0	1	-13231	0.88	13.80	4.58	0	1
-13230	0.81	13.80	4.58	0	1	-13229	0.75	13.80	4.58	0	1	-13228	0.69	13.80	4.58	0	1
-13227	0.63	13.80	4.58	0	1	-13226	0.56	13.80	4.58	0	1	-13225	0.50	13.80	4.58	0	1
-13224	0.41	13.80	4.58	0	1	-13223	0.32	13.80	4.58	0	1	-13222	0.24	13.80	4.58	0	1
-13221	0.17	13.80	4.58	0	1	-13220	0.09	13.80	4.58	0	1	-13219	0.02	13.80	4.58	0	1
-13218	-0.06	13.80	4.58	0	1	-13217	-0.14	13.80	4.58	0	1	-13216	-0.24	13.80	4.58	0	1
-13215	-0.33	13.80	4.58	0	1	-13214	-0.41	13.80	4.58	0	1	-13213	-0.50	13.80	4.58	0	1
-13212	2.00	3.83	4.58	0	1	-13211	1.91	3.83	4.58	0	1	-13210	1.83	3.83	4.58	0	1
-13209	1.74	3.83	4.58	0	1	-13208	1.64	3.83	4.58	0	1	-13207	1.56	3.83	4.58	0	1
-13206	1.48	3.83	4.58	0	1	-13205	1.41	3.83	4.58	0	1	-13204	1.33	3.83	4.58	0	1
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-13200	1.00	3.83	4.58	0	1	-13199	0.94	3.83	4.58	0	1	-13198	0.88	3.83	4.58	0	1
-13197	0.81	3.83	4.58	0	1	-13196	0.75	3.83	4.58	0	1	-13195	0.69	3.83	4.58	0	1
-13194	0.63	3.83	4.58	0	1	-13193	0.56	3.83	4.58	0	1	-13192	0.50	3.83	4.58	0	1
-13191	0.41	3.83	4.58	0	1	-13190	0.24	3.83	4.58	0	1	-13189	0.17	3.83	4.58	0	1
-13188	0.09	3.83	4.58	0	1	-13187	0.02	3.83	4.58	0	1	-13186	-0.14	3.83	4.58	0	1
-13185	-0.33	3.83	4.58	0	1	-13184	-0.41	3.83	4.58	0	1	-13183	-0.50	3.83	4.58	0	1
-13182	2.00	13.90	4.58	0	1	-13181	1.92	13.90	4.58	0	1	-13180	1.83	13.90	4.58	0	1
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-13173	1.17	13.90	4.58	0	1	-13172	0.88	13.90	4.58	0	1	-13171	0.63	13.90	4.58	0	1
-13170	1.48	8.82	4.58	0	1	-13169	0.32	3.83	4.58	0	1	-13168	-0.06	3.83	4.58	0	1
-13167	-0.24	3.83	4.58	0	1	-13166	1.66	13.90	4.58	0	1	-13165	1.09	13.90	4.58	0	1
-13164	1.00	13.90	4.58	0	1	-13163	0.94	13.90	4.58	0	1	-13162	0.81	13.90	4.58	0	1
-13161	0.75	13.90	4.58	0	1	-13160	0.69	13.90	4.58	0	1	-13159	0.56	13.90	4.58	0	1
-13158	0.50	13.90	4.58	0	1	-13157	0.41	13.90	4.58	0	1	-13156	0.33	13.90	4.58	0	1
-13155	0.25	13.90	4.58	0	1	-13154	0.17	13.90	4.58	0	1	-13153	0.09	13.90	4.58	0	1
-13152	0.02	13.90	4.58	0	1	-13151	-0.06	13.90	4.58	0	1	-13150	-0.15	13.90	4.58	0	1
-13149	-0.24	13.90	4.58	0	1	-13148	-0.33	13.90	4.58	0	1	-13147	-0.41	13.90	4.58	0	1
-13146	-0.50	13.90	4.58	0	1	-13145	0.03	8.82	4.58	0	1	-13144	0.63	9.70	4.58	0	1
-13143	0.88	8.72	4.58	0	1	-13142	0.63	8.72	4.58	0	1	-13141	0.63	7.94	4.58	0	1
-13140	2.00	3.73	4.58	0	1	-13139	1.91	3.73	4.58	0	1	-13138	1.83	3.73	4.58	0	1
-13137	1.74	3.73	4.58	0	1	-13136	1.65	3.73	4.58	0	1	-13135	1.56	3.73	4.58	0	1
-13134	1.48	3.73	4.58	0	1	-13133	1.41	3.73	4.58	0	1	-13132	1.33	3.73	4.58	0	1
-13131	1.25	3.73	4.58	0	1	-13130	1.09	3.73	4.58	0	1	-13129	0.81	3.73	4.58	0	1
-13128	0.63	3.73	4.58	0	1	-13127	0.50	3.73	4.58	0	1	-13126	1.25	14.00	4.58	0	1
-13125	0.94	14.00	4.58	0	1	-13124	-0.15	14.00	4.58	0	1	-13123	-0.50	14.00	4.58	0	1
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-13119	0.94	3.73	4.58	0	1	-13118	0.88	3.73	4.58	0	1	-13117	0.75	3.73	4.58	0	1
-13116	0.56	3.73	4.58	0	1	-13115	0.41	3.73	4.58	0	1	-13114	0.33	3.73	4.58	0	1
-13113	0.25	3.73	4.58	0	1	-13112	0.17	3.73	4.58	0	1	-13111	0.09	3.73	4.58	0	1
-13110	0.02	3.73	4.58	0	1	-13109	-0.06	3.73	4.58	0	1	-13108	-0.24	3.73	4.58	0	1
-13107	-0.33	3.73	4.58	0	1	-13106	-0.41	3.73	4.58	0	1	-13105	-0.50	3.73	4.58	0	1
-13104	2.00	14.00	4.58	0	1	-13103	1.83	14.00	4.58	0	1	-13102	1.75	14.00	4.58	0	1
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-13098	1.33	14.00	4.58	0	1	-13097	1.17	14.00	4.58	0	1	-13096	1.08	14.00	4.58	0	1
-13095	1.00	14.00	4.58	0	1	-13094	0.81	14.00	4.58	0	1	-13093	0.75	14.00	4.58	0	1
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-13089	0.50	14.00	4.58	0	1	-13088	0.33	14.00	4.58	0	1	-13087	0.88	8.91	4.58	0	1
-13086	0.88	7.94	4.58	0	1	-13085	0.69	3.73	4.58	0	1	-13084	-0.15	3.73	4.58	0	1
-13083	1.92	14.00	4.58	0	1	-13082	1.66	14.00	4.58	0	1	-13081	0.88	14.00	4.58	0	1
-13080	0.41	14.00	4.58	0	1	-13079	0.25	14.00	4.58	0	1	-13078	0.17	14.00	4.58	0	1
-13077	0.09	14.00	4.58	0	1	-13076	0.01	14.00	4.58	0	1	-13075	-0.07	14.00	4.58	0	1
-13074	-0.24	14.00	4.58	0	1	-13073	-0.32	14.00	4.58	0	1	-13072	-0.41	14.00	4.58	0	1
-13071	0.88	9.70	4.58	0	1	-13070	2.00	3.64	4.58	0	1	-13069	1.91	3.64	4.58	0	1
-13068	1.82	3.64	4.58	0	1	-13067	1.74	3.64	4.58	0	1	-13066	1.65	3.64	4.58	0	1
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-13062	1.33	3.64	4.58	0	1	-13061	1.25	3.64	4.58	0	1	-13060	1.17	3.64	4.58	0	1
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-13056	0.88	3.64	4.58	0	1	-13055	0.81	3.64	4.58	0	1	-13054	0.75	3.64	4.58	0	1
-13053	0.69	3.64	4.58	0	1	-13052	0.63	3.64	4.58	0	1	-13051	0.56	3.64	4.58	0	1
-13050	0.50	3.64	4.58	0	1	-13049	0.41	3.64	4.58	0	1	-13048	0.33	3.64	4.58	0	1
-13047	0.25	3.64	4.58	0	1	-13046	0.17	3.64	4.58	0	1	-13045	0.09	3.64	4.58	0	1
-13044	0.01	3.64	4.58	0	1	-13043	-0.07	3.64	4.58	0	1	-13042	-0.15	3.64	4.58	0	1
-13041	-0.24	3.64	4.58	0	1	-13040	-0.32	3.64	4.58	0	1	-13039	-0.41	3.64	4.58	0	1
-13038	-0.50	3.64	4.58	0	1	-13037	2.00	14.09	4.58	0	1	-13036	1.92	14.09	4.58	0	1
-13035	1.83	14.09	4.58	0	1	-13034	1.75	14.09	4.58	0	1	-13033	1.66	14.09	4.58	0	1
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-13029	1.33	14.09	4.58	0	1	-13028	1.25	14.09	4.58	0	1	-13027	1.17	14.09	4.58	0	1
-13026	1.08	14.09	4.58	0	1	-13025	1.00	14.09	4.58	0	1	-13024	0.94	14.09	4.58	0	1
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-13017	0.50	14.09	4.58	0	1	-13016	0.41	14.09	4.58	0	1	-13015	0.33	14.09	4.58	0	1
-13014	0.25	14.09	4.58	0	1	-13013	0.17	14.09	4.58	0	1	-13012	0.09	14.09	4.58	0	1
-13011	0.01	14.09	4.58	0	1	-13010	-0.07	14.09	4.58	0	1	-13009	-0.15	14.09	4.58	0	1
-13008	-0.24	14.09	4.58	0	1	-13007	-0.32	14.09	4.58	0	1	-13006	-0.41	14.09	4.58	0	1
-13005	-0.50	14.09	4.58	0	1	-13004	0.88	9.60	4.58	0	1	-13003	0.63	9.60	4.58	0	1
-13002	0.88	9.50	4.58	0	1	-13001	0.63	9.50	4.58	0	1	-13000	0.88	9.11	4.58	0	1
-12999	0.63	9.11	4.58	0	1	-12998	0.88	9.01	4.58	0	1	-12997	0.63	9.01	4.58	0	1
-12996	0.88	8.62	4.58	0	1	-12995	0.63	8.62	4.58	0	1	-12994	0.88	8.52	4.58	0	1
-12993	0.63	8.52	4.58	0	1	-12992	0.63	8.13	4.58	0	1	-12991	0.88	8.03	4.58	0	1
-12990	0.63	8.03	4.58	0	1	-12989	2.00	3.54	4.58	0	1	-12988	1.91	3.54	4.58	0	1
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-12975	0.75	3.54	4.58	0	1	-12974	0.69	3.54	4.58	0	1	-12973	0.63	3.54	4.58	0	1
-12972	0.50	3.54	4.58	0	1	-12971	0.41	3.54	4.58	0	1	-12970	0.25	3.54	4.58	0	1
-12969	-0.07	3.54	4.58	0	1	-12968	-0.15	3.54	4.58	0	1	-12967	1.67	14.19	4.57	0	1
-12966	0.63	8.33	4.57	0	1	-12965	0.88	8.13	4.58	0	1	-12964	1.00	3.54	4.58	0	1
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-12960	0.17	3.54	4.58	0	1	-12959	0.09	3.54	4.58	0	1	-12958	0.01	3.54	4.58	0	1
-12957	-0.24	3.54	4.58	0	1	-12956	-0.32	3.54	4.58	0	1	-12955	-0.41	3.54	4.58	0	1
-12954	-0.50	3.54	4.58	0	1	-12953	2.00	14.19	4.57	0	1	-12952	1.92	14.19	4.57	0	1
-12951	1.83	14.19	4.57	0	1	-12950	1.75	14.19	4.57	0	1	-12949	1.58	14.19	4.57	0	1
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-12936	0.63	14.19	4.57	0	1	-12935	0.56	14.19	4.57	0	1	-12934	0.50	14.19	4.57	0	1
-12933	0.41	14.19	4.57	0	1	-12932	0.33	14.19	4.57	0	1	-12931	0.25	14.19	4.57	0	1
-12930	0.17	14.19	4.57	0	1	-12929	0.09	14.19	4.57	0	1	-12928	0.01	14.19	4.57	0	1
-12927	-0.07	14.19	4.57	0	1	-12926	-0.15	14.19	4.57	0	1	-12925	-0.24	14.19	4.57	0	1
-12924	-0.32	14.19	4.57	0	1	-12923	-0.41	14.19	4.57	0	1	-12922	-0.50	14.19	4.57	0	1
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-12918	0.63	9.30	4.57	0	1	-12917	0.88	9.21	4.57	0	1	-12916	0.63	9.21	4.57	0	1
-12915	0.39	8.82	4.57	0	1	-12914	0.88	8.43	4.57	0	1	-12913	0.63	8.43	4.57	0	1
-12912	0.88	8.33	4.57	0	1	-12911	0.88	8.23	4.57	0	1	-12910	0.63	8.23	4.57	0	1
-12909	2.00	3.44	4.57	0	1	-12908	1.91	3.44	4.57	0	1	-12907	1.82	3.44	4.57	0	1
-12906	1.74	3.44	4.57	0	1	-12905	1.65	3.44	4.57	0	1	-12904	1.57	3.44	4.57	0	1
-12903	1.49	3.44	4.57	0	1	-12902	1.41	3.44	4.57	0	1	-12901	1.33	3.44	4.57	0	1
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-12897	1.00	3.44	4.57	0	1	-12896	0.94	3.44	4.57	0	1	-12895	0.88	3.44	4.57	0	1
-12894	0.81	3.44	4.57	0	1	-12893	0.75	3.44	4.57	0	1	-12892	0.69	3.44	4.57	0	1
-12891	0.63	3.44	4.57	0	1	-12890	0.56	3.44	4.57	0	1	-12889	0.50	3.44	4.57	0	1
-12888	0.41	3.44	4.57	0	1	-12887	0.33	3.44	4.57	0	1	-12886	0.25	3.44	4.57	0	1
-12885	0.17	3.44	4.57	0	1	-12884	0.09	3.44	4.57	0	1	-12883	0.01	3.44	4.57	0	1
-12882	-0.07	3.44	4.57	0	1	-12881	-0.15	3.44	4.57	0	1	-12880	-0.24	3.44	4.57	0	1
-12879	-0.32	3.44	4.57	0	1	-12878	-0.41	3.44	4.57	0	1	-12877	-0.50	3.44	4.57	0	1
-12876	2.00	14.29	4.57	0	1	-12875	1.92	14.29	4.57	0	1	-12874	1.83	14.29	4.57	0	1
-12873	1.75	14.29	4.57	0	1	-12872	1.66	14.29	4.57	0	1	-12871	1.58	14.29	4.57	0	1
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-12867	1.25	14.29	4.57	0	1	-12866	1.17	14.29	4.57	0	1	-12865	1.08	14.29	4.57	0	1
-12864	1.00	14.29	4.57	0	1	-12863	0.94	14.29	4.57	0	1	-12862	0.88	14.29	4.57	0	1
-12861	0.81	14.29	4.57	0	1	-12860	0.75	14.29	4.57	0	1	-12859	0.69	14.29	4.57	0	1
-12858	0.63	14.29	4.57	0	1	-12857	0.56	14.29	4.57	0	1	-12856	0.50	14.29	4.57	0	1
-12855	0.41	14.29	4.57	0	1	-12854	0.33	14.29	4.57	0	1	-12853	0.25	14.29	4.57	0	1
-12852	0.17	14.29	4.57	0	1	-12851	0.09	14.29	4.57	0	1	-12850	0.01	14.29	4.57	0	1
-12849	-0.07	14.29	4.57	0	1	-12848	-0.15	14.29	4.57	0	1	-12847	-0.24	14.29	4.57	0	1
-12846	-0.32	14.29	4.57	0	1	-12845	-0.41	14.29	4.57	0	1	-12844	-0.50	14.29	4.57	0	1
-12843	0.88	10.77	4.57	0	1	-12842	0.63	10.77	4.57	0	1	-12841	0.88	6.86	4.57	0	1
-12840	0.63	6.86	4.57	0	1	-12839	2.00	3.34	4.57	0	1	-12838	1.91	3.34	4.57	0	1
-12837	1.82	3.34	4.57	0	1	-12836	1.74	3.34	4.57	0	1	-12835	1.65	3.34	4.57	0	1
-12834	1.57	3.34	4.57	0	1	-12833	1.49	3.34	4.57	0	1	-12832	1.41	3.34	4.57	0	1
-12831	1.33	3.34	4.57	0	1	-12830	1.25	3.34	4.57	0	1	-12829	1.17	3.34	4.57	0	1
-12828	1.09	3.34	4.57	0	1	-12827	1.00	3.34	4.57	0	1	-12826	0.94	3.34	4.57	0	1

-12825	0.88	3.34	4.57	0	1	-12824	0.81	3.34	4.57	0	1	-12823	0.75	3.34	4.57	0	1
-12822	0.69	3.34	4.57	0	1	-12821	0.63	3.34	4.57	0	1	-12820	0.56	3.34	4.57	0	1
-12819	0.50	3.34	4.57	0	1	-12818	0.41	3.34	4.57	0	1	-12817	0.33	3.34	4.57	0	1
-12816	0.25	3.34	4.57	0	1	-12815	0.17	3.34	4.57	0	1	-12814	0.09	3.34	4.57	0	1
-12813	0.01	3.34	4.57	0	1	-12812	-0.07	3.34	4.57	0	1	-12811	-0.15	3.34	4.57	0	1
-12810	-0.24	3.34	4.57	0	1	-12809	-0.32	3.34	4.57	0	1	-12808	-0.41	3.34	4.57	0	1
-12807	-0.50	3.34	4.57	0	1	-12806	2.00	14.39	4.57	0	1	-12805	1.92	14.39	4.57	0	1
-12804	1.83	14.39	4.57	0	1	-12803	1.75	14.39	4.57	0	1	-12802	1.66	14.39	4.57	0	1
-12801	1.58	14.39	4.57	0	1	-12800	1.50	14.39	4.57	0	1	-12799	1.41	14.39	4.57	0	1
-12798	1.33	14.39	4.57	0	1	-12797	1.25	14.39	4.57	0	1	-12796	1.17	14.39	4.57	0	1
-12795	1.08	14.39	4.57	0	1	-12794	1.00	14.39	4.57	0	1	-12793	0.94	14.39	4.57	0	1
-12792	0.88	14.39	4.57	0	1	-12791	0.81	14.39	4.57	0	1	-12790	0.75	14.39	4.57	0	1
-12789	0.69	14.39	4.57	0	1	-12788	0.63	14.39	4.57	0	1	-12787	0.56	14.39	4.57	0	1
-12786	0.50	14.39	4.57	0	1	-12785	0.41	14.39	4.57	0	1	-12784	0.33	14.39	4.57	0	1
-12783	0.25	14.39	4.57	0	1	-12782	0.17	14.39	4.57	0	1	-12781	0.09	14.39	4.57	0	1
-12780	0.01	14.39	4.57	0	1	-12779	-0.07	14.39	4.57	0	1	-12778	-0.15	14.39	4.57	0	1
-12777	-0.24	14.39	4.57	0	1	-12776	-0.32	14.39	4.57	0	1	-12775	-0.41	14.39	4.57	0	1
-12774	-0.50	14.39	4.57	0	1	-12773	1.64	12.73	4.57	0	1	-12772	-0.14	12.73	4.57	0	1
-12771	1.64	4.91	4.57	0	1	-12770	-0.14	4.91	4.57	0	1	-12769	2.00	3.25	4.57	0	1
-12768	1.91	3.25	4.57	0	1	-12767	1.82	3.25	4.57	0	1	-12766	1.74	3.25	4.57	0	1
-12765	1.65	3.25	4.57	0	1	-12764	1.57	3.25	4.57	0	1	-12763	1.49	3.25	4.57	0	1
-12762	1.41	3.25	4.57	0	1	-12761	1.33	3.25	4.57	0	1	-12760	1.25	3.25	4.57	0	1
-12759	1.17	3.25	4.57	0	1	-12758	1.09	3.25	4.57	0	1	-12757	1.00	3.25	4.57	0	1
-12756	0.94	3.25	4.57	0	1	-12755	0.88	3.25	4.57	0	1	-12754	0.81	3.25	4.57	0	1
-12753	0.75	3.25	4.57	0	1	-12752	0.69	3.25	4.57	0	1	-12751	0.63	3.25	4.57	0	1
-12750	0.56	3.25	4.57	0	1	-12749	0.50	3.25	4.57	0	1	-12748	0.41	3.25	4.57	0	1
-12747	0.33	3.25	4.57	0	1	-12746	0.25	3.25	4.57	0	1	-12745	0.17	3.25	4.57	0	1
-12744	0.09	3.25	4.57	0	1	-12743	0.01	3.25	4.57	0	1	-12742	-0.07	3.25	4.57	0	1
-12741	-0.15	3.25	4.57	0	1	-12740	-0.24	3.25	4.57	0	1	-12739	-0.32	3.25	4.57	0	1
-12738	-0.41	3.25	4.57	0	1	-12737	-0.50	3.25	4.57	0	1	-12736	2.00	14.48	4.57	0	1
-12735	1.92	14.48	4.57	0	1	-12734	1.83	14.48	4.57	0	1	-12733	1.74	14.48	4.57	0	1
-12732	1.66	14.48	4.57	0	1	-12731	1.57	14.48	4.57	0	1	-12730	1.49	14.48	4.57	0	1
-12729	1.41	14.48	4.57	0	1	-12728	1.33	14.48	4.57	0	1	-12727	1.25	14.48	4.57	0	1
-12726	1.17	14.48	4.57	0	1	-12725	1.09	14.48	4.57	0	1	-12724	1.00	14.48	4.57	0	1
-12723	0.94	14.48	4.57	0	1	-12722	0.88	14.48	4.57	0	1	-12721	0.81	14.48	4.57	0	1
-12720	0.75	14.48	4.57	0	1	-12719	0.69	14.48	4.57	0	1	-12718	0.63	14.48	4.57	0	1
-12717	0.56	14.48	4.57	0	1	-12716	0.50	14.48	4.57	0	1	-12715	0.41	14.48	4.57	0	1
-12714	0.33	14.48	4.57	0	1	-12713	0.25	14.48	4.57	0	1	-12712	0.17	14.49	4.57	0	1
-12711	0.09	14.49	4.57	0	1	-12710	0.02	14.49	4.57	0	1	-12709	-0.06	14.49	4.57	0	1
-12708	-0.15	14.49	4.57	0	1	-12707	-0.24	14.48	4.57	0	1	-12706	-0.33	14.48	4.57	0	1
-12705	-0.41	14.48	4.57	0	1	-12704	-0.50	14.48	4.57	0	1	-12703	-0.23	13.70	4.57	0	1
-12702	0.91	10.77	4.57	0	1	-12701	0.59	10.77	4.57	0	1	-12700	0.91	6.86	4.57	0	1
-12699	0.59	6.86	4.57	0	1	-12698	2.00	3.15	4.57	0	1	-12697	1.91	3.15	4.57	0	1
-12696	1.83	3.15	4.57	0	1	-12695	1.74	3.15	4.57	0	1	-12694	1.65	3.15	4.57	0	1
-12693	1.56	3.15	4.57	0	1	-12692	1.48	3.15	4.57	0	1	-12691	1.41	3.15	4.57	0	1
-12690	1.33	3.15	4.57	0	1	-12689	1.25	3.15	4.57	0	1	-12688	1.17	3.15	4.57	0	1
-12687	1.09	3.15	4.57	0	1	-12686	1.00	3.15	4.57	0	1	-12685	0.94	3.15	4.57	0	1
-12684	0.88	3.15	4.57	0	1	-12683	0.81	3.15	4.57	0	1	-12682	0.75	3.15	4.57	0	1
-12681	0.69	3.15	4.57	0	1	-12680	0.63	3.15	4.57	0	1	-12679	0.56	3.15	4.57	0	1
-12678	0.50	3.15	4.57	0	1	-12677	0.41	3.15	4.57	0	1	-12676	0.33	3.15	4.57	0	1
-12675	0.25	3.15	4.57	0	1	-12674	0.17	3.15	4.57	0	1	-12673	0.09	3.15	4.57	0	1
-12672	0.02	3.15	4.57	0	1	-12671	-0.06	3.15	4.57	0	1	-12670	-0.15	3.15	4.57	0	1
-12669	-0.24	3.15	4.57	0	1	-12668	-0.33	3.15	4.57	0	1	-12667	-0.41	3.15	4.57	0	1
-12666	-0.50	3.15	4.57	0	1	-12665	2.00	14.58	4.57	0	1	-12664	1.92	14.58	4.57	0	1
-12663	1.83	14.58	4.57	0	1	-12662	1.74	14.58	4.57	0	1	-12661	1.65	14.58	4.57	0	1
-12660	1.57	14.58	4.57	0	1	-12659	1.49	14.58	4.57	0	1	-12658	1.41	14.58	4.57	0	1
-12657	1.33	14.58	4.57	0	1	-12656	1.26	14.58	4.57	0	1	-12655	1.18	14.58	4.57	0	1
-12654	1.09	14.58	4.57	0	1	-12653	1.00	14.58	4.57	0	1	-12652	0.94	14.58	4.57	0	1
-12651	0.88	14.58	4.57	0	1	-12650	0.81	14.58	4.57	0	1	-12649	0.75	14.58	4.57	0	1
-12648	0.69	14.58	4.57	0	1	-12647	0.63	14.58	4.57	0	1	-12646	0.56	14.58	4.57	0	1
-12645	0.50	14.58	4.57	0	1	-12644	0.41	14.58	4.57	0	1	-12643	0.32	14.58	4.57	0	1
-12642	0.24	14.58	4.57	0	1	-12641	0.17	14.58	4.57	0	1	-12640	0.09	14.58	4.57	0	1
-12639	0.02	14.58	4.57	0	1	-12638	-0.06	14.58	4.57	0	1	-12637	-0.14	14.58	4.57	0	1
-12636	-0.24	14.58	4.57	0	1	-12635	-0.33	14.58	4.57	0	1	-12634	-0.41	14.58	4.57	0	1
-12633	-0.50	14.58	4.57	0	1	-12632	0.88	10.67	4.57	0	1	-12631	0.63	10.67	4.57	0	1
-12630	0.88	9.89	4.57	0	1	-12629	0.63	9.89	4.57	0	1	-12628	0.88	7.74	4.57	0	1
-12627	0.63	7.74	4.57	0	1	-12626	0.88	6.96	4.57	0	1	-12625	0.63	6.96	4.57	0	1
-12624	2.00	3.05	4.57	0	1	-12623	1.91	3.05	4.57	0	1	-12622	1.83	3.05	4.57	0	1
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-12612	1.00	3.05	4.57	0	1	-12611	0.94	3.05	4.57	0	1	-12610	0.88	3.05	4.57	0	1
-12609	0.81	3.05	4.57	0	1	-12608	0.75	3.05	4.57	0	1	-12607	0.69	3.05	4.57	0	1
-12606	0.63	3.05	4.57	0	1	-12605	0.56	3.05	4.57	0	1	-12604	0.50	3.05	4.57	0	1
-12603	0.41	3.05	4.57	0	1	-12602	0.32	3.05	4.57	0	1	-12601	0.24	3.05	4.57	0	1
-12600	0.17	3.05	4.57	0	1	-12599	0.09	3.05	4.57	0	1	-12598	0.02	3.05	4.57	0	1
-12597	-0.06	3.05	4.57	0	1	-12596	-0.14	3.05	4.57	0	1	-12595	-0.24	3.05	4.57	0	1
-12594	-0.33	3.05	4.57	0	1	-12593	-0.41	3.05	4.57	0	1	-12592	-0.50	3.05	4.57	0	1
-12591	2.00	14.68	4.57	0	1	-12590	1.92	14.68	4.57	0	1	-12589	1.83	14.68	4.57	0	1

-12588	1.73	14.68	4.57	0	1	-12587	1.64	14.68	4.57	0	1	-12586	1.55	14.68	4.57	0	1
-12585	1.48	14.68	4.57	0	1	-12584	1.40	14.68	4.57	0	1	-12583	1.33	14.68	4.57	0	1
-12582	1.26	14.68	4.57	0	1	-12581	1.19	14.68	4.57	0	1	-12580	1.09	14.68	4.57	0	1
-12579	1.00	14.68	4.57	0	1	-12578	0.94	14.68	4.57	0	1	-12577	0.88	14.68	4.57	0	1
-12576	0.81	14.68	4.57	0	1	-12575	0.75	14.68	4.57	0	1	-12574	0.69	14.68	4.57	0	1
-12573	0.63	14.68	4.57	0	1	-12572	0.56	14.68	4.57	0	1	-12571	0.50	14.68	4.57	0	1
-12570	0.41	14.68	4.57	0	1	-12569	0.31	14.68	4.57	0	1	-12568	0.24	14.68	4.57	0	1
-12567	0.17	14.68	4.57	0	1	-12566	0.10	14.68	4.57	0	1	-12565	0.03	14.68	4.57	0	1
-12564	-0.06	14.68	4.57	0	1	-12563	-0.14	14.68	4.57	0	1	-12562	-0.23	14.68	4.57	0	1
-12561	-0.33	14.68	4.57	0	1	-12560	-0.42	14.68	4.57	0	1	-12559	-0.50	14.68	4.57	0	1
-12558	0.88	10.58	4.57	0	1	-12557	0.63	10.58	4.57	0	1	-12556	0.88	9.99	4.57	0	1
-12555	0.03	9.79	4.57	0	1	-12554	1.48	7.84	4.57	0	1	-12553	0.03	7.84	4.57	0	1
-12552	0.88	7.64	4.57	0	1	-12551	0.63	7.64	4.57	0	1	-12550	1.64	2.95	4.57	0	1
-12549	1.26	2.95	4.57	0	1	-12548	1.09	2.95	4.57	0	1	-12547	0.50	2.95	4.57	0	1
-12546	0.63	7.55	4.57	0	1	-12545	0.88	7.06	4.57	0	1	-12544	0.63	7.06	4.57	0	1
-12543	2.00	2.95	4.57	0	1	-12542	1.92	2.95	4.57	0	1	-12541	1.83	2.95	4.57	0	1
-12540	1.73	2.95	4.57	0	1	-12539	1.55	2.95	4.57	0	1	-12538	1.48	2.95	4.57	0	1
-12537	1.40	2.95	4.57	0	1	-12536	1.33	2.95	4.57	0	1	-12535	1.19	2.95	4.57	0	1
-12534	1.00	2.95	4.57	0	1	-12533	0.94	2.95	4.57	0	1	-12532	0.88	2.95	4.57	0	1
-12531	0.81	2.95	4.57	0	1	-12530	0.75	2.95	4.57	0	1	-12529	0.63	2.95	4.57	0	1
-12528	0.56	2.95	4.57	0	1	-12527	0.41	2.95	4.57	0	1	-12526	0.31	2.95	4.57	0	1
-12525	0.03	2.95	4.57	0	1	-12524	1.00	14.78	4.57	0	1	-12523	0.32	14.78	4.57	0	1
-12522	-0.33	14.78	4.57	0	1	-12521	-0.41	14.78	4.57	0	1	-12520	0.88	10.48	4.57	0	1
-12519	0.63	9.99	4.57	0	1	-12518	1.48	9.79	4.57	0	1	-12517	0.69	2.95	4.57	0	1
-12516	0.24	2.95	4.57	0	1	-12515	0.17	2.95	4.57	0	1	-12514	0.10	2.95	4.57	0	1
-12513	-0.06	2.95	4.57	0	1	-12512	-0.14	2.95	4.57	0	1	-12511	-0.23	2.95	4.57	0	1
-12510	-0.33	2.95	4.57	0	1	-12509	-0.42	2.95	4.57	0	1	-12508	-0.50	2.95	4.57	0	1
-12507	2.00	14.78	4.57	0	1	-12506	1.91	14.78	4.57	0	1	-12505	1.83	14.78	4.57	0	1
-12504	1.74	14.78	4.57	0	1	-12503	1.64	14.78	4.57	0	1	-12502	1.56	14.78	4.57	0	1
-12501	1.48	14.78	4.57	0	1	-12500	1.41	14.78	4.57	0	1	-12499	1.33	14.78	4.57	0	1
-12498	1.26	14.78	4.57	0	1	-12497	1.18	14.78	4.57	0	1	-12496	1.09	14.78	4.57	0	1
-12495	0.94	14.78	4.57	0	1	-12494	0.88	14.78	4.57	0	1	-12493	0.81	14.78	4.57	0	1
-12492	0.75	14.78	4.57	0	1	-12491	0.69	14.78	4.57	0	1	-12490	0.63	14.78	4.57	0	1
-12489	0.56	14.78	4.57	0	1	-12488	0.50	14.78	4.57	0	1	-12487	0.41	14.78	4.57	0	1
-12486	0.24	14.78	4.57	0	1	-12485	0.17	14.78	4.57	0	1	-12484	0.09	14.78	4.57	0	1
-12483	0.02	14.78	4.57	0	1	-12482	-0.06	14.78	4.57	0	1	-12481	-0.14	14.78	4.57	0	1
-12480	-0.24	14.78	4.57	0	1	-12479	-0.50	14.78	4.57	0	1	-12478	0.63	10.48	4.57	0	1
-12477	0.88	10.38	4.56	0	1	-12476	0.63	10.38	4.56	0	1	-12475	0.88	10.28	4.56	0	1
-12474	0.63	10.28	4.56	0	1	-12473	0.88	10.18	4.56	0	1	-12472	0.63	10.18	4.56	0	1
-12471	0.88	10.09	4.57	0	1	-12470	0.63	10.09	4.57	0	1	-12469	0.88	7.55	4.57	0	1
-12468	0.88	7.45	4.56	0	1	-12467	0.63	7.45	4.56	0	1	-12466	0.88	7.35	4.56	0	1
-12465	0.63	7.35	4.56	0	1	-12464	0.88	7.25	4.56	0	1	-12463	0.63	7.25	4.56	0	1
-12462	0.88	7.15	4.57	0	1	-12461	0.63	7.15	4.57	0	1	-12460	2.00	2.85	4.57	0	1
-12459	1.91	2.85	4.57	0	1	-12458	1.83	2.85	4.57	0	1	-12457	1.74	2.85	4.57	0	1
-12456	1.64	2.85	4.57	0	1	-12455	1.56	2.85	4.57	0	1	-12454	1.48	2.85	4.57	0	1
-12453	1.41	2.85	4.57	0	1	-12452	1.33	2.85	4.57	0	1	-12451	1.26	2.85	4.57	0	1
-12450	1.18	2.85	4.57	0	1	-12449	1.09	2.85	4.57	0	1	-12448	1.00	2.85	4.57	0	1
-12447	0.94	2.85	4.57	0	1	-12446	0.88	2.85	4.57	0	1	-12445	0.81	2.85	4.57	0	1
-12444	0.75	2.85	4.57	0	1	-12443	0.69	2.85	4.57	0	1	-12442	0.63	2.85	4.57	0	1
-12441	0.56	2.85	4.57	0	1	-12440	0.50	2.85	4.57	0	1	-12439	0.41	2.85	4.57	0	1
-12438	0.32	2.85	4.57	0	1	-12437	0.24	2.85	4.57	0	1	-12436	0.17	2.85	4.57	0	1
-12435	0.09	2.85	4.57	0	1	-12434	0.02	2.85	4.57	0	1	-12433	-0.06	2.85	4.57	0	1
-12432	-0.14	2.85	4.57	0	1	-12431	-0.24	2.85	4.57	0	1	-12430	-0.33	2.85	4.57	0	1
-12429	-0.41	2.85	4.57	0	1	-12428	-0.50	2.85	4.57	0	1	-12427	2.00	14.88	4.56	0	1
-12426	1.91	14.88	4.56	0	1	-12425	1.83	14.88	4.56	0	1	-12424	1.74	14.88	4.56	0	1
-12423	1.65	14.88	4.56	0	1	-12422	1.56	14.88	4.56	0	1	-12421	1.48	14.88	4.56	0	1
-12420	1.41	14.88	4.56	0	1	-12419	1.33	14.88	4.56	0	1	-12418	1.25	14.88	4.56	0	1
-12417	1.17	14.88	4.56	0	1	-12416	1.09	14.88	4.56	0	1	-12415	1.00	14.88	4.56	0	1
-12414	0.94	14.88	4.56	0	1	-12413	0.88	14.88	4.56	0	1	-12412	0.81	14.88	4.56	0	1
-12411	0.75	14.88	4.56	0	1	-12410	0.69	14.88	4.56	0	1	-12409	0.63	14.88	4.56	0	1
-12408	0.56	14.88	4.56	0	1	-12407	0.50	14.88	4.56	0	1	-12406	0.41	14.88	4.56	0	1
-12405	0.33	14.88	4.56	0	1	-12404	0.25	14.88	4.56	0	1	-12403	0.17	14.88	4.56	0	1
-12402	0.09	14.88	4.56	0	1	-12401	0.02	14.88	4.56	0	1	-12400	-0.06	14.88	4.56	0	1
-12399	-0.15	14.88	4.56	0	1	-12398	-0.24	14.88	4.56	0	1	-12397	-0.33	14.88	4.56	0	1
-12396	-0.41	14.88	4.56	0	1	-12395	-0.50	14.88	4.56	0	1	-12394	2.00	2.76	4.56	0	1
-12393	1.91	2.76	4.56	0	1	-12392	1.83	2.76	4.56	0	1	-12391	1.74	2.76	4.56	0	1
-12390	1.65	2.76	4.56	0	1	-12389	1.56	2.76	4.56	0	1	-12388	1.48	2.76	4.56	0	1
-12387	1.41	2.76	4.56	0	1	-12386	1.33	2.76	4.56	0	1	-12385	1.25	2.76	4.56	0	1
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-12381	0.94	2.76	4.56	0	1	-12380	0.88	2.76	4.56	0	1	-12379	0.81	2.76	4.56	0	1
-12378	0.75	2.76	4.56	0	1	-12377	0.69	2.76	4.56	0	1	-12376	0.63	2.76	4.56	0	1
-12375	0.56	2.76	4.56	0	1	-12374	0.50	2.76	4.56	0	1	-12373	0.41	2.76	4.56	0	1
-12372	0.33	2.76	4.56	0	1	-12371	0.25	2.76	4.56	0	1	-12370	0.17	2.76	4.56	0	1
-12369	0.09	2.76	4.56	0	1	-12368	0.02	2.76	4.56	0	1	-12367	-0.06	2.76	4.56	0	1
-12366	-0.15	2.76	4.56	0	1	-12365	-0.24	2.76	4.56	0	1	-12364	-0.33	2.76	4.56	0	1
-12363	-0.41	2.76	4.56	0	1	-12362	-0.50	2.76	4.56	0	1	-12361	2.00	14.97	4.56	0	1
-12360	1.91	14.97	4.56	0	1	-12359	1.82	14.97	4.56	0	1	-12358	1.74	14.97	4.56	0	1
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-12348	0.94	14.97	4.56	0	1	-12347	0.88	14.97	4.56	0	1	-12346	0.81	14.97	4.56	0	1
-12345	0.75	14.97	4.56	0	1	-12344	0.69	14.97	4.56	0	1	-12343	0.63	14.97	4.56	0	1
-12342	0.56	14.97	4.56	0	1	-12341	0.50	14.97	4.56	0	1	-12340	0.41	14.97	4.56	0	1
-12339	0.33	14.97	4.56	0	1	-12338	0.25	14.97	4.56	0	1	-12337	0.17	14.97	4.56	0	1
-12336	0.09	14.97	4.56	0	1	-12335	0.01	14.97	4.56	0	1	-12334	-0.07	14.97	4.56	0	1
-12333	-0.15	14.97	4.56	0	1	-12332	-0.24	14.97	4.56	0	1	-12331	-0.32	14.97	4.56	0	1
-12330	-0.41	14.97	4.56	0	1	-12329	-0.50	14.97	4.56	0	1	-12328	1.05	8.82	4.56	0	1
-12327	0.45	8.82	4.56	0	1	-12326	2.00	2.66	4.56	0	1	-12325	1.91	2.66	4.56	0	1
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-12309	0.69	2.66	4.56	0	1	-12308	0.63	2.66	4.56	0	1	-12307	0.56	2.66	4.56	0	1
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-12300	0.01	2.66	4.56	0	1	-12299	-0.07	2.66	4.56	0	1	-12298	-0.15	2.66	4.56	0	1
-12297	-0.24	2.66	4.56	0	1	-12296	-0.32	2.66	4.56	0	1	-12295	-0.41	2.66	4.56	0	1
-12294	-0.50	2.66	4.56	0	1	-12293	2.00	15.07	4.56	0	1	-12292	1.91	15.07	4.56	0	1
-12291	1.82	15.07	4.56	0	1	-12290	1.74	15.07	4.56	0	1	-12289	1.65	15.07	4.56	0	1
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-12273	0.50	15.07	4.56	0	1	-12272	0.41	15.07	4.56	0	1	-12271	0.33	15.07	4.56	0	1
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-12264	-0.24	15.07	4.56	0	1	-12263	-0.32	15.07	4.56	0	1	-12262	-0.41	15.07	4.56	0	1
-12261	-0.50	15.07	4.56	0	1	-12260	0.88	11.75	4.56	0	1	-12259	0.63	11.75	4.56	0	1
-12258	0.39	9.79	4.56	0	1	-12257	0.39	7.84	4.56	0	1	-12256	0.88	5.88	4.56	0	1
-12255	0.63	5.88	4.56	0	1	-12254	2.00	2.56	4.56	0	1	-12253	1.91	2.56	4.56	0	1
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-12243	1.09	2.56	4.56	0	1	-12242	1.00	2.56	4.56	0	1	-12241	0.94	2.56	4.56	0	1
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-12237	0.69	2.56	4.56	0	1	-12236	0.63	2.56	4.56	0	1	-12235	0.56	2.56	4.56	0	1
-12234	0.50	2.56	4.56	0	1	-12233	0.41	2.56	4.56	0	1	-12232	0.33	2.56	4.56	0	1
-12231	0.25	2.56	4.56	0	1	-12230	0.17	2.56	4.56	0	1	-12229	0.09	2.56	4.56	0	1
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-12219	1.82	15.17	4.56	0	1	-12218	1.74	15.17	4.56	0	1	-12217	1.65	15.17	4.56	0	1
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-12204	0.69	15.17	4.56	0	1	-12203	0.63	15.17	4.56	0	1	-12202	0.56	15.17	4.56	0	1
-12201	0.50	15.17	4.56	0	1	-12200	0.41	15.17	4.56	0	1	-12199	0.33	15.17	4.56	0	1
-12198	0.25	15.17	4.56	0	1	-12197	0.17	15.17	4.56	0	1	-12196	0.09	15.17	4.56	0	1
-12195	0.01	15.17	4.56	0	1	-12194	-0.07	15.17	4.56	0	1	-12193	-0.15	15.17	4.56	0	1
-12192	-0.24	15.17	4.56	0	1	-12191	-0.32	15.17	4.56	0	1	-12190	-0.41	15.17	4.56	0	1
-12189	-0.50	15.17	4.56	0	1	-12188	1.74	2.46	4.56	0	1	-12187	1.41	2.46	4.56	0	1
-12186	0.81	2.46	4.56	0	1	-12185	0.25	2.46	4.56	0	1	-12184	1.91	15.27	4.56	0	1
-12183	1.09	15.27	4.56	0	1	-12182	1.00	15.27	4.56	0	1	-12181	0.50	15.27	4.56	0	1
-12180	-0.07	15.27	4.56	0	1	-12179	0.88	12.63	4.56	0	1	-12178	0.88	11.85	4.56	0	1
-12177	0.63	6.76	4.56	0	1	-12176	0.88	5.98	4.56	0	1	-12175	0.88	5.79	4.56	0	1
-12174	0.63	5.79	4.56	0	1	-12173	2.00	2.46	4.56	0	1	-12172	1.91	2.46	4.56	0	1
-12171	1.25	2.46	4.56	0	1	-12170	0.09	2.46	4.56	0	1	-12169	0.88	15.27	4.56	0	1
-12168	0.81	15.27	4.56	0	1	-12167	0.63	12.63	4.56	0	1	-12166	0.88	5.00	4.56	0	1
-12165	1.57	2.46	4.56	0	1	-12164	1.17	2.46	4.56	0	1	-12163	1.00	2.46	4.56	0	1
-12162	0.88	2.46	4.56	0	1	-12161	0.75	2.46	4.56	0	1	-12160	0.50	2.46	4.56	0	1
-12159	0.01	2.46	4.56	0	1	-12158	-0.32	2.46	4.56	0	1	-12157	-0.41	2.46	4.56	0	1
-12156	2.00	15.27	4.56	0	1	-12155	1.82	15.27	4.56	0	1	-12154	1.74	15.27	4.56	0	1
-12153	1.65	15.27	4.56	0	1	-12152	1.41	15.27	4.56	0	1	-12151	1.25	15.27	4.56	0	1
-12150	0.69	15.27	4.56	0	1	-12149	0.41	15.27	4.56	0	1	-12148	-0.50	15.27	4.56	0	1
-12147	0.63	5.00	4.56	0	1	-12146	1.09	2.46	4.56	0	1	-12145	0.69	2.46	4.56	0	1
-12144	0.17	2.46	4.56	0	1	-12143	-0.50	2.46	4.56	0	1	-12142	1.57	15.27	4.56	0	1
-12141	0.94	15.27	4.56	0	1	-12140	0.63	15.27	4.56	0	1	-12139	0.56	15.27	4.56	0	1
-12138	0.25	15.27	4.56	0	1	-12137	0.17	15.27	4.56	0	1	-12136	0.01	15.27	4.56	0	1
-12135	-0.15	15.27	4.56	0	1	-12134	-0.24	15.27	4.56	0	1	-12133	-0.32	15.27	4.56	0	1
-12132	-0.41	15.27	4.56	0	1	-12131	1.64	13.70	4.56	0	1	-12130	-0.14	13.70	4.56	0	1
-12129	0.63	11.85	4.56	0	1	-12128	0.88	11.65	4.56	0	1	-12127	0.63	11.65	4.56	0	1
-12126	0.88	10.87	4.56	0	1	-12125	0.63	10.87	4.56	0	1	-12124	0.88	6.76	4.56	0	1
-12123	0.63	5.98	4.56	0	1	-12122	1.82	2.46	4.56	0	1	-12121	1.65	2.46	4.56	0	1
-12120	1.49	2.46	4.56	0	1	-12119	0.56	2.46	4.56	0	1	-12118	1.49	15.27	4.56	0	1
-12117	1.64	3.93	4.56	0	1	-12116	-0.14	3.93	4.56	0	1	-12115	1.33	2.46	4.56	0	1

-12114	0.94	2.46	4.56	0	1	-12113	0.63	2.46	4.56	0	1	-12112	0.41	2.46	4.56	0	1
-12111	0.33	2.46	4.56	0	1	-12110	-0.07	2.46	4.56	0	1	-12109	-0.15	2.46	4.56	0	1
-12108	-0.24	2.46	4.56	0	1	-12107	1.33	15.27	4.56	0	1	-12106	1.17	15.27	4.56	0	1
-12105	0.75	15.27	4.56	0	1	-12104	0.33	15.27	4.56	0	1	-12103	0.09	15.27	4.56	0	1
-12102	1.49	2.37	4.56	0	1	-12101	1.25	2.37	4.56	0	1	-12100	0.81	2.37	4.56	0	1
-12099	0.75	2.37	4.56	0	1	-12098	0.63	2.37	4.56	0	1	-12097	0.50	2.37	4.56	0	1
-12096	0.25	2.37	4.56	0	1	-12095	-0.50	2.37	4.56	0	1	-12094	1.91	15.36	4.56	0	1
-12093	1.82	15.36	4.56	0	1	-12092	1.57	15.36	4.56	0	1	-12091	1.49	15.36	4.56	0	1
-12090	1.41	15.36	4.56	0	1	-12089	1.33	15.36	4.56	0	1	-12088	1.25	15.36	4.56	0	1
-12087	0.88	15.36	4.56	0	1	-12086	0.75	15.36	4.56	0	1	-12085	0.69	15.36	4.56	0	1
-12084	0.25	15.36	4.56	0	1	-12083	0.17	15.36	4.56	0	1	-12082	-0.07	15.36	4.56	0	1
-12081	0.88	12.53	4.56	0	1	-12080	0.63	12.53	4.56	0	1	-12079	0.63	12.43	4.56	0	1
-12078	0.59	11.75	4.56	0	1	-12077	0.88	11.55	4.56	0	1	-12076	0.63	11.55	4.56	0	1
-12075	0.63	10.97	4.56	0	1	-12074	0.88	6.67	4.56	0	1	-12073	0.88	5.69	4.56	0	1
-12072	2.00	2.37	4.56	0	1	-12071	1.91	2.37	4.56	0	1	-12070	1.57	2.37	4.56	0	1
-12069	1.41	2.37	4.56	0	1	-12068	1.09	2.37	4.56	0	1	-12067	0.94	2.37	4.56	0	1
-12066	0.69	2.37	4.56	0	1	-12065	0.56	2.37	4.56	0	1	-12064	0.41	2.37	4.56	0	1
-12063	0.09	2.37	4.56	0	1	-12062	0.01	2.37	4.56	0	1	-12061	-0.15	2.37	4.56	0	1
-12060	-0.32	2.37	4.56	0	1	-12059	2.00	15.36	4.56	0	1	-12058	1.00	15.36	4.56	0	1
-12057	0.88	6.08	4.56	0	1	-12056	0.63	5.69	4.56	0	1	-12055	1.74	2.37	4.56	0	1
-12054	1.33	2.37	4.56	0	1	-12053	1.00	2.37	4.56	0	1	-12052	1.65	15.36	4.56	0	1
-12051	0.94	15.36	4.56	0	1	-12050	0.63	15.36	4.56	0	1	-12049	0.50	15.36	4.56	0	1
-12048	0.41	15.36	4.56	0	1	-12047	0.33	15.36	4.56	0	1	-12046	0.01	15.36	4.56	0	1
-12045	-0.15	15.36	4.56	0	1	-12044	-0.24	15.36	4.56	0	1	-12043	-0.32	15.36	4.56	0	1
-12042	-0.41	15.36	4.56	0	1	-12041	-0.50	15.36	4.56	0	1	-12040	0.88	12.43	4.56	0	1
-12039	0.88	11.94	4.56	0	1	-12038	0.63	11.94	4.56	0	1	-12037	0.91	11.75	4.56	0	1
-12036	0.88	2.37	4.56	0	1	-12035	0.17	2.37	4.56	0	1	-12034	-0.24	2.37	4.56	0	1
-12033	1.17	15.36	4.56	0	1	-12032	1.09	15.36	4.56	0	1	-12031	0.63	11.46	4.56	0	1
-12030	0.63	11.06	4.56	0	1	-12029	0.88	10.97	4.56	0	1	-12028	0.63	6.67	4.56	0	1
-12027	0.63	6.08	4.56	0	1	-12026	0.91	5.88	4.56	0	1	-12025	0.59	5.88	4.56	0	1
-12024	1.82	2.37	4.56	0	1	-12023	1.65	2.37	4.56	0	1	-12022	1.17	2.37	4.56	0	1
-12021	0.33	2.37	4.56	0	1	-12020	-0.07	2.37	4.56	0	1	-12019	-0.41	2.37	4.56	0	1
-12018	1.74	15.36	4.56	0	1	-12017	0.81	15.36	4.56	0	1	-12016	0.56	15.36	4.56	0	1
-12015	0.09	15.36	4.56	0	1	-12014	0.88	5.20	4.56	0	1	-12013	1.33	2.27	4.56	0	1
-12012	1.25	2.27	4.56	0	1	-12011	1.09	2.27	4.56	0	1	-12010	0.69	2.27	4.56	0	1
-12009	0.50	2.27	4.56	0	1	-12008	0.63	11.16	4.55	0	1	-12007	0.88	6.57	4.56	0	1
-12006	0.63	5.20	4.56	0	1	-12005	1.73	2.95	4.56	0	1	-12004	-0.23	2.95	4.56	0	1
-12003	2.00	2.27	4.56	0	1	-12002	1.91	2.27	4.56	0	1	-12001	1.74	2.27	4.56	0	1
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-11997	0.33	2.27	4.56	0	1	-11996	0.01	2.27	4.56	0	1	-11995	-0.41	2.27	4.56	0	1
-11994	-0.50	2.27	4.56	0	1	-11993	1.91	15.46	4.55	0	1	-11992	1.74	15.46	4.55	0	1
-11991	0.88	15.46	4.55	0	1	-11990	0.75	15.46	4.55	0	1	-11989	0.63	12.33	4.55	0	1
-11988	0.88	12.24	4.55	0	1	-11987	0.88	12.14	4.55	0	1	-11986	0.88	12.04	4.56	0	1
-11985	0.63	12.04	4.56	0	1	-11984	0.88	11.46	4.56	0	1	-11983	1.17	2.27	4.56	0	1
-11982	0.88	2.27	4.56	0	1	-11981	0.81	2.27	4.56	0	1	-11980	0.63	2.27	4.56	0	1
-11979	0.63	11.26	4.55	0	1	-11978	0.63	6.57	4.56	0	1	-11977	0.88	5.59	4.56	0	1
-11976	0.63	5.59	4.56	0	1	-11975	0.88	5.10	4.56	0	1	-11974	0.63	5.10	4.56	0	1
-11973	1.65	2.27	4.56	0	1	-11972	0.75	2.27	4.56	0	1	-11971	0.56	2.27	4.56	0	1
-11970	0.41	2.27	4.56	0	1	-11969	0.25	2.27	4.56	0	1	-11968	0.17	2.27	4.56	0	1
-11967	-0.15	2.27	4.56	0	1	-11966	2.00	15.46	4.55	0	1	-11965	1.83	15.46	4.55	0	1
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-11961	1.33	15.46	4.55	0	1	-11960	1.09	15.46	4.55	0	1	-11959	0.81	15.46	4.55	0	1
-11958	0.69	15.46	4.55	0	1	-11957	0.63	15.46	4.55	0	1	-11956	0.25	15.46	4.55	0	1
-11955	0.17	15.46	4.55	0	1	-11954	-0.33	15.46	4.55	0	1	-11953	0.63	12.14	4.55	0	1
-11952	0.63	11.36	4.55	0	1	-11951	0.88	11.26	4.55	0	1	-11950	0.88	11.16	4.55	0	1
-11949	0.88	11.06	4.56	0	1	-11948	0.09	2.27	4.56	0	1	-11947	-0.32	2.27	4.56	0	1
-11946	0.63	6.47	4.55	0	1	-11945	0.88	6.37	4.55	0	1	-11944	0.63	6.28	4.55	0	1
-11943	0.88	6.18	4.56	0	1	-11942	0.63	6.18	4.56	0	1	-11941	1.82	2.27	4.56	0	1
-11940	1.00	2.27	4.56	0	1	-11939	0.94	2.27	4.56	0	1	-11938	-0.07	2.27	4.56	0	1
-11937	-0.24	2.27	4.56	0	1	-11936	1.48	15.46	4.55	0	1	-11935	1.25	15.46	4.55	0	1
-11934	1.17	15.46	4.55	0	1	-11933	1.00	15.46	4.55	0	1	-11932	0.94	15.46	4.55	0	1
-11931	0.56	15.46	4.55	0	1	-11930	0.50	15.46	4.55	0	1	-11929	0.41	15.46	4.55	0	1
-11928	0.33	15.46	4.55	0	1	-11927	0.09	15.46	4.55	0	1	-11926	0.02	15.46	4.55	0	1
-11925	-0.06	15.46	4.55	0	1	-11924	-0.15	15.46	4.55	0	1	-11923	-0.24	15.46	4.55	0	1
-11922	-0.41	15.46	4.55	0	1	-11921	-0.50	15.46	4.55	0	1	-11920	0.88	12.33	4.55	0	1
-11919	0.63	12.24	4.55	0	1	-11918	0.88	11.36	4.55	0	1	-11917	0.88	6.47	4.55	0	1
-11916	0.63	6.37	4.55	0	1	-11915	0.88	6.28	4.55	0	1	-11914	0.88	5.49	4.55	0	1
-11913	0.63	5.49	4.55	0	1	-11912	0.88	5.40	4.55	0	1	-11911	0.63	5.40	4.55	0	1
-11910	0.88	5.30	4.55	0	1	-11909	0.63	5.30	4.55	0	1	-11908	1.48	6.86	4.55	0	1
-11907	0.03	6.86	4.55	0	1	-11906	2.00	2.17	4.55	0	1	-11905	1.91	2.17	4.55	0	1
-11904	1.83	2.17	4.55	0	1	-11903	1.74	2.17	4.55	0	1	-11902	1.65	2.17	4.55	0	1
-11901	1.56	2.17	4.55	0	1	-11900	1.48	2.17	4.55	0	1	-11899	1.25	2.17	4.55	0	1
-11898	1.00	2.17	4.55	0	1	-11897	1.33	15.56	4.55	0	1	-11896	1.18	15.56	4.55	0	1
-11895	0.75	15.56	4.55	0	1	-11894	-0.50	15.56	4.55	0	1	-11893	1.48	10.77	4.55	0	1
-11892	1.41	2.17	4.55	0	1	-11891	1.33	2.17	4.55	0	1	-11890	1.17	2.17	4.55	0	1
-11889	1.09	2.17	4.55	0	1	-11888	0.94	2.17	4.55	0	1	-11887	0.88	2.17	4.55	0	1
-11886	0.81	2.17	4.55	0	1	-11885	0.75	2.17	4.55	0	1	-11884	0.63	2.17	4.55	0	1
-11883	0.56	2.17	4.55	0	1	-11882	0.50	2.17	4.55	0	1	-11881	0.41	2.17	4.55	0	1
-11880	0.33	2.17	4.55	0	1	-11879	0.25	2.17	4.55	0	1	-11878	0.09	2.17	4.55	0	1

-11877	-0.15	2.17	4.55	0	1	-11876	-0.33	2.17	4.55	0	1	-11875	2.00	15.56	4.55	0	1
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-11871	1.48	15.56	4.55	0	1	-11870	0.17	15.56	4.55	0	1	-11869	-0.14	15.56	4.55	0	1
-11868	0.03	10.77	4.55	0	1	-11867	0.69	2.17	4.55	0	1	-11866	0.17	2.17	4.55	0	1
-11865	0.02	2.17	4.55	0	1	-11864	-0.06	2.17	4.55	0	1	-11863	-0.24	2.17	4.55	0	1
-11862	-0.41	2.17	4.55	0	1	-11861	-0.50	2.17	4.55	0	1	-11860	1.83	15.56	4.55	0	1
-11859	1.64	15.56	4.55	0	1	-11858	1.41	15.56	4.55	0	1	-11857	1.26	15.56	4.55	0	1
-11856	1.09	15.56	4.55	0	1	-11855	1.00	15.56	4.55	0	1	-11854	0.94	15.56	4.55	0	1
-11853	0.88	15.56	4.55	0	1	-11852	0.81	15.56	4.55	0	1	-11851	0.69	15.56	4.55	0	1
-11850	0.63	15.56	4.55	0	1	-11849	0.56	15.56	4.55	0	1	-11848	0.50	15.56	4.55	0	1
-11847	0.41	15.56	4.55	0	1	-11846	0.32	15.56	4.55	0	1	-11845	0.24	15.56	4.55	0	1
-11844	0.09	15.56	4.55	0	1	-11843	0.02	15.56	4.55	0	1	-11842	-0.06	15.56	4.55	0	1
-11841	-0.24	15.56	4.55	0	1	-11840	-0.33	15.56	4.55	0	1	-11839	-0.41	15.56	4.55	0	1
-11838	2.00	2.07	4.55	0	1	-11837	1.91	2.07	4.55	0	1	-11836	1.83	2.07	4.55	0	1
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-11829	1.26	2.07	4.55	0	1	-11828	1.18	2.07	4.55	0	1	-11827	1.09	2.07	4.55	0	1
-11826	1.00	2.07	4.55	0	1	-11825	0.94	2.07	4.55	0	1	-11824	0.88	2.07	4.55	0	1
-11823	0.81	2.07	4.55	0	1	-11822	0.75	2.07	4.55	0	1	-11821	0.69	2.07	4.55	0	1
-11820	0.63	2.07	4.55	0	1	-11819	0.56	2.07	4.55	0	1	-11818	0.50	2.07	4.55	0	1
-11817	0.41	2.07	4.55	0	1	-11816	0.32	2.07	4.55	0	1	-11815	0.24	2.07	4.55	0	1
-11814	0.17	2.07	4.55	0	1	-11813	0.09	2.07	4.55	0	1	-11812	0.02	2.07	4.55	0	1
-11811	-0.06	2.07	4.55	0	1	-11810	-0.14	2.07	4.55	0	1	-11809	-0.24	2.07	4.55	0	1
-11808	-0.33	2.07	4.55	0	1	-11807	-0.41	2.07	4.55	0	1	-11806	-0.50	2.07	4.55	0	1
-11805	2.00	15.66	4.55	0	1	-11804	1.92	15.66	4.55	0	1	-11803	1.83	15.66	4.55	0	1
-11802	1.73	15.66	4.55	0	1	-11801	1.64	15.66	4.55	0	1	-11800	1.55	15.66	4.55	0	1
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-11790	0.81	15.66	4.55	0	1	-11789	0.75	15.66	4.55	0	1	-11788	0.69	15.66	4.55	0	1
-11787	0.63	15.66	4.55	0	1	-11786	0.56	15.66	4.55	0	1	-11785	0.50	15.66	4.55	0	1
-11784	0.41	15.66	4.55	0	1	-11783	0.31	15.66	4.55	0	1	-11782	0.24	15.66	4.55	0	1
-11781	0.17	15.66	4.55	0	1	-11780	0.10	15.66	4.55	0	1	-11779	0.03	15.66	4.55	0	1
-11778	-0.06	15.66	4.55	0	1	-11777	-0.14	15.66	4.55	0	1	-11776	-0.23	15.66	4.55	0	1
-11775	-0.33	15.66	4.55	0	1	-11774	-0.42	15.66	4.55	0	1	-11773	-0.50	15.66	4.55	0	1
-11772	2.00	1.97	4.55	0	1	-11771	1.92	1.97	4.55	0	1	-11770	1.83	1.97	4.55	0	1
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-11754	0.63	1.97	4.55	0	1	-11753	0.56	1.97	4.55	0	1	-11752	0.50	1.97	4.55	0	1
-11751	0.41	1.97	4.55	0	1	-11750	0.31	1.97	4.55	0	1	-11749	0.24	1.97	4.55	0	1
-11748	0.17	1.97	4.55	0	1	-11747	0.10	1.97	4.55	0	1	-11746	0.03	1.97	4.55	0	1
-11745	-0.06	1.97	4.55	0	1	-11744	-0.14	1.97	4.55	0	1	-11743	-0.23	1.97	4.55	0	1
-11742	-0.33	1.97	4.55	0	1	-11741	-0.42	1.97	4.55	0	1	-11740	-0.50	1.97	4.55	0	1
-11739	2.00	15.76	4.55	0	1	-11738	1.91	15.76	4.55	0	1	-11737	1.83	15.76	4.55	0	1
-11736	1.74	15.76	4.55	0	1	-11735	1.64	15.76	4.55	0	1	-11734	1.56	15.76	4.55	0	1
-11733	1.48	15.76	4.55	0	1	-11732	1.41	15.76	4.55	0	1	-11731	1.33	15.76	4.55	0	1
-11730	1.26	15.76	4.55	0	1	-11729	1.18	15.76	4.55	0	1	-11728	1.09	15.76	4.55	0	1
-11727	1.00	15.76	4.55	0	1	-11726	0.94	15.76	4.55	0	1	-11725	0.88	15.76	4.55	0	1
-11724	0.81	15.76	4.55	0	1	-11723	0.75	15.76	4.55	0	1	-11722	0.69	15.76	4.55	0	1
-11721	0.63	15.76	4.55	0	1	-11720	0.56	15.76	4.55	0	1	-11719	0.50	15.76	4.55	0	1
-11718	0.41	15.76	4.55	0	1	-11717	0.32	15.76	4.55	0	1	-11716	0.24	15.76	4.55	0	1
-11715	0.17	15.76	4.55	0	1	-11714	0.09	15.76	4.55	0	1	-11713	0.02	15.76	4.55	0	1
-11712	-0.06	15.76	4.55	0	1	-11711	-0.14	15.76	4.55	0	1	-11710	-0.24	15.76	4.55	0	1
-11709	-0.33	15.76	4.55	0	1	-11708	-0.41	15.76	4.55	0	1	-11707	-0.50	15.76	4.55	0	1
-11706	1.05	9.79	4.55	0	1	-11705	1.91	1.88	4.55	0	1	-11704	1.83	1.88	4.55	0	1
-11703	1.74	1.88	4.55	0	1	-11702	1.64	1.88	4.55	0	1	-11701	1.56	1.88	4.55	0	1
-11700	1.48	1.88	4.55	0	1	-11699	1.41	1.88	4.55	0	1	-11698	1.33	1.88	4.55	0	1
-11697	1.26	1.88	4.55	0	1	-11696	1.18	1.88	4.55	0	1	-11695	1.09	1.88	4.55	0	1
-11694	1.00	1.88	4.55	0	1	-11693	0.94	1.88	4.55	0	1	-11692	0.88	1.88	4.55	0	1
-11691	0.81	1.88	4.55	0	1	-11690	0.75	1.88	4.55	0	1	-11689	0.69	1.88	4.55	0	1
-11688	0.63	1.88	4.55	0	1	-11687	0.56	1.88	4.55	0	1	-11686	0.50	1.88	4.55	0	1
-11685	0.41	1.88	4.55	0	1	-11684	0.41	15.85	4.55	0	1	-11683	0.45	7.84	4.55	0	1
-11682	2.00	1.88	4.55	0	1	-11681	0.32	1.88	4.55	0	1	-11680	0.24	1.88	4.55	0	1
-11679	0.09	1.88	4.55	0	1	-11678	-0.14	1.88	4.55	0	1	-11677	-0.41	1.88	4.55	0	1
-11676	-0.50	1.88	4.55	0	1	-11675	2.00	15.85	4.55	0	1	-11674	1.91	15.85	4.55	0	1
-11673	1.83	15.85	4.55	0	1	-11672	1.65	15.85	4.55	0	1	-11671	1.41	15.85	4.55	0	1
-11670	1.25	15.85	4.55	0	1	-11669	-0.50	15.85	4.55	0	1	-11668	1.05	7.84	4.55	0	1
-11667	0.17	1.88	4.55	0	1	-11666	0.02	1.88	4.55	0	1	-11665	-0.06	1.88	4.55	0	1
-11664	-0.24	1.88	4.55	0	1	-11663	-0.33	1.88	4.55	0	1	-11662	1.74	15.85	4.55	0	1
-11661	1.56	15.85	4.55	0	1	-11660	1.48	15.85	4.55	0	1	-11659	1.33	15.85	4.55	0	1
-11658	1.17	15.85	4.55	0	1	-11657	1.09	15.85	4.55	0	1	-11656	1.00	15.85	4.55	0	1
-11655	0.94	15.85	4.55	0	1	-11654	0.88	15.85	4.55	0	1	-11653	0.81	15.85	4.55	0	1
-11652	0.75	15.85	4.55	0	1	-11651	0.69	15.85	4.55	0	1	-11650	0.63	15.85	4.55	0	1
-11649	0.56	15.85	4.55	0	1	-11648	0.50	15.85	4.55	0	1	-11647	0.33	15.85	4.55	0	1
-11646	0.25	15.85	4.55	0	1	-11645	0.17	15.85	4.55	0	1	-11644	0.09	15.85	4.55	0	1
-11643	0.02	15.85	4.55	0	1	-11642	-0.06	15.85	4.55	0	1	-11641	-0.15	15.85	4.55	0	1

-11640	-0.24	15.85	4.55	0	1	-11639	-0.33	15.85	4.55	0	1	-11638	-0.41	15.85	4.55	0	1
-11637	0.45	9.79	4.55	0	1	-11636	0.39	10.77	4.55	0	1	-11635	0.39	6.86	4.55	0	1
-11634	2.00	1.78	4.55	0	1	-11633	1.91	1.78	4.55	0	1	-11632	1.83	1.78	4.55	0	1
-11631	1.74	1.78	4.55	0	1	-11630	1.65	1.78	4.55	0	1	-11629	1.56	1.78	4.55	0	1
-11628	1.48	1.78	4.55	0	1	-11627	1.41	1.78	4.55	0	1	-11626	1.33	1.78	4.55	0	1
-11625	1.25	1.78	4.55	0	1	-11624	1.17	1.78	4.55	0	1	-11623	1.09	1.78	4.55	0	1
-11622	1.00	1.78	4.55	0	1	-11621	0.94	1.78	4.55	0	1	-11620	0.88	1.78	4.55	0	1
-11619	0.81	1.78	4.55	0	1	-11618	0.75	1.78	4.55	0	1	-11617	0.69	1.78	4.55	0	1
-11616	0.63	1.78	4.55	0	1	-11615	0.56	1.78	4.55	0	1	-11614	0.50	1.78	4.55	0	1
-11613	0.41	1.78	4.55	0	1	-11612	0.33	1.78	4.55	0	1	-11611	0.25	1.78	4.55	0	1
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-11607	-0.06	1.78	4.55	0	1	-11606	-0.15	1.78	4.55	0	1	-11605	-0.24	1.78	4.55	0	1
-11604	-0.33	1.78	4.55	0	1	-11603	-0.41	1.78	4.55	0	1	-11602	-0.50	1.78	4.55	0	1
-11601	2.00	15.95	4.55	0	1	-11600	1.91	15.95	4.55	0	1	-11599	1.82	15.95	4.55	0	1
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-11589	1.00	15.95	4.55	0	1	-11588	0.94	15.95	4.55	0	1	-11587	0.88	15.95	4.55	0	1
-11586	0.81	15.95	4.55	0	1	-11585	0.75	15.95	4.55	0	1	-11584	0.69	15.95	4.55	0	1
-11583	0.63	15.95	4.55	0	1	-11582	0.56	15.95	4.55	0	1	-11581	0.50	15.95	4.55	0	1
-11580	0.41	15.95	4.55	0	1	-11579	0.33	15.95	4.55	0	1	-11578	0.25	15.95	4.55	0	1
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-11571	-0.32	15.95	4.55	0	1	-11570	-0.41	15.95	4.55	0	1	-11569	-0.50	15.95	4.55	0	1
-11568	0.88	12.73	4.55	0	1	-11567	0.63	12.73	4.55	0	1	-11566	0.88	4.91	4.55	0	1
-11565	0.63	4.91	4.55	0	1	-11564	2.00	1.68	4.55	0	1	-11563	1.91	1.68	4.55	0	1
-11562	1.82	1.68	4.55	0	1	-11561	1.74	1.68	4.55	0	1	-11560	1.65	1.68	4.55	0	1
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-11556	1.33	1.68	4.55	0	1	-11555	1.25	1.68	4.55	0	1	-11554	1.17	1.68	4.55	0	1
-11553	1.09	1.68	4.55	0	1	-11552	1.00	1.68	4.55	0	1	-11551	0.94	1.68	4.55	0	1
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-11547	0.69	1.68	4.55	0	1	-11546	0.63	1.68	4.55	0	1	-11545	0.56	1.68	4.55	0	1
-11544	0.50	1.68	4.55	0	1	-11543	0.41	1.68	4.55	0	1	-11542	0.33	1.68	4.55	0	1
-11541	0.25	1.68	4.55	0	1	-11540	0.17	1.68	4.55	0	1	-11539	0.09	1.68	4.55	0	1
-11538	0.01	1.68	4.55	0	1	-11537	-0.07	1.68	4.55	0	1	-11536	-0.15	1.68	4.55	0	1
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-11520	1.09	16.05	4.54	0	1	-11519	1.00	16.05	4.54	0	1	-11518	0.94	16.05	4.54	0	1
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-11505	0.01	16.05	4.54	0	1	-11504	-0.07	16.05	4.54	0	1	-11503	-0.15	16.05	4.54	0	1
-11502	-0.24	16.05	4.54	0	1	-11501	-0.32	16.05	4.54	0	1	-11500	-0.41	16.05	4.54	0	1
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-11496	1.64	2.95	4.54	0	1	-11495	-0.14	2.95	4.54	0	1	-11494	2.00	1.58	4.54	0	1
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-11472	0.33	1.58	4.54	0	1	-11471	0.25	1.58	4.54	0	1	-11470	0.17	1.58	4.54	0	1
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-11466	-0.15	1.58	4.54	0	1	-11465	-0.24	1.58	4.54	0	1	-11464	-0.32	1.58	4.54	0	1
-11463	-0.41	1.58	4.54	0	1	-11462	-0.50	1.58	4.54	0	1	-11461	2.00	16.15	4.54	0	1
-11460	1.91	16.15	4.54	0	1	-11459	1.82	16.15	4.54	0	1	-11458	1.74	16.15	4.54	0	1
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-11433	-0.15	16.15	4.54	0	1	-11432	-0.24	16.15	4.54	0	1	-11431	-0.32	16.15	4.54	0	1
-11430	-0.41	16.15	4.54	0	1	-11429	-0.50	16.15	4.54	0	1	-11428	0.91	12.72	4.54	0	1
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-11409	0.81	1.49	4.54	0	1	-11408	0.75	1.49	4.54	0	1	-11407	0.69	1.49	4.54	0	1
-11406	0.63	1.49	4.54	0	1	-11405	0.56	1.49	4.54	0	1	-11404	0.50	1.49	4.54	0	1



-11403	0.41	1.49	4.54	0	1	-11402	0.33	1.49	4.54	0	1	-11401	0.25	1.49	4.54	0	1
-11400	0.17	1.49	4.54	0	1	-11399	0.09	1.49	4.54	0	1	-11398	0.01	1.49	4.54	0	1
-11397	-0.07	1.49	4.54	0	1	-11396	-0.15	1.49	4.54	0	1	-11395	-0.24	1.49	4.54	0	1
-11394	-0.32	1.49	4.54	0	1	-11393	-0.41	1.49	4.54	0	1	-11392	-0.50	1.49	4.54	0	1
-11391	2.00	16.24	4.54	0	1	-11390	1.91	16.24	4.54	0	1	-11389	1.82	16.24	4.54	0	1
-11388	1.74	16.24	4.54	0	1	-11387	1.65	16.24	4.54	0	1	-11386	1.57	16.24	4.54	0	1
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-11370	0.41	16.24	4.54	0	1	-11369	0.33	16.24	4.54	0	1	-11368	0.25	16.24	4.54	0	1
-11367	0.17	16.24	4.54	0	1	-11366	0.09	16.24	4.54	0	1	-11365	0.01	16.24	4.54	0	1
-11364	-0.07	16.24	4.54	0	1	-11363	-0.15	16.24	4.54	0	1	-11362	-0.24	16.24	4.54	0	1
-11361	-0.32	16.24	4.54	0	1	-11360	-0.41	16.24	4.54	0	1	-11359	-0.50	16.24	4.54	0	1
-11358	2.00	1.39	4.54	0	1	-11357	1.91	1.39	4.54	0	1	-11356	1.82	1.39	4.54	0	1
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-11352	1.49	1.39	4.54	0	1	-11351	1.41	1.39	4.54	0	1	-11350	1.33	1.39	4.54	0	1
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-11340	0.63	1.39	4.54	0	1	-11339	0.56	1.39	4.54	0	1	-11338	0.50	1.39	4.54	0	1
-11337	0.41	1.39	4.54	0	1	-11336	0.33	1.39	4.54	0	1	-11335	0.25	1.39	4.54	0	1
-11334	0.17	1.39	4.54	0	1	-11333	0.09	1.39	4.54	0	1	-11332	0.01	1.39	4.54	0	1
-11331	-0.07	1.39	4.54	0	1	-11330	-0.15	1.39	4.54	0	1	-11329	-0.24	1.39	4.54	0	1
-11328	-0.32	1.39	4.54	0	1	-11327	-0.41	1.39	4.54	0	1	-11326	-0.50	1.39	4.54	0	1
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-11313	1.00	16.34	4.54	0	1	-11312	0.94	16.34	4.54	0	1	-11311	0.88	16.34	4.54	0	1
-11310	0.81	16.34	4.54	0	1	-11309	0.75	16.34	4.54	0	1	-11308	0.69	16.34	4.54	0	1
-11307	0.63	16.34	4.54	0	1	-11306	0.56	16.34	4.54	0	1	-11305	0.50	16.34	4.54	0	1
-11304	0.41	16.34	4.54	0	1	-11303	0.33	16.34	4.54	0	1	-11302	0.25	16.34	4.54	0	1
-11301	0.17	16.34	4.54	0	1	-11300	0.09	16.34	4.54	0	1	-11299	0.01	16.34	4.54	0	1
-11298	-0.07	16.34	4.54	0	1	-11297	-0.15	16.34	4.54	0	1	-11296	-0.24	16.34	4.54	0	1
-11295	-0.32	16.34	4.54	0	1	-11294	-0.41	16.34	4.54	0	1	-11293	-0.50	16.34	4.54	0	1
-11292	1.48	11.75	4.54	0	1	-11291	0.03	11.75	4.54	0	1	-11290	0.88	8.82	4.54	0	1
-11289	0.63	8.82	4.54	0	1	-11288	1.48	5.88	4.54	0	1	-11287	0.03	5.88	4.54	0	1
-11286	2.00	1.29	4.54	0	1	-11285	1.91	1.29	4.54	0	1	-11284	1.82	1.29	4.54	0	1
-11283	1.74	1.29	4.54	0	1	-11282	1.65	1.29	4.54	0	1	-11281	1.57	1.29	4.54	0	1
-11280	1.49	1.29	4.54	0	1	-11279	1.41	1.29	4.54	0	1	-11278	1.33	1.29	4.54	0	1
-11277	1.25	1.29	4.54	0	1	-11276	1.17	1.29	4.54	0	1	-11275	1.09	1.29	4.54	0	1
-11274	1.00	1.29	4.54	0	1	-11273	0.94	1.29	4.54	0	1	-11272	0.88	1.29	4.54	0	1
-11271	0.81	1.29	4.54	0	1	-11270	0.75	1.29	4.54	0	1	-11269	0.69	1.29	4.54	0	1
-11268	0.63	1.29	4.54	0	1	-11267	0.56	1.29	4.54	0	1	-11266	0.50	1.29	4.54	0	1
-11265	0.41	1.29	4.54	0	1	-11264	0.33	1.29	4.54	0	1	-11263	0.25	1.29	4.54	0	1
-11262	0.17	1.29	4.54	0	1	-11261	0.09	1.29	4.54	0	1	-11260	0.01	1.29	4.54	0	1
-11259	-0.07	1.29	4.54	0	1	-11258	-0.15	1.29	4.54	0	1	-11257	-0.24	1.29	4.54	0	1
-11256	-0.32	1.29	4.54	0	1	-11255	-0.41	1.29	4.54	0	1	-11254	-0.50	1.29	4.54	0	1
-11253	2.00	16.44	4.54	0	1	-11252	1.91	16.44	4.54	0	1	-11251	1.83	16.44	4.54	0	1
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-11247	1.48	16.44	4.54	0	1	-11246	1.41	16.44	4.54	0	1	-11245	1.33	16.44	4.54	0	1
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-11241	1.00	16.44	4.54	0	1	-11240	0.94	16.44	4.54	0	1	-11239	0.88	16.44	4.54	0	1
-11238	0.81	16.44	4.54	0	1	-11237	0.75	16.44	4.54	0	1	-11236	0.69	16.44	4.54	0	1
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-11232	0.41	16.44	4.54	0	1	-11231	0.33	16.44	4.54	0	1	-11230	0.25	16.44	4.54	0	1
-11229	0.17	16.44	4.54	0	1	-11228	0.09	16.44	4.54	0	1	-11227	0.02	16.44	4.54	0	1
-11226	-0.06	16.44	4.54	0	1	-11225	-0.15	16.44	4.54	0	1	-11224	-0.24	16.44	4.54	0	1
-11223	-0.33	16.44	4.54	0	1	-11222	-0.41	16.44	4.54	0	1	-11221	-0.50	16.44	4.54	0	1
-11220	2.00	1.19	4.54	0	1	-11219	1.91	1.19	4.54	0	1	-11218	1.83	1.19	4.54	0	1
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-11193	-0.06	1.19	4.54	0	1	-11192	-0.15	1.19	4.54	0	1	-11191	-0.24	1.19	4.54	0	1
-11190	-0.33	1.19	4.54	0	1	-11189	-0.41	1.19	4.54	0	1	-11188	-0.50	1.19	4.54	0	1
-11187	2.00	16.54	4.54	0	1	-11186	1.91	16.54	4.54	0	1	-11185	1.83	16.54	4.54	0	1
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-11175	1.00	16.54	4.54	0	1	-11174	0.94	16.54	4.54	0	1	-11173	0.88	16.54	4.54	0	1
-11172	0.81	16.54	4.54	0	1	-11171	0.75	16.54	4.54	0	1	-11170	0.69	16.54	4.54	0	1
-11169	0.63	16.54	4.54	0	1	-11168	0.56	16.54	4.54	0	1	-11167	0.50	16.54	4.54	0	1

-11166	0.41	16.54	4.54	0	1	-11165	0.32	16.54	4.54	0	1	-11164	0.24	16.54	4.54	0	1
-11163	0.17	16.54	4.54	0	1	-11162	0.09	16.54	4.54	0	1	-11161	0.02	16.54	4.54	0	1
-11160	-0.06	16.54	4.54	0	1	-11159	-0.14	16.54	4.54	0	1	-11158	-0.24	16.54	4.54	0	1
-11157	-0.33	16.54	4.54	0	1	-11156	-0.41	16.54	4.54	0	1	-11155	-0.50	16.54	4.54	0	1
-11154	2.00	1.10	4.54	0	1	-11153	1.91	1.10	4.54	0	1	-11152	1.83	1.10	4.54	0	1
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-11142	1.00	1.10	4.54	0	1	-11141	0.94	1.10	4.54	0	1	-11140	0.88	1.10	4.54	0	1
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-11127	-0.06	1.10	4.54	0	1	-11126	-0.14	1.10	4.54	0	1	-11125	-0.24	1.10	4.54	0	1
-11124	-0.33	1.10	4.54	0	1	-11123	-0.41	1.10	4.54	0	1	-11122	-0.50	1.10	4.54	0	1
-11121	2.00	16.64	4.54	0	1	-11120	1.92	16.64	4.54	0	1	-11119	1.83	16.64	4.54	0	1
-11118	1.73	16.64	4.54	0	1	-11117	1.64	16.64	4.54	0	1	-11116	1.55	16.64	4.54	0	1
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-11106	0.81	16.64	4.54	0	1	-11105	0.75	16.64	4.54	0	1	-11104	0.69	16.64	4.54	0	1
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-11097	0.17	16.64	4.54	0	1	-11096	0.10	16.64	4.54	0	1	-11095	0.03	16.64	4.54	0	1
-11094	-0.06	16.64	4.54	0	1	-11093	-0.14	16.64	4.54	0	1	-11092	-0.23	16.64	4.54	0	1
-11091	-0.33	16.64	4.54	0	1	-11090	-0.42	16.64	4.54	0	1	-11089	-0.50	16.64	4.54	0	1
-11088	2.00	1.00	4.54	0	1	-11087	1.92	1.00	4.54	0	1	-11086	1.83	1.00	4.54	0	1
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-11073	0.75	1.00	4.54	0	1	-11072	0.69	1.00	4.54	0	1	-11071	0.63	1.00	4.54	0	1
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-11067	0.31	1.00	4.54	0	1	-11066	0.24	1.00	4.54	0	1	-11065	0.17	1.00	4.54	0	1
-11064	0.10	1.00	4.54	0	1	-11063	-0.14	1.00	4.54	0	1	-11062	-0.33	1.00	4.54	0	1
-11061	-0.42	1.00	4.54	0	1	-11060	-0.50	1.00	4.54	0	1	-11059	2.00	16.73	4.53	0	1
-11058	1.91	16.73	4.53	0	1	-11057	1.83	16.73	4.53	0	1	-11056	1.74	16.73	4.53	0	1
-11055	1.64	16.73	4.53	0	1	-11054	1.00	16.73	4.53	0	1	-11053	0.94	16.73	4.53	0	1
-11052	1.05	10.77	4.53	0	1	-11051	0.03	1.00	4.54	0	1	-11050	-0.06	1.00	4.54	0	1
-11049	1.56	16.73	4.53	0	1	-11048	1.48	16.73	4.53	0	1	-11047	1.33	16.73	4.53	0	1
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-11040	0.45	6.86	4.53	0	1	-11039	1.64	1.00	4.54	0	1	-11038	-0.23	1.00	4.54	0	1
-11037	1.41	16.73	4.53	0	1	-11036	0.88	16.73	4.53	0	1	-11035	0.81	16.73	4.53	0	1
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-11031	0.50	16.73	4.53	0	1	-11030	0.32	16.73	4.53	0	1	-11029	0.24	16.73	4.53	0	1
-11028	0.17	16.73	4.53	0	1	-11027	0.09	16.73	4.53	0	1	-11026	0.02	16.73	4.53	0	1
-11025	-0.06	16.73	4.53	0	1	-11024	-0.14	16.73	4.53	0	1	-11023	-0.33	16.73	4.53	0	1
-11022	-0.41	16.73	4.53	0	1	-11021	-0.50	16.73	4.53	0	1	-11020	0.45	10.77	4.53	0	1
-11019	0.88	13.70	4.53	0	1	-11018	0.63	13.70	4.53	0	1	-11017	0.39	11.75	4.53	0	1
-11016	1.05	6.86	4.53	0	1	-11015	0.91	8.82	4.53	0	1	-11014	0.59	8.82	4.53	0	1
-11013	0.39	5.88	4.53	0	1	-11012	0.88	3.93	4.53	0	1	-11011	2.00	0.90	4.53	0	1
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-11004	1.41	0.90	4.53	0	1	-11003	1.33	0.90	4.53	0	1	-11002	1.26	0.90	4.53	0	1
-11001	1.18	0.90	4.53	0	1	-11000	1.09	0.90	4.53	0	1	-10999	1.00	0.90	4.53	0	1
-10998	0.94	0.90	4.53	0	1	-10997	0.88	0.90	4.53	0	1	-10996	0.81	0.90	4.53	0	1
-10995	0.75	0.90	4.53	0	1	-10994	0.69	0.90	4.53	0	1	-10993	0.63	0.90	4.53	0	1
-10992	0.56	0.90	4.53	0	1	-10991	0.50	0.90	4.53	0	1	-10990	0.41	0.90	4.53	0	1
-10989	0.32	0.90	4.53	0	1	-10988	0.24	0.90	4.53	0	1	-10987	0.17	0.90	4.53	0	1
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-10983	-0.14	0.90	4.53	0	1	-10982	-0.24	0.90	4.53	0	1	-10981	-0.33	0.90	4.53	0	1
-10980	-0.41	0.90	4.53	0	1	-10979	-0.50	0.90	4.53	0	1	-10978	2.00	16.83	4.53	0	1
-10977	1.91	16.83	4.53	0	1	-10976	1.83	16.83	4.53	0	1	-10975	1.74	16.83	4.53	0	1
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-10950	-0.15	16.83	4.53	0	1	-10949	-0.24	16.83	4.53	0	1	-10948	-0.33	16.83	4.53	0	1
-10947	-0.41	16.83	4.53	0	1	-10946	-0.50	16.83	4.53	0	1	-10945	0.63	3.93	4.53	0	1
-10944	2.00	0.80	4.53	0	1	-10943	1.91	0.80	4.53	0	1	-10942	1.83	0.80	4.53	0	1
-10941	1.74	0.80	4.53	0	1	-10940	1.65	0.80	4.53	0	1	-10939	1.56	0.80	4.53	0	1
-10938	1.48	0.80	4.53	0	1	-10937	1.41	0.80	4.53	0	1	-10936	1.33	0.80	4.53	0	1
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-10932	0.88	0.80	4.53	0	1	-10931	0.81	0.80	4.53	0	1	-10930	0.75	0.80	4.53	0	1

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-10926	0.41	0.80	4.53	0	1	-10925	0.33	0.80	4.53	0	1	-10924	0.25	0.80	4.53	0	1
-10923	0.17	0.80	4.53	0	1	-10922	0.09	0.80	4.53	0	1	-10921	-0.06	0.80	4.53	0	1
-10920	-0.15	0.80	4.53	0	1	-10919	-0.24	0.80	4.53	0	1	-10918	-0.33	0.80	4.53	0	1
-10917	1.91	16.93	4.53	0	1	-10916	1.65	16.93	4.53	0	1	-10915	-0.14	1.97	4.53	0	1
-10914	1.17	0.80	4.53	0	1	-10913	-0.41	0.80	4.53	0	1	-10912	-0.50	0.80	4.53	0	1
-10911	2.00	16.93	4.53	0	1	-10910	1.82	16.93	4.53	0	1	-10909	1.74	16.93	4.53	0	1
-10908	1.57	16.93	4.53	0	1	-10907	1.49	16.93	4.53	0	1	-10906	1.33	16.93	4.53	0	1
-10905	1.25	16.93	4.53	0	1	-10904	1.17	16.93	4.53	0	1	-10903	1.09	16.93	4.53	0	1
-10902	0.94	16.93	4.53	0	1	-10901	0.88	16.93	4.53	0	1	-10900	0.81	16.93	4.53	0	1
-10899	0.75	16.93	4.53	0	1	-10898	0.69	16.93	4.53	0	1	-10897	0.50	16.93	4.53	0	1
-10896	0.41	16.93	4.53	0	1	-10895	1.64	15.66	4.53	0	1	-10894	1.09	0.80	4.53	0	1
-10893	0.63	0.80	4.53	0	1	-10892	0.02	0.80	4.53	0	1	-10891	1.41	16.93	4.53	0	1
-10890	1.00	16.93	4.53	0	1	-10889	0.63	16.93	4.53	0	1	-10888	0.56	16.93	4.53	0	1
-10887	0.33	16.93	4.53	0	1	-10886	0.25	16.93	4.53	0	1	-10885	0.17	16.93	4.53	0	1
-10884	0.09	16.93	4.53	0	1	-10883	0.01	16.93	4.53	0	1	-10882	-0.07	16.93	4.53	0	1
-10881	-0.15	16.93	4.53	0	1	-10880	-0.24	16.93	4.53	0	1	-10879	-0.32	16.93	4.53	0	1
-10878	-0.41	16.93	4.53	0	1	-10877	-0.50	16.93	4.53	0	1	-10876	-0.14	15.66	4.53	0	1
-10875	1.64	1.97	4.53	0	1	-10874	0.59	3.93	4.53	0	1	-10873	2.00	0.70	4.53	0	1
-10872	1.91	0.70	4.53	0	1	-10871	1.82	0.70	4.53	0	1	-10870	1.74	0.70	4.53	0	1
-10869	1.65	0.70	4.53	0	1	-10868	1.57	0.70	4.53	0	1	-10867	1.41	0.70	4.53	0	1
-10866	1.33	0.70	4.53	0	1	-10865	1.25	0.70	4.53	0	1	-10864	1.17	0.70	4.53	0	1
-10863	1.09	0.70	4.53	0	1	-10862	0.94	0.70	4.53	0	1	-10861	0.88	0.70	4.53	0	1
-10860	0.81	0.70	4.53	0	1	-10859	0.75	0.70	4.53	0	1	-10858	0.63	0.70	4.53	0	1
-10857	0.33	0.70	4.53	0	1	-10856	0.17	0.70	4.53	0	1	-10855	0.09	0.70	4.53	0	1
-10854	0.01	0.70	4.53	0	1	-10853	-0.24	0.70	4.53	0	1	-10852	1.49	17.03	4.53	0	1
-10851	0.50	17.03	4.53	0	1	-10850	0.33	17.03	4.53	0	1	-10849	0.25	17.03	4.53	0	1
-10848	0.09	17.03	4.53	0	1	-10847	0.91	13.70	4.53	0	1	-10846	0.91	3.93	4.53	0	1
-10845	1.49	0.70	4.53	0	1	-10844	1.00	0.70	4.53	0	1	-10843	0.56	0.70	4.53	0	1
-10842	0.50	0.70	4.53	0	1	-10841	0.25	0.70	4.53	0	1	-10840	-0.07	0.70	4.53	0	1
-10839	-0.32	0.70	4.53	0	1	-10838	-0.41	0.70	4.53	0	1	-10837	-0.50	0.70	4.53	0	1
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-10821	0.75	17.03	4.53	0	1	-10820	0.69	17.03	4.53	0	1	-10819	0.63	17.03	4.53	0	1
-10818	0.56	17.03	4.53	0	1	-10817	0.41	17.03	4.53	0	1	-10816	0.17	17.03	4.53	0	1
-10815	0.01	17.03	4.53	0	1	-10814	-0.07	17.03	4.53	0	1	-10813	-0.15	17.03	4.53	0	1
-10812	-0.24	17.03	4.53	0	1	-10811	-0.32	17.03	4.53	0	1	-10810	0.59	13.70	4.53	0	1
-10809	0.69	0.70	4.53	0	1	-10808	0.41	0.70	4.53	0	1	-10807	-0.15	0.70	4.53	0	1
-10806	-0.41	17.03	4.53	0	1	-10805	-0.50	17.03	4.53	0	1	-10804	2.00	0.61	4.53	0	1
-10803	1.91	0.61	4.53	0	1	-10802	1.82	0.61	4.53	0	1	-10801	1.74	0.61	4.53	0	1
-10800	1.65	0.61	4.53	0	1	-10799	1.57	0.61	4.53	0	1	-10798	1.49	0.61	4.53	0	1
-10797	1.41	0.61	4.53	0	1	-10796	1.33	0.61	4.53	0	1	-10795	1.25	0.61	4.53	0	1
-10794	1.17	0.61	4.53	0	1	-10793	1.09	0.61	4.53	0	1	-10792	1.00	0.61	4.53	0	1
-10791	0.94	0.61	4.53	0	1	-10790	0.88	0.61	4.53	0	1	-10789	0.81	0.61	4.53	0	1
-10788	0.75	0.61	4.53	0	1	-10787	0.69	0.61	4.53	0	1	-10786	0.63	0.61	4.53	0	1
-10785	0.56	0.61	4.53	0	1	-10784	0.50	0.61	4.53	0	1	-10783	0.41	0.61	4.53	0	1
-10782	0.33	0.61	4.53	0	1	-10781	0.25	0.61	4.53	0	1	-10780	0.17	0.61	4.53	0	1
-10779	0.09	0.61	4.53	0	1	-10778	0.01	0.61	4.53	0	1	-10777	-0.07	0.61	4.53	0	1
-10776	-0.15	0.61	4.53	0	1	-10775	-0.24	0.61	4.53	0	1	-10774	-0.32	0.61	4.53	0	1
-10773	-0.41	0.61	4.53	0	1	-10772	-0.50	0.61	4.53	0	1	-10771	2.00	17.12	4.53	0	1
-10770	1.91	17.12	4.53	0	1	-10769	1.82	17.12	4.53	0	1	-10768	1.74	17.12	4.53	0	1
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-10755	0.75	17.12	4.53	0	1	-10754	0.69	17.12	4.53	0	1	-10753	0.63	17.12	4.53	0	1
-10752	0.56	17.12	4.53	0	1	-10751	0.50	17.12	4.53	0	1	-10750	0.41	17.12	4.53	0	1
-10749	0.33	17.12	4.53	0	1	-10748	0.25	17.12	4.53	0	1	-10747	0.17	17.12	4.53	0	1
-10746	0.09	17.12	4.53	0	1	-10745	0.01	17.12	4.53	0	1	-10744	-0.07	17.12	4.53	0	1
-10743	-0.15	17.12	4.53	0	1	-10742	-0.24	17.12	4.53	0	1	-10741	-0.32	17.12	4.53	0	1
-10740	-0.41	17.12	4.53	0	1	-10739	-0.50	17.12	4.53	0	1	-10738	0.88	14.58	4.53	0	1
-10737	0.63	14.58	4.53	0	1	-10736	0.88	13.80	4.53	0	1	-10735	0.63	13.80	4.53	0	1
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-10722	0.88	3.83	4.53	0	1	-10721	0.63	3.83	4.53	0	1	-10720	0.88	3.05	4.53	0	1
-10719	0.63	3.05	4.53	0	1	-10718	2.00	0.51	4.53	0	1	-10717	1.91	0.51	4.53	0	1
-10716	1.74	0.51	4.53	0	1	-10715	1.65	0.51	4.53	0	1	-10714	1.57	0.51	4.53	0	1
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-10710	1.25	0.51	4.53	0	1	-10709	1.17	0.51	4.53	0	1	-10708	1.09	0.51	4.53	0	1
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-10701	0.56	0.51	4.53	0	1	-10700	0.50	0.51	4.53	0	1	-10699	0.33	0.51	4.53	0	1
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-10695	-0.07	0.51	4.53	0	1	-10694	-0.15	0.51	4.53	0	1	-10693	-0.41	0.51	4.53	0	1

-10692	1.82	17.22	4.53	0	1	-10691	1.74	17.22	4.53	0	1	-10690	0.94	17.22	4.53	0	1
-10689	0.88	3.73	4.53	0	1	-10688	0.63	3.15	4.53	0	1	-10687	-0.23	1.00	4.53	0	1
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-10683	-0.24	0.51	4.53	0	1	-10682	-0.32	0.51	4.53	0	1	-10681	-0.50	0.51	4.53	0	1
-10680	2.00	17.22	4.53	0	1	-10679	1.91	17.22	4.53	0	1	-10678	1.65	17.22	4.53	0	1
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-10671	1.00	17.22	4.53	0	1	-10670	0.88	17.22	4.53	0	1	-10669	0.75	17.22	4.53	0	1
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-10662	0.17	17.22	4.53	0	1	-10661	0.01	17.22	4.53	0	1	-10660	-0.07	17.22	4.53	0	1
-10659	-0.15	17.22	4.53	0	1	-10658	-0.41	17.22	4.53	0	1	-10657	-0.50	17.22	4.53	0	1
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-10644	0.63	13.51	4.53	0	1	-10643	0.63	12.92	4.53	0	1	-10642	1.48	12.73	4.53	0	1
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-10626	1.74	0.41	4.53	0	1	-10625	1.33	17.32	4.52	0	1	-10624	0.50	17.32	4.52	0	1
-10623	0.41	17.32	4.52	0	1	-10622	0.88	13.41	4.53	0	1	-10621	0.88	12.92	4.53	0	1
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-10614	0.63	14.39	4.53	0	1	-10613	0.88	13.90	4.53	0	1	-10612	0.03	12.73	4.53	0	1
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-10584	-0.07	0.41	4.53	0	1	-10583	-0.15	0.41	4.53	0	1	-10582	-0.24	0.41	4.53	0	1
-10581	-0.50	0.41	4.53	0	1	-10580	2.00	17.32	4.52	0	1	-10579	1.82	17.32	4.52	0	1
-10578	1.74	17.32	4.52	0	1	-10577	1.17	17.32	4.52	0	1	-10576	1.00	17.32	4.52	0	1
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-10554	0.88	3.64	4.53	0	1	-10553	0.94	0.41	4.53	0	1	-10552	0.25	0.41	4.53	0	1
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-10548	0.88	13.02	4.53	0	1	-10547	0.63	13.02	4.53	0	1	-10546	0.63	4.71	4.53	0	1
-10545	0.81	17.32	4.52	0	1	-10544	0.25	17.32	4.52	0	1	-10543	0.63	4.61	4.53	0	1
-10542	0.63	3.73	4.53	0	1	-10541	1.00	0.41	4.53	0	1	-10540	-0.32	0.41	4.53	0	1
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-10536	0.01	17.32	4.52	0	1	-10535	-0.41	17.32	4.52	0	1	-10534	0.88	14.29	4.52	0	1
-10533	0.63	14.09	4.52	0	1	-10532	0.88	4.52	4.52	0	1	-10531	0.63	4.42	4.52	0	1
-10530	0.88	4.32	4.52	0	1	-10529	0.63	4.32	4.52	0	1	-10528	0.88	3.54	4.52	0	1
-10527	0.63	3.44	4.52	0	1	-10526	0.88	3.25	4.53	0	1	-10525	0.88	3.15	4.53	0	1
-10524	1.41	0.41	4.53	0	1	-10523	0.63	3.54	4.52	0	1	-10522	0.88	3.44	4.52	0	1
-10521	0.88	3.34	4.52	0	1	-10520	0.63	3.34	4.52	0	1	-10519	0.63	3.25	4.53	0	1
-10518	2.00	0.31	4.52	0	1	-10517	1.91	0.31	4.52	0	1	-10516	1.82	0.31	4.52	0	1
-10515	1.74	0.31	4.52	0	1	-10514	1.65	0.31	4.52	0	1	-10513	1.57	0.31	4.52	0	1
-10512	1.49	0.31	4.52	0	1	-10511	1.41	0.31	4.52	0	1	-10510	1.33	0.31	4.52	0	1
-10509	1.25	0.31	4.52	0	1	-10508	1.17	0.31	4.52	0	1	-10507	1.09	0.31	4.52	0	1
-10506	1.00	0.31	4.52	0	1	-10505	0.94	0.31	4.52	0	1	-10504	0.88	0.31	4.52	0	1
-10503	0.81	0.31	4.52	0	1	-10502	0.75	0.31	4.52	0	1	-10501	0.69	0.31	4.52	0	1
-10500	0.63	0.31	4.52	0	1	-10499	0.56	0.31	4.52	0	1	-10498	0.50	0.31	4.52	0	1
-10497	0.41	0.31	4.52	0	1	-10496	0.33	0.31	4.52	0	1	-10495	0.25	0.31	4.52	0	1
-10494	0.17	0.31	4.52	0	1	-10493	0.09	0.31	4.52	0	1	-10492	0.01	0.31	4.52	0	1
-10491	-0.07	0.31	4.52	0	1	-10490	-0.15	0.31	4.52	0	1	-10489	-0.24	0.31	4.52	0	1
-10488	-0.32	0.31	4.52	0	1	-10487	-0.41	0.31	4.52	0	1	-10486	-0.50	0.31	4.52	0	1
-10485	2.00	17.42	4.52	0	1	-10484	1.91	17.42	4.52	0	1	-10483	1.83	17.42	4.52	0	1
-10482	1.74	17.42	4.52	0	1	-10481	1.65	17.42	4.52	0	1	-10480	1.56	17.42	4.52	0	1
-10479	1.48	17.42	4.52	0	1	-10478	1.41	17.42	4.52	0	1	-10477	1.33	17.42	4.52	0	1
-10476	1.25	17.42	4.52	0	1	-10475	1.17	17.42	4.52	0	1	-10474	1.09	17.42	4.52	0	1
-10473	1.00	17.42	4.52	0	1	-10472	0.94	17.42	4.52	0	1	-10471	0.88	17.42	4.52	0	1
-10470	0.81	17.42	4.52	0	1	-10469	0.75	17.42	4.52	0	1	-10468	0.69	17.42	4.52	0	1
-10467	0.63	17.42	4.52	0	1	-10466	0.56	17.42	4.52	0	1	-10465	0.50	17.42	4.52	0	1
-10464	0.41	17.42	4.52	0	1	-10463	0.33	17.42	4.52	0	1	-10462	0.25	17.42	4.52	0	1
-10461	0.17	17.42	4.52	0	1	-10460	0.09	17.42	4.52	0	1	-10459	0.02	17.42	4.52	0	1
-10458	-0.06	17.42	4.52	0	1	-10457	-0.15	17.42	4.52	0	1	-10456	-0.24	17.42	4.52	0	1

-10455	-0.33	17.42	4.52	0	1	-10454	-0.41	17.42	4.52	0	1	-10453	-0.50	17.42	4.52	0	1
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-10449	1.83	0.22	4.52	0	1	-10448	1.74	0.22	4.52	0	1	-10447	1.48	0.22	4.52	0	1
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-10419	-0.24	0.22	4.52	0	1	-10418	-0.33	0.22	4.52	0	1	-10417	-0.41	0.22	4.52	0	1
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-10413	1.83	17.51	4.52	0	1	-10412	1.74	17.51	4.52	0	1	-10411	1.64	17.51	4.52	0	1
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-10386	-0.41	17.51	4.52	0	1	-10385	-0.50	17.51	4.52	0	1	-10384	1.05	11.75	4.52	0	1
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-10341	-0.24	0.12	4.52	0	1	-10340	-0.33	0.12	4.52	0	1	-10339	-0.41	0.12	4.52	0	1
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-10210	0.55	7.84	4.51	0	1	-10209	0.99	2.95	4.51	0	1	-10208	0.51	2.95	4.51	0	1
-10207	1.48	13.70	4.51	0	1	-10206	0.03	13.70	4.51	0	1	-10205	0.88	10.77	4.51	0	1
-10204	0.63	10.77	4.51	0	1	-10203	1.48	3.93	4.51	0	1	-10202	0.03	3.93	4.51	0	1
-10187	0.88	9.60	4.51	0	1	-10186	0.63	9.60	4.51	0	1	-10185	0.88	9.01	4.51	0	1
-10184	0.63	9.01	4.51	0	1	-10183	0.88	8.62	4.51	0	1	-10182	0.63	8.62	4.51	0	1
-10181	0.88	8.03	4.51	0	1	-10180	0.63	8.03	4.51	0	1	-10179	0.88	6.86	4.51	0	1
-10178	0.63	6.86	4.51	0	1	-10157	0.88	9.50	4.51	0	1	-10156	0.63	9.50	4.51	0	1
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-10149	0.88	9.40	4.51	0	1	-10148	0.63	9.40	4.51	0	1	-10147	0.88	9.30	4.51	0	1
-10146	0.63	9.30	4.51	0	1	-10145	0.88	9.21	4.51	0	1	-10144	0.63	9.21	4.51	0	1
-10143	0.88	8.43	4.51	0	1	-10142	0.63	8.43	4.51	0	1	-10141	0.88	8.33	4.51	0	1
-10140	0.63	8.33	4.51	0	1	-10139	0.88	8.23	4.51	0	1	-10138	0.63	8.23	4.51	0	1

-10137	1.04	4.91	4.51	0	1	-10136	0.46	4.91	4.51	0	1	-10101	0.88	15.56	4.51	0	1
-10100	0.63	15.56	4.51	0	1	-10099	0.88	14.78	4.51	0	1	-10098	0.63	14.78	4.51	0	1
-10097	0.63	2.07	4.51	0	1	-10096	0.88	15.66	4.51	0	1	-10095	0.39	13.70	4.51	0	1
-10094	0.39	3.93	4.51	0	1	-10093	0.88	2.85	4.51	0	1	-10092	0.63	2.85	4.51	0	1
-10091	0.88	2.07	4.51	0	1	-10090	0.63	15.66	4.51	0	1	-10089	0.88	15.46	4.51	0	1
-10088	0.63	15.46	4.51	0	1	-10087	0.59	10.77	4.51	0	1	-10086	0.88	15.36	4.51	0	1
-10085	0.63	15.36	4.51	0	1	-10084	0.88	14.88	4.51	0	1	-10083	0.91	10.77	4.51	0	1
-10082	0.88	14.97	4.51	0	1	-10081	0.63	14.97	4.51	0	1	-10080	0.63	14.88	4.51	0	1
-10079	0.88	10.67	4.51	0	1	-10078	0.88	9.89	4.51	0	1	-10077	0.91	6.86	4.51	0	1
-10076	1.05	12.73	4.51	0	1	-10075	0.63	10.67	4.51	0	1	-10074	0.88	7.74	4.51	0	1
-10073	0.88	15.17	4.50	0	1	-10072	0.63	15.07	4.50	0	1	-10071	0.45	12.73	4.51	0	1
-10070	0.63	9.89	4.51	0	1	-10069	0.63	7.74	4.51	0	1	-10068	0.88	6.96	4.51	0	1
-10067	0.63	6.96	4.51	0	1	-10066	0.59	6.86	4.51	0	1	-10065	1.19	8.82	4.51	0	1
-10064	0.31	8.82	4.51	0	1	-10063	0.88	2.76	4.51	0	1	-10062	0.63	2.76	4.51	0	1
-10061	0.88	1.97	4.51	0	1	-10060	0.88	15.27	4.50	0	1	-10059	0.63	2.66	4.51	0	1
-10058	0.63	2.27	4.51	0	1	-10057	0.88	2.17	4.51	0	1	-10056	0.63	2.17	4.51	0	1
-10055	0.63	1.97	4.51	0	1	-10054	0.63	15.27	4.50	0	1	-10053	0.63	15.17	4.50	0	1
-10052	0.88	15.07	4.50	0	1	-10051	0.88	2.66	4.51	0	1	-10050	0.88	2.56	4.50	0	1
-10049	0.63	2.56	4.50	0	1	-10048	0.88	2.46	4.50	0	1	-10047	0.63	2.46	4.50	0	1
-10046	0.88	2.37	4.50	0	1	-10045	0.63	2.37	4.50	0	1	-10044	0.88	2.27	4.51	0	1
-10009	1.73	17.61	4.50	0	1	-10008	0.91	15.66	4.50	0	1	-10007	0.59	15.66	4.50	0	1
-10006	0.88	10.58	4.50	0	1	-10005	0.63	10.58	4.50	0	1	-10004	0.88	9.99	4.50	0	1
-10003	0.63	9.99	4.50	0	1	-10002	0.88	7.64	4.50	0	1	-10001	0.63	7.64	4.50	0	1
-10000	0.88	7.06	4.50	0	1	-9999	0.63	7.06	4.50	0	1	-9998	0.95	10.77	4.50	0	1
-9997	0.55	10.77	4.50	0	1	-9996	0.88	10.48	4.50	0	1	-9995	0.63	10.48	4.50	0	1
-9994	0.88	10.09	4.50	0	1	-9993	0.63	10.09	4.50	0	1	-9992	1.31	9.79	4.50	0	1
-9991	1.19	9.79	4.50	0	1	-9990	0.31	9.79	4.50	0	1	-9989	0.18	9.79	4.50	0	1
-9988	1.31	7.84	4.50	0	1	-9987	1.19	7.84	4.50	0	1	-9986	0.31	7.84	4.50	0	1
-9985	0.18	7.84	4.50	0	1	-9984	-0.23	0.02	4.50	0	1	-9983	0.88	7.55	4.50	0	1
-9982	0.63	7.55	4.50	0	1	-9981	0.88	7.15	4.50	0	1	-9980	0.63	7.15	4.50	0	1
-9979	0.95	6.86	4.50	0	1	-9978	0.55	6.86	4.50	0	1	-9977	0.99	1.97	4.50	0	1
-9976	0.51	1.97	4.50	0	1	-9975	0.63	5.88	4.50	0	1	-9964	0.03	14.68	4.50	0	1
-9952	1.48	14.68	4.50	0	1	-9951	0.63	11.75	4.50	0	1	-9950	0.63	7.25	4.50	0	1
-9949	1.48	2.95	4.50	0	1	-9948	1.19	2.95	4.50	0	1	-9947	0.03	2.95	4.50	0	1
-9933	0.88	11.75	4.50	0	1	-9932	0.88	10.38	4.50	0	1	-9931	0.63	10.38	4.50	0	1
-9930	0.88	10.28	4.50	0	1	-9929	0.63	10.28	4.50	0	1	-9928	0.88	10.18	4.50	0	1
-9927	0.63	10.18	4.50	0	1	-9926	0.88	7.45	4.50	0	1	-9925	0.63	7.45	4.50	0	1
-9924	0.88	7.35	4.50	0	1	-9923	0.63	7.35	4.50	0	1	-9922	0.88	7.25	4.50	0	1
-9921	0.88	5.88	4.50	0	1	-9920	0.88	16.54	4.50	0	1	-9919	0.63	16.54	4.50	0	1
-9918	0.88	15.76	4.50	0	1	-9917	0.63	15.76	4.50	0	1	-9916	0.88	1.88	4.50	0	1
-9915	0.63	1.88	4.50	0	1	-9914	0.88	1.10	4.50	0	1	-9913	0.63	1.10	4.50	0	1
-9895	1.55	16.64	4.50	0	1	-9894	-0.06	16.64	4.50	0	1	-9893	0.88	16.44	4.50	0	1
-9892	0.63	16.44	4.50	0	1	-9891	0.63	16.34	4.50	0	1	-9890	0.63	15.95	4.50	0	1
-9889	0.63	15.85	4.50	0	1	-9888	0.88	12.63	4.50	0	1	-9887	0.63	12.63	4.50	0	1
-9886	0.88	11.85	4.50	0	1	-9885	0.63	11.85	4.50	0	1	-9884	0.63	10.87	4.50	0	1
-9883	0.88	5.98	4.50	0	1	-9882	1.70	0.02	4.50	0	1	-9881	0.88	16.34	4.50	0	1
-9880	0.88	15.95	4.50	0	1	-9879	0.88	15.85	4.50	0	1	-9878	0.88	11.65	4.50	0	1
-9877	0.63	11.65	4.50	0	1	-9876	0.88	10.87	4.50	0	1	-9875	0.88	6.76	4.50	0	1
-9874	0.63	6.76	4.50	0	1	-9873	0.63	5.98	4.50	0	1	-9872	0.88	5.79	4.50	0	1
-9871	0.63	5.79	4.50	0	1	-9870	0.88	5.00	4.50	0	1	-9869	0.63	5.00	4.50	0	1
-9868	0.88	1.78	4.50	0	1	-9867	0.63	1.78	4.50	0	1	-9866	0.63	1.68	4.50	0	1
-9865	0.63	1.19	4.50	0	1	-9864	1.55	1.00	4.50	0	1	-9861	0.63	1.58	4.49	0	1
-9860	0.88	1.29	4.50	0	1	-9859	0.88	1.19	4.50	0	1	-9851	0.63	1.49	4.49	0	1
-9850	0.63	1.29	4.50	0	1	-9845	0.63	16.24	4.49	0	1	-9844	0.88	16.05	4.49	0	1
-9843	1.04	3.93	4.50	0	1	-9842	0.45	3.93	4.49	0	1	-9841	0.88	1.68	4.50	0	1
-9836	0.88	16.24	4.49	0	1	-9835	0.88	16.15	4.49	0	1	-9834	0.63	16.15	4.49	0	1
-9833	0.63	16.05	4.49	0	1	-9832	0.39	14.68	4.49	0	1	-9831	0.88	1.49	4.49	0	1
-9830	0.88	17.51	4.49	0	1	-9829	0.88	16.73	4.49	0	1	-9828	0.63	16.64	4.49	0	1
-9827	1.04	13.70	4.49	0	1	-9826	0.46	13.70	4.49	0	1	-9825	0.39	2.95	4.49	0	1
-9822	0.63	17.51	4.49	0	1	-9821	0.88	16.64	4.49	0	1	-9820	0.91	11.75	4.49	0	1
-9819	0.59	11.75	4.49	0	1	-9818	0.91	5.88	4.49	0	1	-9817	0.59	5.88	4.49	0	1
-9816	0.88	1.58	4.49	0	1	-9815	0.88	1.39	4.49	0	1	-9814	0.63	1.39	4.49	0	1
-9800	0.63	16.73	4.49	0	1	-9799	0.88	12.53	4.49	0	1	-9798	0.63	12.53	4.49	0	1
-9797	0.88	11.94	4.49	0	1	-9796	0.63	11.94	4.49	0	1	-9795	0.88	11.55	4.49	0	1
-9794	0.63	11.55	4.49	0	1	-9793	0.88	10.97	4.49	0	1	-9792	0.63	10.97	4.49	0	1
-9791	0.88	6.67	4.49	0	1	-9790	0.63	6.67	4.49	0	1	-9789	0.88	6.08	4.49	0	1
-9788	0.63	6.08	4.49	0	1	-9787	0.88	5.69	4.49	0	1	-9786	0.63	5.69	4.49	0	1
-9785	0.63	5.10	4.49	0	1	-9784	0.88	1.00	4.49	0	1	-9783	0.63	1.00	4.49	0	1
-9780	0.88	5.10	4.49	0	1	-9779	0.88	0.90	4.49	0	1	-9778	0.63	0.90	4.49	0	1
-9777	0.88	0.12	4.49	0	1	-9776	0.63	0.12	4.49	0	1	-9775	0.88	17.42	4.49	0	1
-9774	0.63	17.42	4.49	0	1	-9773	0.59	16.64	4.49	0	1	-9772	0.63	16.93	4.49	0	1
-9771	0.63	16.83	4.49	0	1	-9770	0.91	16.64	4.49	0	1	-9769	0.88	17.32	4.49	0	1
-9768	0.63	17.32	4.49	0	1	-9767	0.88	16.83	4.49	0	1	-9766	0.88	12.43	4.49	0	1
-9765	0.63	12.43	4.49	0	1	-9764	0.88	12.04	4.49	0	1	-9763	0.63	12.04	4.49	0	1
-9762	0.88	11.46	4.49	0	1	-9761	0.63	11.46	4.49	0	1	-9760	0.88	11.06	4.49	0	1
-9759	0.63	11.06	4.49	0	1	-9758	0.88	6.57	4.49	0	1	-9757	0.63	6.57	4.49	0	1
-9756	0.88	6.18	4.49	0	1	-9755	0.63	6.18	4.49	0	1	-9754	0.88	5.59	4.49	0	1
-9753	0.63	5.59	4.49	0	1	-9752	0.88	5.20	4.49	0	1	-9751	0.63	5.20	4.49	0	1
-9750	0.88	0.80	4.49	0	1	-9749	0.63	0.80	4.49	0	1	-9748	0.63	0.22	4.49	0	1

-9733	0.63	17.22	4.49	0	1	-9732	0.88	17.12	4.49	0	1	-9731	0.88	0.70	4.49	0	1
-9730	0.63	0.31	4.49	0	1	-9729	0.88	0.22	4.49	0	1	-9725	0.88	17.22	4.49	0	1
-9724	0.63	17.12	4.49	0	1	-9723	0.88	17.03	4.49	0	1	-9722	0.63	17.03	4.49	0	1
-9721	0.88	16.93	4.49	0	1	-9720	0.63	0.70	4.49	0	1	-9719	0.63	12.33	4.49	0	1
-9718	0.63	12.24	4.49	0	1	-9717	0.88	11.36	4.49	0	1	-9716	0.63	11.36	4.49	0	1
-9715	0.88	11.26	4.49	0	1	-9714	0.63	0.61	4.49	0	1	-9713	0.63	0.41	4.49	0	1
-9712	0.88	0.31	4.49	0	1	-9711	0.88	12.33	4.49	0	1	-9710	0.88	12.24	4.49	0	1
-9709	0.88	12.14	4.49	0	1	-9708	0.63	12.14	4.49	0	1	-9707	0.63	11.26	4.49	0	1
-9706	0.88	11.16	4.49	0	1	-9705	0.63	11.16	4.49	0	1	-9704	0.88	6.47	4.49	0	1
-9703	0.63	6.47	4.49	0	1	-9702	0.88	6.37	4.49	0	1	-9701	0.63	6.37	4.49	0	1
-9700	0.88	6.28	4.49	0	1	-9699	0.63	6.28	4.49	0	1	-9698	0.88	5.49	4.49	0	1
-9697	0.63	5.49	4.49	0	1	-9696	0.88	5.40	4.49	0	1	-9695	0.63	5.40	4.49	0	1
-9694	0.88	5.30	4.49	0	1	-9693	0.63	5.30	4.49	0	1	-9692	0.91	1.00	4.49	0	1
-9691	0.59	1.00	4.49	0	1	-9690	0.88	0.61	4.49	0	1	-9689	0.88	0.51	4.49	0	1
-9688	0.63	0.51	4.49	0	1	-9687	0.88	0.41	4.49	0	1	-9669	0.95	11.75	4.49	0	1
-9668	0.55	11.75	4.49	0	1	-9667	1.31	10.77	4.49	0	1	-9666	1.19	10.77	4.49	0	1
-9665	0.31	10.77	4.49	0	1	-9664	0.18	10.77	4.49	0	1	-9663	1.31	6.86	4.49	0	1
-9662	1.19	6.86	4.49	0	1	-9661	0.31	6.86	4.49	0	1	-9660	0.18	6.86	4.49	0	1
-9659	0.95	5.88	4.49	0	1	-9658	0.55	5.88	4.49	0	1	-9657	1.48	15.66	4.49	0	1
-9656	0.03	15.66	4.49	0	1	-9655	0.88	12.73	4.49	0	1	-9654	0.63	12.73	4.49	0	1
-9653	0.88	4.91	4.49	0	1	-9652	0.63	4.91	4.49	0	1	-9651	1.48	1.97	4.49	0	1
-9650	0.03	1.97	4.49	0	1	-9615	1.64	17.61	4.49	0	1	-9614	-0.14	17.61	4.49	0	1
-9613	1.64	0.02	4.49	0	1	-9612	-0.14	0.02	4.49	0	1	-9573	0.39	15.66	4.48	0	1
-9572	1.04	2.95	4.48	0	1	-9571	0.46	2.95	4.48	0	1	-9570	1.19	1.97	4.48	0	1
-9569	0.46	14.68	4.48	0	1	-9568	0.91	12.72	4.48	0	1	-9567	0.59	12.72	4.48	0	1
-9566	0.63	8.82	4.48	0	1	-9565	0.59	4.91	4.48	0	1	-9564	0.39	1.97	4.48	0	1
-9563	0.31	1.97	4.48	0	1	-9562	1.04	14.68	4.48	0	1	-9561	0.88	8.82	4.48	0	1
-9560	0.91	4.91	4.48	0	1	-9525	1.09	2.95	4.48	0	1	-9524	0.95	12.72	4.47	0	1
-9523	0.55	12.72	4.47	0	1	-9522	1.31	11.75	4.47	0	1	-9521	1.19	11.75	4.47	0	1
-9520	0.31	11.75	4.47	0	1	-9519	0.18	11.75	4.47	0	1	-9518	1.26	8.82	4.47	0	1
-9517	0.23	8.82	4.47	0	1	-9516	1.31	5.88	4.47	0	1	-9515	1.19	5.88	4.47	0	1
-9514	0.31	5.88	4.47	0	1	-9513	0.18	5.88	4.47	0	1	-9512	0.95	4.91	4.47	0	1
-9511	0.55	4.91	4.47	0	1	-9510	0.88	13.70	4.47	0	1	-9509	0.88	3.93	4.47	0	1
-9508	1.48	1.00	4.47	0	1	-9494	0.63	13.70	4.47	0	1	-9490	1.48	16.64	4.47	0	1
-9489	0.63	3.93	4.47	0	1	-9480	0.03	1.00	4.47	0	1	-9469	0.03	16.64	4.47	0	1
-9468	0.92	8.82	4.47	0	1	-9467	0.58	8.82	4.47	0	1	-9432	1.09	8.82	4.47	0	1
-9431	0.41	8.82	4.47	0	1	-9430	0.91	13.70	4.47	0	1	-9429	0.88	9.79	4.47	0	1
-9428	0.63	9.79	4.47	0	1	-9427	0.88	7.84	4.47	0	1	-9426	0.63	7.84	4.47	0	1
-9416	1.04	15.66	4.47	0	1	-9415	0.63	14.58	4.47	0	1	-9414	0.91	3.93	4.47	0	1
-9413	0.39	1.00	4.47	0	1	-9411	0.88	14.58	4.47	0	1	-9410	0.88	13.80	4.47	0	1
-9409	0.59	13.70	4.47	0	1	-9401	0.46	15.66	4.47	0	1	-9400	0.63	13.80	4.47	0	1
-9399	0.88	13.61	4.47	0	1	-9398	0.63	13.61	4.47	0	1	-9397	0.88	12.82	4.47	0	1
-9396	0.63	12.82	4.47	0	1	-9395	0.88	4.81	4.47	0	1	-9394	0.63	4.81	4.47	0	1
-9393	0.88	4.03	4.47	0	1	-9392	0.63	4.03	4.47	0	1	-9391	0.59	3.93	4.47	0	1
-9390	0.88	3.83	4.47	0	1	-9389	0.63	3.83	4.47	0	1	-9388	0.88	3.05	4.47	0	1
-9387	0.63	3.05	4.47	0	1	-9386	1.04	1.97	4.47	0	1	-9385	0.46	1.97	4.47	0	1
-9384	0.35	2.95	4.46	0	1	-9366	1.11	16.64	4.46	0	1	-9365	0.39	16.64	4.46	0	1
-9347	1.55	17.61	4.46	0	1	-9346	-0.06	17.61	4.46	0	1	-9345	0.88	14.48	4.46	0	1
-9344	0.63	14.48	4.46	0	1	-9343	0.88	13.90	4.46	0	1	-9342	0.63	13.90	4.46	0	1
-9341	0.88	13.51	4.46	0	1	-9340	0.63	13.51	4.46	0	1	-9339	0.88	12.92	4.46	0	1
-9338	0.63	12.92	4.46	0	1	-9337	0.88	4.71	4.46	0	1	-9336	0.63	4.71	4.46	0	1
-9335	0.88	4.12	4.46	0	1	-9334	0.63	4.12	4.46	0	1	-9333	0.88	3.73	4.46	0	1
-9332	0.63	3.73	4.46	0	1	-9331	0.88	3.15	4.46	0	1	-9330	0.63	3.15	4.46	0	1
-9327	0.95	13.70	4.46	0	1	-9326	0.18	12.73	4.46	0	1	-9325	1.19	12.72	4.46	0	1
-9324	1.26	9.79	4.46	0	1	-9323	1.26	7.84	4.46	0	1	-9322	1.31	4.91	4.46	0	1
-9321	1.09	1.97	4.46	0	1	-9320	1.55	0.02	4.46	0	1	-9319	-0.06	0.02	4.46	0	1
-9318	0.88	14.39	4.46	0	1	-9317	0.63	14.39	4.46	0	1	-9316	0.88	14.00	4.46	0	1
-9315	0.63	14.00	4.46	0	1	-9314	0.55	13.70	4.46	0	1	-9313	0.88	13.41	4.46	0	1
-9312	0.63	13.41	4.46	0	1	-9311	0.88	13.02	4.46	0	1	-9310	0.63	13.02	4.46	0	1
-9309	1.31	12.73	4.46	0	1	-9308	0.31	12.72	4.46	0	1	-9307	0.23	9.79	4.46	0	1
-9306	0.23	7.84	4.46	0	1	-9305	1.19	4.91	4.46	0	1	-9304	0.31	4.91	4.46	0	1
-9303	0.18	4.91	4.46	0	1	-9302	0.88	4.61	4.46	0	1	-9301	0.63	4.61	4.46	0	1
-9300	0.88	4.22	4.46	0	1	-9299	0.63	4.22	4.46	0	1	-9298	0.95	3.93	4.46	0	1
-9297	0.55	3.93	4.46	0	1	-9296	0.88	3.64	4.46	0	1	-9295	0.63	3.64	4.46	0	1
-9294	0.88	3.25	4.46	0	1	-9293	0.63	3.25	4.46	0	1	-9275	0.88	17.61	4.46	0	1
-9274	0.63	17.61	4.46	0	1	-9273	0.88	14.68	4.46	0	1	-9272	0.63	14.68	4.46	0	1
-9271	0.88	14.29	4.46	0	1	-9270	0.63	14.29	4.46	0	1	-9269	0.88	14.19	4.46	0	1
-9268	0.63	14.19	4.46	0	1	-9267	0.88	14.09	4.46	0	1	-9266	0.63	14.09	4.46	0	1
-9265	0.88	13.31	4.46	0	1	-9264	0.63	13.31	4.46	0	1	-9263	0.88	13.21	4.46	0	1
-9262	0.63	13.21	4.46	0	1	-9261	0.88	13.12	4.46	0	1	-9260	0.63	13.12	4.46	0	1
-9259	0.88	4.52	4.46	0	1	-9258	0.63	4.52	4.46	0	1	-9257	0.88	4.42	4.46	0	1
-9256	0.63	4.42	4.46	0	1	-9255	0.88	4.32	4.46	0	1	-9254	0.63	4.32	4.46	0	1
-9253	0.88	3.54	4.46	0	1	-9252	0.63	3.54	4.46	0	1	-9251	0.88	3.44	4.46	0	1
-9250	0.63	3.44	4.46	0	1	-9249	0.88	3.34	4.46	0	1	-9248	0.63	3.34	4.46	0	1
-9247	0.88	2.95	4.46	0	1	-9246	0.63	2.95	4.46	0	1	-9245	0.88	0.02	4.46	0	1
-9244	0.63	0.02	4.46	0	1	-9226	0.93	17.61	4.46	0	1	-9225	0.57	17.61	4.46	0	1
-9224	0.92	9.79	4.46	0	1	-9223	0.58	9.79	4.46	0	1	-9222	0.92	7.84	4.46	0	1
-9221	0.58	7.84	4.46	0	1	-9220	0.93	0.02	4.46	0	1	-9219	0.57	0.02	4.46	0	1
-9182	0.99	17.61	4.46	0	1	-9181	0.51	17.61	4.46	0	1	-9180	0.99	0.02	4.46	0	1

-9179	0.91	14.68	4.45	0	1	-9178	0.59	14.68	4.45	0	1	-9177	1.09	9.79	4.45	0	1
-9176	0.41	9.79	4.45	0	1	-9175	0.63	8.91	4.45	0	1	-9174	0.41	7.84	4.45	0	1
-9173	0.51	0.02	4.46	0	1	-9172	0.88	9.70	4.45	0	1	-9171	0.63	9.70	4.45	0	1
-9170	0.88	8.91	4.45	0	1	-9169	0.88	8.72	4.45	0	1	-9168	0.63	7.94	4.45	0	1
-9167	1.09	7.84	4.45	0	1	-9166	0.88	10.77	4.45	0	1	-9165	0.63	10.77	4.45	0	1
-9164	0.63	8.72	4.45	0	1	-9163	0.88	7.94	4.45	0	1	-9162	0.88	6.86	4.45	0	1
-9161	0.63	6.86	4.45	0	1	-9160	0.46	1.00	4.45	0	1	-9159	1.04	1.00	4.45	0	1
-9124	0.98	2.95	4.45	0	1	-9123	0.52	2.95	4.45	0	1	-9122	1.05	16.64	4.45	0	1
-9121	1.31	13.70	4.45	0	1	-9118	0.46	16.64	4.45	0	1	-9117	0.95	14.68	4.45	0	1
-9116	0.55	14.68	4.45	0	1	-9115	1.19	13.70	4.45	0	1	-9114	0.31	13.70	4.45	0	1
-9113	0.18	13.70	4.45	0	1	-9112	1.26	10.77	4.45	0	1	-9111	0.23	10.77	4.45	0	1
-9110	0.63	9.60	4.45	0	1	-9109	0.88	9.01	4.45	0	1	-9108	1.26	6.86	4.45	0	1
-9107	1.31	3.93	4.45	0	1	-9106	1.19	3.93	4.45	0	1	-9105	0.18	3.93	4.45	0	1
-9103	0.63	9.01	4.45	0	1	-9102	0.88	8.03	4.45	0	1	-9101	0.23	6.86	4.45	0	1
-9084	0.88	15.66	4.45	0	1	-9083	0.63	15.66	4.45	0	1	-9082	0.88	9.60	4.45	0	1
-9081	0.88	8.62	4.45	0	1	-9080	0.63	8.62	4.45	0	1	-9079	0.63	8.03	4.45	0	1
-9078	0.31	3.93	4.45	0	1	-9077	1.09	1.00	4.45	0	1	-9061	0.92	16.64	4.45	0	1
-9060	0.58	16.64	4.45	0	1	-9059	0.88	15.56	4.45	0	1	-9058	0.63	15.56	4.45	0	1
-9057	0.88	14.78	4.45	0	1	-9056	0.63	14.78	4.45	0	1	-9055	0.88	2.85	4.45	0	1
-9054	0.63	2.85	4.45	0	1	-9053	0.88	2.07	4.45	0	1	-9052	0.63	2.07	4.45	0	1
-9051	0.88	1.97	4.45	0	1	-9050	0.63	1.97	4.45	0	1	-9049	0.35	1.97	4.45	0	1
-9048	0.92	10.77	4.44	0	1	-9047	0.58	10.77	4.44	0	1	-9046	0.88	9.50	4.45	0	1
-9045	0.63	9.50	4.45	0	1	-9044	0.88	9.11	4.45	0	1	-9043	0.63	9.11	4.45	0	1
-9042	0.88	8.52	4.45	0	1	-9041	0.63	8.52	4.45	0	1	-9040	0.88	8.13	4.45	0	1
-9039	0.63	8.13	4.45	0	1	-9038	0.63	9.89	4.44	0	1	-9037	0.92	6.86	4.44	0	1
-9036	0.58	6.86	4.44	0	1	-9018	0.88	15.46	4.44	0	1	-9017	0.63	15.46	4.44	0	1
-9016	0.88	14.88	4.44	0	1	-9015	0.63	14.88	4.44	0	1	-9014	0.88	10.67	4.44	0	1
-9013	0.63	10.67	4.44	0	1	-9012	0.88	9.89	4.44	0	1	-9011	0.88	9.40	4.44	0	1
-9010	0.63	9.40	4.44	0	1	-9009	0.88	9.30	4.44	0	1	-9008	0.63	9.30	4.44	0	1
-9007	0.88	9.21	4.44	0	1	-9006	0.63	9.21	4.44	0	1	-9005	0.88	8.43	4.44	0	1
-9004	0.63	8.43	4.44	0	1	-9003	0.88	8.33	4.44	0	1	-9002	0.63	8.33	4.44	0	1
-9001	0.88	8.23	4.44	0	1	-9000	0.63	8.23	4.44	0	1	-8999	0.88	7.74	4.44	0	1
-8998	0.63	7.74	4.44	0	1	-8997	0.88	6.96	4.44	0	1	-8996	0.63	6.96	4.44	0	1
-8995	0.88	2.76	4.44	0	1	-8994	0.63	2.76	4.44	0	1	-8993	0.88	2.17	4.44	0	1
-8992	0.63	2.17	4.44	0	1	-8974	0.91	15.66	4.44	0	1	-8973	0.88	15.36	4.44	0	1
-8972	0.63	15.36	4.44	0	1	-8971	0.88	14.97	4.44	0	1	-8970	0.63	14.97	4.44	0	1
-8969	1.09	10.77	4.44	0	1	-8968	1.09	6.86	4.44	0	1	-8967	0.41	6.86	4.44	0	1
-8966	0.63	2.66	4.44	0	1	-8965	0.63	2.27	4.44	0	1	-8958	1.48	17.61	4.44	0	1
-8957	0.03	17.61	4.44	0	1	-8956	0.59	15.66	4.44	0	1	-8955	0.41	10.77	4.44	0	1
-8954	0.88	2.66	4.44	0	1	-8953	0.88	2.27	4.44	0	1	-8941	0.88	15.27	4.44	0	1
-8940	0.63	15.27	4.44	0	1	-8939	0.63	15.17	4.44	0	1	-8938	0.88	15.07	4.44	0	1
-8937	0.63	15.07	4.44	0	1	-8936	0.88	11.75	4.44	0	1	-8935	0.63	11.75	4.44	0	1
-8934	0.88	5.88	4.44	0	1	-8933	0.63	5.88	4.44	0	1	-8932	0.88	2.56	4.44	0	1
-8931	1.48	0.02	4.44	0	1	-8927	0.88	15.17	4.44	0	1	-8926	0.63	2.56	4.44	0	1
-8925	0.88	2.46	4.44	0	1	-8924	0.63	2.46	4.44	0	1	-8923	0.88	2.37	4.44	0	1
-8922	0.63	2.37	4.44	0	1	-8921	0.03	0.02	4.44	0	1	-8900	0.88	10.58	4.44	0	1
-8899	0.63	10.58	4.44	0	1	-8898	0.88	9.99	4.44	0	1	-8897	0.63	9.99	4.44	0	1
-8896	0.88	7.64	4.44	0	1	-8895	0.63	7.64	4.44	0	1	-8894	0.88	7.06	4.44	0	1
-8893	0.63	7.06	4.44	0	1	-8892	0.88	16.54	4.44	0	1	-8891	0.63	16.54	4.44	0	1
-8890	0.88	15.76	4.44	0	1	-8889	0.63	15.76	4.44	0	1	-8888	0.98	1.97	4.44	0	1
-8887	0.52	1.97	4.44	0	1	-8886	0.88	1.88	4.44	0	1	-8885	0.63	1.88	4.44	0	1
-8884	0.88	1.10	4.44	0	1	-8883	0.63	1.10	4.44	0	1	-8865	0.95	15.66	4.43	0	1
-8864	0.55	15.66	4.43	0	1	-8863	1.31	14.68	4.43	0	1	-8862	1.19	14.68	4.43	0	1
-8861	0.31	14.68	4.43	0	1	-8860	0.18	14.68	4.43	0	1	-8859	1.26	11.75	4.43	0	1
-8858	0.23	11.75	4.43	0	1	-8857	0.88	10.48	4.44	0	1	-8856	0.63	10.48	4.44	0	1
-8855	0.88	10.09	4.44	0	1	-8854	0.63	10.09	4.44	0	1	-8853	0.88	7.55	4.44	0	1
-8852	0.63	7.55	4.44	0	1	-8851	0.88	7.15	4.44	0	1	-8850	0.63	7.15	4.44	0	1
-8849	1.26	5.88	4.43	0	1	-8848	0.23	5.88	4.43	0	1	-8847	1.31	2.95	4.43	0	1
-8846	1.19	2.95	4.43	0	1	-8845	0.31	2.95	4.43	0	1	-8844	0.18	2.95	4.43	0	1
-8836	0.88	16.64	4.43	0	1	-8835	0.63	16.44	4.43	0	1	-8834	0.88	15.85	4.43	0	1
-8833	0.63	15.85	4.43	0	1	-8832	0.88	12.63	4.43	0	1	-8831	0.63	12.63	4.43	0	1
-8830	0.88	11.85	4.43	0	1	-8829	0.63	11.85	4.43	0	1	-8828	0.63	5.00	4.43	0	1
-8822	0.63	16.64	4.43	0	1	-8821	0.88	16.44	4.43	0	1	-8820	0.88	11.65	4.43	0	1
-8819	0.63	11.65	4.43	0	1	-8818	0.63	10.87	4.43	0	1	-8817	0.88	10.38	4.43	0	1
-8816	0.88	10.28	4.43	0	1	-8815	0.88	10.18	4.43	0	1	-8814	0.88	7.45	4.43	0	1
-8813	0.88	6.76	4.43	0	1	-8812	0.88	5.98	4.43	0	1	-8811	0.63	5.98	4.43	0	1
-8810	0.88	5.00	4.43	0	1	-8804	0.88	10.87	4.43	0	1	-8800	0.63	10.38	4.43	0	1
-8799	0.63	10.28	4.43	0	1	-8798	0.63	10.18	4.43	0	1	-8797	0.63	7.45	4.43	0	1
-8796	0.88	7.35	4.43	0	1	-8795	0.63	7.35	4.43	0	1	-8794	0.88	7.25	4.43	0	1
-8793	0.63	7.25	4.43	0	1	-8792	0.63	6.76	4.43	0	1	-8791	0.88	5.79	4.43	0	1
-8790	0.63	5.79	4.43	0	1	-8789	1.07	2.95	4.43	0	1	-8788	0.43	2.95	4.43	0	1
-8786	0.88	1.78	4.43	0	1	-8785	0.63	1.78	4.43	0	1	-8784	0.88	1.19	4.43	0	1
-8783	0.63	1.19	4.43	0	1	-8782	0.88	1.00	4.43	0	1	-8781	0.63	1.00	4.43	0	1
-8765	0.88	17.51	4.43	0	1	-8764	0.63	17.51	4.43	0	1	-8763	0.88	16.73	4.43	0	1
-8762	0.63	16.73	4.43	0	1	-8761	0.63	16.34	4.43	0	1	-8760	0.92	11.75	4.43	0	1
-8759	0.88	1.29	4.43	0	1	-8758	0.63	0.90	4.43	0	1	-8757	0.88	0.12	4.43	0	1
-8755	0.88	16.34	4.43	0	1	-8754	0.88	15.95	4.43	0	1	-8753	0.58	11.75	4.43	0	1
-8752	0.92	5.88	4.43	0	1	-8751	0.58	5.88	4.43	0	1	-8750	0.63	1.68	4.43	0	1
-8749	0.63	1.29	4.43	0	1	-8748	0.88	0.90	4.43	0	1	-8747	0.63	0.12	4.43	0	1



-8744	0.63	15.95	4.43	0	1	-8743	0.88	1.68	4.43	0	1	-8742	0.88	16.24	4.43	0	1
-8741	0.63	16.24	4.43	0	1	-8740	0.88	16.15	4.43	0	1	-8739	0.63	16.15	4.43	0	1
-8738	0.88	16.05	4.43	0	1	-8737	0.63	16.05	4.43	0	1	-8736	0.88	1.58	4.43	0	1
-8735	0.63	1.58	4.43	0	1	-8734	0.88	1.49	4.43	0	1	-8733	0.63	1.49	4.43	0	1
-8732	0.88	1.39	4.43	0	1	-8731	0.63	1.39	4.43	0	1	-8694	1.19	17.61	4.43	0	1
-8693	0.31	17.61	4.43	0	1	-8692	0.88	17.42	4.43	0	1	-8691	0.63	17.42	4.43	0	1
-8690	0.88	16.83	4.43	0	1	-8689	0.63	16.83	4.43	0	1	-8688	0.88	12.53	4.43	0	1
-8687	0.63	12.53	4.43	0	1	-8686	0.88	11.94	4.43	0	1	-8685	0.88	0.80	4.43	0	1
-8684	0.88	17.32	4.43	0	1	-8683	0.63	12.73	4.43	0	1	-8682	0.63	11.94	4.43	0	1
-8681	1.09	11.75	4.43	0	1	-8680	0.41	11.75	4.43	0	1	-8679	0.88	11.55	4.43	0	1
-8678	0.63	11.55	4.43	0	1	-8677	0.88	10.97	4.43	0	1	-8676	0.63	10.97	4.43	0	1
-8675	0.88	6.67	4.43	0	1	-8674	0.63	6.67	4.43	0	1	-8673	0.88	6.08	4.43	0	1
-8672	0.63	6.08	4.43	0	1	-8671	0.41	5.88	4.43	0	1	-8670	0.88	5.69	4.43	0	1
-8669	0.63	5.10	4.43	0	1	-8668	0.91	1.00	4.43	0	1	-8667	0.63	0.80	4.43	0	1
-8666	0.88	0.22	4.43	0	1	-8665	0.63	0.22	4.43	0	1	-8664	0.63	17.32	4.43	0	1
-8663	0.88	12.73	4.43	0	1	-8662	1.09	5.88	4.43	0	1	-8661	0.63	5.69	4.43	0	1
-8660	0.88	5.10	4.43	0	1	-8659	1.19	0.02	4.43	0	1	-8658	0.88	16.93	4.43	0	1
-8657	0.63	16.93	4.43	0	1	-8656	0.88	4.91	4.43	0	1	-8655	0.63	4.91	4.43	0	1
-8654	0.59	1.00	4.43	0	1	-8653	0.31	0.02	4.43	0	1	-8652	0.88	17.12	4.42	0	1
-8651	0.63	12.43	4.43	0	1	-8650	0.63	12.04	4.43	0	1	-8649	0.63	11.46	4.43	0	1
-8648	0.88	11.06	4.43	0	1	-8647	0.63	11.06	4.43	0	1	-8646	0.88	6.57	4.43	0	1
-8645	0.63	6.57	4.43	0	1	-8644	0.63	6.18	4.43	0	1	-8643	0.88	5.59	4.43	0	1
-8642	0.63	5.59	4.43	0	1	-8641	0.88	5.20	4.43	0	1	-8640	0.63	5.20	4.43	0	1
-8639	0.88	0.70	4.43	0	1	-8638	0.63	0.70	4.43	0	1	-8637	0.88	0.31	4.43	0	1
-8636	0.63	0.31	4.43	0	1	-8626	0.63	17.22	4.42	0	1	-8625	0.88	12.43	4.43	0	1
-8624	0.88	12.04	4.43	0	1	-8623	0.88	6.18	4.43	0	1	-8599	1.05	17.61	4.42	0	1
-8598	0.45	17.61	4.42	0	1	-8597	0.88	17.22	4.42	0	1	-8596	0.63	17.12	4.42	0	1
-8595	0.88	17.03	4.42	0	1	-8594	0.88	11.46	4.43	0	1	-8591	0.63	17.03	4.42	0	1
-8590	0.88	0.61	4.42	0	1	-8589	0.63	0.61	4.42	0	1	-8588	0.88	0.51	4.42	0	1
-8587	0.63	0.51	4.42	0	1	-8586	0.88	0.41	4.42	0	1	-8585	0.63	0.41	4.42	0	1
-8584	1.05	0.02	4.42	0	1	-8583	0.45	0.02	4.42	0	1	-8582	0.88	12.33	4.42	0	1
-8581	0.63	12.33	4.42	0	1	-8580	0.88	12.24	4.42	0	1	-8579	0.63	12.24	4.42	0	1
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-8575	0.63	11.36	4.42	0	1	-8574	0.88	11.26	4.42	0	1	-8573	0.63	11.26	4.42	0	1
-8572	0.88	11.16	4.42	0	1	-8571	0.63	11.16	4.42	0	1	-8570	0.88	6.47	4.42	0	1
-8569	0.63	6.47	4.42	0	1	-8568	0.88	6.37	4.42	0	1	-8567	0.63	6.37	4.42	0	1
-8566	0.88	6.28	4.42	0	1	-8565	0.63	6.28	4.42	0	1	-8564	0.88	5.49	4.42	0	1
-8563	0.63	5.49	4.42	0	1	-8562	0.88	5.40	4.42	0	1	-8561	0.63	5.40	4.42	0	1
-8560	0.88	5.30	4.42	0	1	-8559	0.63	5.30	4.42	0	1	-8558	1.31	15.66	4.42	0	1
-8557	1.19	15.66	4.42	0	1	-8556	0.31	15.66	4.42	0	1	-8555	0.18	15.66	4.42	0	1
-8554	1.26	12.73	4.42	0	1	-8553	0.23	12.73	4.42	0	1	-8552	1.26	4.91	4.42	0	1
-8551	0.23	4.91	4.42	0	1	-8550	1.31	1.97	4.42	0	1	-8549	0.18	1.97	4.42	0	1
-8548	0.95	1.00	4.42	0	1	-8547	0.55	1.00	4.42	0	1	-8512	0.88	8.82	4.42	0	1
-8511	0.63	8.82	4.42	0	1	-8510	1.06	1.97	4.42	0	1	-8509	0.44	1.97	4.42	0	1
-8508	0.92	12.72	4.42	0	1	-8507	0.58	12.72	4.42	0	1	-8506	0.92	4.91	4.42	0	1
-8505	0.58	4.91	4.42	0	1	-8466	0.98	16.64	4.41	0	1	-8465	0.52	16.64	4.41	0	1
-8464	1.09	12.73	4.41	0	1	-8463	1.22	8.82	4.42	0	1	-8462	0.28	8.82	4.42	0	1
-8444	0.88	13.70	4.41	0	1	-8443	0.63	13.70	4.41	0	1	-8442	0.41	12.73	4.41	0	1
-8441	1.09	4.91	4.41	0	1	-8440	0.41	4.91	4.41	0	1	-8439	0.88	3.93	4.41	0	1
-8438	0.63	3.93	4.41	0	1	-8437	1.19	1.97	4.41	0	1	-8436	0.31	1.97	4.41	0	1
-8416	1.14	2.95	4.41	0	1	-8398	1.31	16.64	4.41	0	1	-8397	1.19	16.64	4.41	0	1
-8396	0.31	16.64	4.41	0	1	-8395	0.18	16.64	4.41	0	1	-8394	1.26	13.70	4.41	0	1
-8393	0.23	13.70	4.41	0	1	-8392	1.26	3.93	4.41	0	1	-8391	0.23	3.93	4.41	0	1
-8390	1.31	1.00	4.41	0	1	-8389	1.19	1.00	4.41	0	1	-8388	0.31	1.00	4.41	0	1
-8387	0.18	1.00	4.41	0	1	-8369	0.88	9.79	4.41	0	1	-8368	0.63	9.79	4.41	0	1
-8367	0.88	7.84	4.41	0	1	-8366	0.63	7.84	4.41	0	1	-8365	0.44	1.00	4.41	0	1
-8347	0.88	14.58	4.40	0	1	-8346	0.63	14.58	4.40	0	1	-8345	0.88	13.80	4.40	0	1
-8344	0.63	13.80	4.40	0	1	-8343	0.92	13.70	4.40	0	1	-8342	0.58	13.70	4.40	0	1
-8341	0.88	13.61	4.40	0	1	-8340	0.63	13.61	4.40	0	1	-8339	0.88	12.82	4.40	0	1
-8338	0.63	12.82	4.40	0	1	-8337	0.88	4.81	4.40	0	1	-8336	0.63	4.81	4.40	0	1
-8335	0.88	4.03	4.40	0	1	-8334	0.63	4.03	4.40	0	1	-8333	0.92	3.93	4.40	0	1
-8332	0.58	3.93	4.40	0	1	-8331	0.88	3.83	4.40	0	1	-8330	0.63	3.83	4.40	0	1
-8329	0.88	3.05	4.40	0	1	-8328	0.63	3.05	4.40	0	1	-8291	1.22	9.79	4.40	0	1
-8290	0.28	9.79	4.40	0	1	-8289	1.22	7.84	4.40	0	1	-8288	0.28	7.84	4.40	0	1
-8287	0.88	17.61	4.40	0	1	-8286	0.63	17.61	4.40	0	1	-8285	0.88	14.68	4.40	0	1
-8284	0.63	14.68	4.40	0	1	-8283	1.09	13.70	4.40	0	1	-8282	0.41	13.70	4.40	0	1
-8281	0.88	9.70	4.40	0	1	-8280	0.63	9.70	4.40	0	1	-8279	0.88	9.60	4.40	0	1
-8278	0.63	9.60	4.40	0	1	-8277	0.88	9.50	4.40	0	1	-8276	0.63	9.50	4.40	0	1
-8275	0.88	9.40	4.40	0	1	-8274	0.63	9.40	4.40	0	1	-8273	0.88	9.30	4.40	0	1
-8272	0.63	9.30	4.40	0	1	-8271	0.88	9.21	4.40	0	1	-8270	0.63	9.21	4.40	0	1
-8269	0.88	9.11	4.40	0	1	-8268	0.63	9.11	4.40	0	1	-8267	0.88	9.01	4.40	0	1
-8266	0.63	9.01	4.40	0	1	-8265	0.88	8.91	4.40	0	1	-8264	0.63	8.91	4.40	0	1
-8263	0.97	8.82	4.40	0	1	-8262	0.53	8.82	4.40	0	1	-8261	0.88	8.72	4.40	0	1
-8260	0.63	8.72	4.40	0	1	-8259	0.88	8.62	4.40	0	1	-8258	0.63	8.62	4.40	0	1
-8257	0.88	8.52	4.40	0	1	-8256	0.63	8.52	4.40	0	1	-8255	0.88	8.43	4.40	0	1
-8254	0.63	8.43	4.40	0	1	-8253	0.88	8.33	4.40	0	1	-8252	0.63	8.33	4.40	0	1
-8251	0.88	8.23	4.40	0	1	-8250	0.63	8.23	4.40	0	1	-8249	0.88	8.13	4.40	0	1
-8248	0.63	8.13	4.40	0	1	-8247	0.88	8.03	4.40	0	1	-8246	0.63	8.03	4.40	0	1
-8245	0.88	7.94	4.40	0	1	-8244	0.63	7.94	4.40	0	1	-8243	1.09	3.93	4.40	0	1

-8242	0.41	3.93	4.40	0	1	-8241	0.88	2.95	4.40	0	1	-8240	0.63	2.95	4.40	0	1
-8239	0.88	0.02	4.40	0	1	-8238	0.63	0.02	4.40	0	1	-8203	0.88	14.48	4.40	0	1
-8202	0.63	14.48	4.40	0	1	-8201	0.88	13.90	4.40	0	1	-8200	0.63	13.90	4.40	0	1
-8199	0.88	13.51	4.40	0	1	-8198	0.63	13.51	4.40	0	1	-8197	0.88	12.92	4.40	0	1
-8196	0.63	12.92	4.40	0	1	-8195	0.88	4.71	4.40	0	1	-8194	0.63	4.71	4.40	0	1
-8193	0.88	4.12	4.40	0	1	-8192	0.63	4.12	4.40	0	1	-8191	0.88	3.73	4.40	0	1
-8190	0.63	3.73	4.40	0	1	-8189	0.88	3.15	4.40	0	1	-8188	0.63	3.15	4.40	0	1
-8187	0.93	17.61	4.39	0	1	-8186	0.57	17.61	4.39	0	1	-8185	1.26	14.68	4.39	0	1
-8184	0.23	14.68	4.39	0	1	-8183	0.88	14.39	4.40	0	1	-8182	0.63	14.39	4.40	0	1
-8181	0.88	14.00	4.40	0	1	-8180	0.63	14.00	4.40	0	1	-8179	0.88	13.41	4.40	0	1
-8178	0.63	13.41	4.40	0	1	-8177	0.88	13.02	4.40	0	1	-8176	0.63	13.02	4.40	0	1
-8175	0.88	4.61	4.40	0	1	-8174	0.63	4.61	4.40	0	1	-8173	0.88	4.22	4.40	0	1
-8172	0.63	4.22	4.40	0	1	-8171	0.88	3.64	4.40	0	1	-8170	0.63	3.64	4.40	0	1
-8169	0.88	3.25	4.40	0	1	-8168	0.63	3.25	4.40	0	1	-8167	1.26	2.95	4.39	0	1
-8166	0.23	2.95	4.39	0	1	-8165	0.93	0.02	4.39	0	1	-8164	0.57	0.02	4.39	0	1
-8125	0.88	14.29	4.39	0	1	-8124	0.63	14.29	4.39	0	1	-8123	0.88	14.19	4.39	0	1
-8122	0.63	14.19	4.39	0	1	-8121	0.88	14.09	4.39	0	1	-8120	0.63	14.09	4.39	0	1
-8119	0.88	13.31	4.39	0	1	-8118	0.63	13.31	4.39	0	1	-8117	0.88	13.21	4.39	0	1
-8116	0.63	13.21	4.39	0	1	-8115	0.88	13.12	4.39	0	1	-8114	0.63	13.12	4.39	0	1
-8113	0.88	10.77	4.39	0	1	-8112	0.63	10.77	4.39	0	1	-8111	0.88	6.86	4.39	0	1
-8110	0.63	6.86	4.39	0	1	-8109	0.88	4.52	4.39	0	1	-8108	0.63	4.52	4.39	0	1
-8107	0.88	4.42	4.39	0	1	-8106	0.63	4.42	4.39	0	1	-8105	0.88	4.32	4.39	0	1
-8104	0.63	4.32	4.39	0	1	-8103	0.88	3.54	4.39	0	1	-8102	0.63	3.54	4.39	0	1
-8101	0.88	3.44	4.39	0	1	-8100	0.63	3.44	4.39	0	1	-8099	0.88	3.34	4.39	0	1
-8098	0.63	3.34	4.39	0	1	-8097	0.36	1.97	4.39	0	1	-8096	0.92	14.68	4.39	0	1
-8095	0.58	14.68	4.39	0	1	-8077	0.98	17.61	4.39	0	1	-8076	0.52	17.61	4.39	0	1
-8075	0.88	10.67	4.39	0	1	-8074	0.63	10.67	4.39	0	1	-8073	0.88	10.58	4.39	0	1
-8072	0.63	10.58	4.39	0	1	-8071	0.88	10.48	4.39	0	1	-8070	0.63	10.48	4.39	0	1
-8069	0.88	10.38	4.39	0	1	-8068	0.63	10.38	4.39	0	1	-8067	0.88	10.28	4.39	0	1
-8066	0.63	10.28	4.39	0	1	-8065	0.88	10.18	4.39	0	1	-8064	0.63	10.18	4.39	0	1
-8063	0.88	10.09	4.39	0	1	-8062	0.63	10.09	4.39	0	1	-8061	0.88	9.99	4.39	0	1
-8060	0.63	9.99	4.39	0	1	-8059	0.88	9.89	4.39	0	1	-8058	0.63	9.89	4.39	0	1
-8057	0.88	7.74	4.39	0	1	-8056	0.63	7.74	4.39	0	1	-8055	0.88	7.64	4.39	0	1
-8054	0.63	7.64	4.39	0	1	-8053	0.88	7.55	4.39	0	1	-8052	0.63	7.55	4.39	0	1
-8051	0.88	7.45	4.39	0	1	-8050	0.63	7.45	4.39	0	1	-8049	0.88	7.35	4.39	0	1
-8048	0.63	7.35	4.39	0	1	-8047	0.88	7.25	4.39	0	1	-8046	0.63	7.25	4.39	0	1
-8045	0.88	7.15	4.39	0	1	-8044	0.63	7.15	4.39	0	1	-8043	0.88	7.06	4.39	0	1
-8042	0.63	7.06	4.39	0	1	-8041	0.88	6.96	4.39	0	1	-8040	0.63	6.96	4.39	0	1
-8039	0.98	0.02	4.39	0	1	-8038	0.52	0.02	4.39	0	1	-8020	1.22	10.77	4.39	0	1
-8019	0.28	10.77	4.39	0	1	-8018	1.22	6.86	4.39	0	1	-8017	0.28	6.86	4.39	0	1
-7999	0.88	15.66	4.39	0	1	-7998	0.63	15.66	4.39	0	1	-7997	1.09	14.68	4.39	0	1
-7996	0.41	14.68	4.39	0	1	-7995	0.97	9.79	4.39	0	1	-7994	0.53	9.79	4.39	0	1
-7993	0.97	7.84	4.39	0	1	-7992	0.53	7.84	4.39	0	1	-7991	1.09	2.95	4.39	0	1
-7990	0.41	2.95	4.39	0	1	-7989	0.88	1.97	4.39	0	1	-7988	0.63	1.97	4.39	0	1
-7987	0.98	2.95	4.38	0	1	-7986	0.52	2.95	4.38	0	1	-7966	0.88	15.56	4.38	0	1
-7965	0.63	15.56	4.38	0	1	-7964	0.88	14.78	4.38	0	1	-7963	0.63	14.78	4.38	0	1
-7962	0.88	2.85	4.38	0	1	-7961	0.63	2.85	4.38	0	1	-7960	0.88	2.07	4.38	0	1
-7959	0.63	2.07	4.38	0	1	-7941	1.26	15.66	4.38	0	1	-7940	0.23	15.66	4.38	0	1
-7939	1.26	1.97	4.38	0	1	-7938	0.23	1.97	4.38	0	1	-7920	0.88	12.63	4.38	0	1
-7919	0.63	12.63	4.38	0	1	-7918	0.88	12.53	4.38	0	1	-7917	0.63	12.53	4.38	0	1
-7916	0.88	12.43	4.38	0	1	-7915	0.63	12.43	4.38	0	1	-7914	0.88	12.33	4.38	0	1
-7913	0.63	12.33	4.38	0	1	-7912	0.88	12.24	4.38	0	1	-7911	0.63	12.24	4.38	0	1
-7910	0.88	12.14	4.38	0	1	-7909	0.63	12.14	4.38	0	1	-7908	0.88	12.04	4.38	0	1
-7907	0.63	12.04	4.38	0	1	-7906	0.88	11.94	4.38	0	1	-7905	0.63	11.94	4.38	0	1
-7904	0.88	11.85	4.38	0	1	-7903	0.63	11.85	4.38	0	1	-7902	0.88	11.75	4.38	0	1
-7901	0.63	11.75	4.38	0	1	-7900	0.88	11.65	4.38	0	1	-7899	0.63	11.65	4.38	0	1
-7898	0.88	11.55	4.38	0	1	-7897	0.63	11.55	4.38	0	1	-7896	0.88	11.46	4.38	0	1
-7895	0.63	11.46	4.38	0	1	-7894	0.88	11.36	4.38	0	1	-7893	0.63	11.36	4.38	0	1
-7892	0.88	11.26	4.38	0	1	-7891	0.63	11.26	4.38	0	1	-7890	0.88	11.16	4.38	0	1
-7889	0.63	11.16	4.38	0	1	-7888	0.88	11.06	4.38	0	1	-7887	0.63	11.06	4.38	0	1
-7886	0.88	10.97	4.38	0	1	-7885	0.63	10.97	4.38	0	1	-7884	0.88	10.87	4.38	0	1
-7883	0.63	10.87	4.38	0	1	-7882	0.88	6.76	4.38	0	1	-7881	0.63	6.76	4.38	0	1
-7880	0.88	6.67	4.38	0	1	-7879	0.63	6.67	4.38	0	1	-7878	0.88	6.57	4.38	0	1
-7877	0.63	6.57	4.38	0	1	-7876	0.88	6.47	4.38	0	1	-7875	0.63	6.47	4.38	0	1
-7874	0.88	6.37	4.38	0	1	-7873	0.63	6.37	4.38	0	1	-7872	0.88	6.28	4.38	0	1
-7871	0.63	6.28	4.38	0	1	-7870	0.88	6.18	4.38	0	1	-7869	0.63	6.18	4.38	0	1
-7868	0.88	6.08	4.38	0	1	-7867	0.63	6.08	4.38	0	1	-7866	0.88	5.98	4.38	0	1
-7865	0.63	5.98	4.38	0	1	-7864	0.88	5.88	4.38	0	1	-7863	0.63	5.88	4.38	0	1
-7862	0.88	5.79	4.38	0	1	-7861	0.63	5.79	4.38	0	1	-7860	0.88	5.69	4.38	0	1
-7859	0.63	5.69	4.38	0	1	-7858	0.88	5.59	4.38	0	1	-7857	0.63	5.59	4.38	0	1
-7856	0.88	5.49	4.38	0	1	-7855	0.63	5.49	4.38	0	1	-7854	0.88	5.40	4.38	0	1
-7853	0.63	5.40	4.38	0	1	-7852	0.88	5.30	4.38	0	1	-7851	0.63	5.30	4.38	0	1
-7850	0.88	5.20	4.38	0	1	-7849	0.63	5.20	4.38	0	1	-7848	0.88	5.10	4.38	0	1
-7847	0.63	5.10	4.38	0	1	-7846	0.88	5.00	4.38	0	1	-7845	0.63	5.00	4.38	0	1
-7827	0.92	15.66	4.38	0	1	-7826	0.58	15.66	4.38	0	1	-7825	0.88	15.46	4.38	0	1
-7824	0.63	15.46	4.38	0	1	-7823	0.88	14.88	4.38	0	1	-7822	0.63	14.88	4.38	0	1
-7821	0.88	2.76	4.38	0	1	-7820	0.63	2.76	4.38	0	1	-7819	0.88	2.17	4.38	0	1
-7818	0.63	2.17	4.38	0	1	-7817	1.07	17.61	4.38	0	1	-7816	1.07	0.02	4.38	0	1
-7799	0.43	17.61	4.38	0	1	-7784	1.31	17.61	4.38	0	1	-7783	0.63	14.97	4.38	0	1

-7782	0.43	0.02	4.38	0	1	-7775	0.31	17.61	4.38	0	1	-7774	0.18	17.61	4.38	0	1
-7773	0.88	15.36	4.38	0	1	-7772	0.63	15.36	4.38	0	1	-7771	0.88	14.97	4.38	0	1
-7770	1.22	11.75	4.38	0	1	-7769	0.28	11.75	4.38	0	1	-7768	1.22	5.88	4.38	0	1
-7767	0.28	5.88	4.38	0	1	-7766	0.88	2.66	4.38	0	1	-7765	0.63	2.66	4.38	0	1
-7764	0.88	2.27	4.38	0	1	-7763	0.63	2.27	4.38	0	1	-7762	1.31	0.02	4.38	0	1
-7761	0.31	0.02	4.38	0	1	-7760	0.18	0.02	4.38	0	1	-7756	0.88	16.64	4.37	0	1
-7755	0.63	16.64	4.37	0	1	-7754	0.88	16.54	4.37	0	1	-7753	0.63	16.54	4.37	0	1
-7752	0.88	15.76	4.37	0	1	-7751	0.63	15.76	4.37	0	1	-7750	0.88	15.27	4.37	0	1
-7749	0.63	15.27	4.37	0	1	-7748	0.88	15.17	4.37	0	1	-7747	0.63	15.17	4.37	0	1
-7746	0.88	15.07	4.37	0	1	-7745	0.63	15.07	4.37	0	1	-7744	0.97	10.77	4.37	0	1
-7743	0.53	10.77	4.37	0	1	-7742	0.97	6.86	4.37	0	1	-7741	0.53	6.86	4.37	0	1
-7740	0.88	2.56	4.37	0	1	-7739	0.63	2.56	4.37	0	1	-7738	0.88	2.46	4.37	0	1
-7737	0.63	2.46	4.37	0	1	-7736	0.88	2.37	4.37	0	1	-7735	0.63	2.37	4.37	0	1
-7734	0.88	1.88	4.37	0	1	-7733	0.63	1.88	4.37	0	1	-7732	0.88	1.10	4.37	0	1
-7731	0.63	1.10	4.37	0	1	-7730	0.88	1.00	4.37	0	1	-7729	0.63	1.00	4.37	0	1
-7726	1.09	15.66	4.37	0	1	-7725	0.41	15.66	4.37	0	1	-7724	1.09	1.97	4.37	0	1
-7718	0.98	1.97	4.37	0	1	-7717	0.41	1.97	4.37	0	1	-7699	0.52	1.97	4.37	0	1
-7682	0.88	17.51	4.37	0	1	-7681	0.63	17.51	4.37	0	1	-7680	0.88	16.73	4.37	0	1
-7679	0.63	16.73	4.37	0	1	-7678	1.26	16.64	4.37	0	1	-7677	0.23	16.64	4.37	0	1
-7676	0.23	1.00	4.37	0	1	-7675	0.88	0.90	4.37	0	1	-7674	0.63	0.90	4.37	0	1
-7673	0.88	0.12	4.37	0	1	-7672	0.63	0.12	4.37	0	1	-7664	0.88	16.44	4.37	0	1
-7647	0.63	12.73	4.37	0	1	-7646	0.88	1.19	4.37	0	1	-7645	0.63	1.19	4.37	0	1
-7644	1.26	1.00	4.37	0	1	-7632	0.63	16.44	4.37	0	1	-7631	0.88	15.85	4.37	0	1
-7630	0.63	15.85	4.37	0	1	-7629	0.88	12.73	4.37	0	1	-7628	0.88	4.91	4.37	0	1
-7627	0.63	4.91	4.37	0	1	-7626	0.88	1.78	4.37	0	1	-7625	0.63	1.78	4.37	0	1
-7624	0.88	16.34	4.37	0	1	-7623	0.63	16.34	4.37	0	1	-7622	0.88	15.95	4.37	0	1
-7621	0.63	15.95	4.37	0	1	-7620	0.88	1.68	4.37	0	1	-7619	0.63	1.68	4.37	0	1
-7618	0.88	1.29	4.37	0	1	-7617	0.63	1.29	4.37	0	1	-7616	0.92	1.00	4.36	0	1
-7615	0.58	1.00	4.36	0	1	-7597	0.88	17.42	4.36	0	1	-7596	0.88	16.24	4.36	0	1
-7595	0.63	16.24	4.36	0	1	-7594	0.88	16.15	4.36	0	1	-7593	0.88	16.05	4.36	0	1
-7592	0.63	16.05	4.36	0	1	-7591	0.88	1.58	4.36	0	1	-7590	0.63	1.58	4.36	0	1
-7589	0.88	1.49	4.36	0	1	-7588	0.63	1.49	4.36	0	1	-7587	0.88	1.39	4.36	0	1
-7575	0.88	16.83	4.36	0	1	-7574	0.63	16.15	4.36	0	1	-7573	0.63	1.39	4.36	0	1
-7566	0.63	17.42	4.36	0	1	-7565	0.63	16.83	4.36	0	1	-7564	1.22	12.73	4.36	0	1
-7563	0.28	12.73	4.36	0	1	-7562	0.28	4.91	4.36	0	1	-7561	0.88	0.80	4.36	0	1
-7560	0.63	0.80	4.36	0	1	-7559	0.88	0.22	4.36	0	1	-7558	0.63	0.22	4.36	0	1
-7557	0.88	17.32	4.36	0	1	-7556	0.63	17.32	4.36	0	1	-7555	0.88	16.93	4.36	0	1
-7554	0.63	16.93	4.36	0	1	-7553	1.09	16.64	4.36	0	1	-7552	1.22	4.91	4.36	0	1
-7545	0.53	5.88	4.36	0	1	-7544	0.63	0.70	4.36	0	1	-7540	0.75	14.68	4.36	0	1
-7539	0.97	11.75	4.36	0	1	-7538	0.53	11.75	4.36	0	1	-7537	0.97	5.88	4.36	0	1
-7536	0.88	0.70	4.36	0	1	-7535	0.88	0.31	4.36	0	1	-7534	0.63	0.31	4.36	0	1
-7525	0.88	17.22	4.36	0	1	-7524	0.63	17.22	4.36	0	1	-7523	0.88	17.12	4.36	0	1
-7522	0.63	17.12	4.36	0	1	-7521	0.88	17.03	4.36	0	1	-7520	0.63	17.03	4.36	0	1
-7519	0.41	16.64	4.36	0	1	-7518	1.09	1.00	4.36	0	1	-7517	0.41	1.00	4.36	0	1
-7516	0.88	0.61	4.36	0	1	-7515	0.63	0.61	4.36	0	1	-7514	0.88	0.51	4.36	0	1
-7513	0.63	0.51	4.36	0	1	-7512	0.88	0.41	4.36	0	1	-7511	0.63	0.41	4.36	0	1
-7474	1.17	2.95	4.35	0	1	-7473	0.32	1.97	4.35	0	1	-7455	0.88	13.70	4.35	0	1
-7454	0.63	13.70	4.35	0	1	-7453	0.88	3.93	4.35	0	1	-7452	0.63	3.93	4.35	0	1
-7432	0.81	14.68	4.35	0	1	-7431	0.69	14.68	4.35	0	1	-7430	0.88	14.58	4.35	0	1
-7429	0.63	14.58	4.35	0	1	-7428	0.88	14.48	4.35	0	1	-7427	0.63	14.48	4.35	0	1
-7426	0.88	14.39	4.35	0	1	-7425	0.63	14.39	4.35	0	1	-7424	0.88	14.29	4.35	0	1
-7423	0.63	14.29	4.35	0	1	-7422	0.88	14.19	4.35	0	1	-7421	0.63	14.19	4.35	0	1
-7420	0.88	14.09	4.35	0	1	-7419	0.63	14.09	4.35	0	1	-7418	0.88	14.00	4.35	0	1
-7417	0.63	14.00	4.35	0	1	-7416	0.88	13.90	4.35	0	1	-7415	0.63	13.90	4.35	0	1
-7414	0.88	13.80	4.35	0	1	-7413	0.63	13.80	4.35	0	1	-7412	0.88	13.61	4.35	0	1
-7411	0.63	13.61	4.35	0	1	-7410	0.88	13.51	4.35	0	1	-7409	0.63	13.51	4.35	0	1
-7408	0.88	13.41	4.35	0	1	-7407	0.63	13.41	4.35	0	1	-7406	0.88	13.31	4.35	0	1
-7405	0.63	13.31	4.35	0	1	-7404	0.88	13.21	4.35	0	1	-7403	0.63	13.21	4.35	0	1
-7402	0.88	13.12	4.35	0	1	-7401	0.63	13.12	4.35	0	1	-7400	0.88	13.02	4.35	0	1
-7399	0.63	13.02	4.35	0	1	-7398	0.88	12.92	4.35	0	1	-7397	0.63	12.92	4.35	0	1
-7396	0.88	12.82	4.35	0	1	-7395	0.63	12.82	4.35	0	1	-7394	0.88	4.81	4.35	0	1
-7393	0.63	4.81	4.35	0	1	-7392	0.88	4.71	4.35	0	1	-7391	0.63	4.71	4.35	0	1
-7390	0.88	4.61	4.35	0	1	-7389	0.63	4.61	4.35	0	1	-7388	0.88	4.52	4.35	0	1
-7387	0.63	4.52	4.35	0	1	-7386	0.88	4.42	4.35	0	1	-7385	0.63	4.42	4.35	0	1
-7384	0.88	4.32	4.35	0	1	-7383	0.63	4.32	4.35	0	1	-7382	0.88	4.22	4.35	0	1
-7381	0.63	4.22	4.35	0	1	-7380	0.88	4.12	4.35	0	1	-7379	0.63	4.12	4.35	0	1
-7378	0.88	4.03	4.35	0	1	-7377	0.63	4.03	4.35	0	1	-7376	0.88	3.83	4.35	0	1
-7375	0.63	3.83	4.35	0	1	-7374	0.88	3.73	4.35	0	1	-7373	0.63	3.73	4.35	0	1
-7372	0.88	3.64	4.35	0	1	-7371	0.63	3.64	4.35	0	1	-7370	0.88	3.54	4.35	0	1
-7369	0.63	3.54	4.35	0	1	-7368	0.88	3.44	4.35	0	1	-7367	0.63	3.44	4.35	0	1
-7366	0.88	3.34	4.35	0	1	-7365	0.63	3.34	4.35	0	1	-7364	0.88	3.25	4.35	0	1
-7363	0.63	3.25	4.35	0	1	-7362	0.88	3.15	4.35	0	1	-7361	0.63	3.15	4.35	0	1
-7360	0.88	3.05	4.35	0	1	-7359	0.63	3.05	4.35	0	1	-7321	1.22	13.70	4.35	0	1
-7320	0.28	13.70	4.35	0	1	-7317	1.22	3.93	4.35	0	1	-7316	0.28	3.93	4.35	0	1
-7314	0.97	12.73	4.35	0	1	-7313	0.53	12.73	4.35	0	1	-7312	0.97	4.91	4.35	0	1
-7311	0.53	4.91	4.35	0	1	-7308	1.20	8.82	4.34	0	1	-7307	0.30	8.82	4.34	0	1
-7238	0.88	17.61	4.34	0	1	-7237	0.63	17.61	4.34	0	1	-7236	0.88	14.68	4.34	0	1
-7235	0.63	14.68	4.34	0	1	-7234	0.88	8.82	4.34	0	1	-7233	0.63	8.82	4.34	0	1
-7232	0.88	2.95	4.34	0	1	-7231	0.63	2.95	4.34	0	1	-7230	0.88	0.02	4.34	0	1

-7229	0.63	0.02	4.34	0	1	-7211	1.08	8.82	4.34	0	1	-7210	0.42	8.82	4.34	0	1
-7192	1.26	17.61	4.33	0	1	-7191	1.19	17.61	4.33	0	1	-7190	0.23	17.61	4.33	0	1
-7189	1.22	14.68	4.33	0	1	-7188	0.28	14.68	4.33	0	1	-7187	1.22	2.95	4.33	0	1
-7186	1.26	0.02	4.33	0	1	-7183	1.08	9.79	4.33	0	1	-7182	0.42	9.79	4.33	0	1
-7181	0.28	2.95	4.33	0	1	-7180	1.19	0.02	4.33	0	1	-7179	0.23	0.02	4.33	0	1
-7161	0.93	17.61	4.33	0	1	-7160	0.97	13.70	4.33	0	1	-7159	0.97	3.93	4.33	0	1
-7158	0.53	3.93	4.33	0	1	-7155	0.57	17.61	4.33	0	1	-7154	0.53	13.70	4.33	0	1
-7153	1.20	9.79	4.33	0	1	-7152	1.20	7.84	4.33	0	1	-7151	0.30	7.84	4.33	0	1
-7150	1.19	1.97	4.33	0	1	-7149	0.31	1.97	4.33	0	1	-7128	0.88	15.56	4.33	0	1
-7127	0.63	15.56	4.33	0	1	-7126	0.88	15.46	4.33	0	1	-7125	0.63	15.46	4.33	0	1
-7124	0.88	15.36	4.33	0	1	-7123	0.63	15.36	4.33	0	1	-7122	0.88	15.27	4.33	0	1
-7121	0.63	15.27	4.33	0	1	-7120	0.88	15.17	4.33	0	1	-7119	0.63	15.17	4.33	0	1
-7118	0.88	15.07	4.33	0	1	-7117	0.63	15.07	4.33	0	1	-7116	0.88	14.97	4.33	0	1
-7115	0.63	14.97	4.33	0	1	-7114	0.88	14.88	4.33	0	1	-7113	0.63	14.88	4.33	0	1
-7112	0.88	14.78	4.33	0	1	-7111	0.63	14.78	4.33	0	1	-7110	0.88	2.85	4.33	0	1
-7109	0.63	2.85	4.33	0	1	-7108	0.88	2.76	4.33	0	1	-7107	0.63	2.76	4.33	0	1
-7106	0.88	2.66	4.33	0	1	-7105	0.63	2.66	4.33	0	1	-7104	0.88	2.56	4.33	0	1
-7103	0.63	2.56	4.33	0	1	-7102	0.88	2.46	4.33	0	1	-7101	0.63	2.46	4.33	0	1
-7100	0.88	2.37	4.33	0	1	-7099	0.63	2.37	4.33	0	1	-7098	0.88	2.27	4.33	0	1
-7097	0.63	2.27	4.33	0	1	-7096	0.88	2.17	4.33	0	1	-7095	0.63	2.17	4.33	0	1
-7094	0.88	2.07	4.33	0	1	-7093	0.63	2.07	4.33	0	1	-7071	1.09	17.61	4.33	0	1
-7070	0.41	17.61	4.33	0	1	-7069	0.31	1.00	4.33	0	1	-7068	1.09	0.02	4.33	0	1
-7067	0.41	0.02	4.33	0	1	-7047	0.88	15.66	4.33	0	1	-7046	0.63	15.66	4.33	0	1
-7045	0.88	9.79	4.33	0	1	-7044	0.63	9.79	4.33	0	1	-7043	0.88	7.84	4.33	0	1
-7042	0.63	7.84	4.33	0	1	-7041	0.88	1.97	4.33	0	1	-7040	0.63	1.97	4.33	0	1
-7016	0.98	17.61	4.33	0	1	-7015	0.52	17.61	4.33	0	1	-7014	1.08	7.84	4.32	0	1
-7013	0.42	7.84	4.32	0	1	-7012	0.39	1.97	4.32	0	1	-7011	0.98	0.02	4.33	0	1
-7010	0.52	0.02	4.33	0	1	-6973	1.22	15.66	4.32	0	1	-6972	0.28	15.66	4.32	0	1
-6971	1.12	2.95	4.32	0	1	-6970	1.08	2.95	4.32	0	1	-6969	1.22	1.97	4.32	0	1
-6968	0.28	1.97	4.32	0	1	-6967	0.88	16.54	4.32	0	1	-6966	0.63	16.54	4.32	0	1
-6965	0.88	16.44	4.32	0	1	-6964	0.63	16.44	4.32	0	1	-6963	0.88	16.34	4.32	0	1
-6962	0.63	16.34	4.32	0	1	-6961	0.88	16.24	4.32	0	1	-6960	0.63	16.24	4.32	0	1
-6959	0.88	16.15	4.32	0	1	-6958	0.63	16.15	4.32	0	1	-6957	0.88	16.05	4.32	0	1
-6956	0.63	16.05	4.32	0	1	-6955	0.88	15.95	4.32	0	1	-6954	0.63	15.95	4.32	0	1
-6953	0.88	15.85	4.32	0	1	-6952	0.63	15.85	4.32	0	1	-6951	0.88	15.76	4.32	0	1
-6950	0.63	15.76	4.32	0	1	-6949	0.97	14.68	4.32	0	1	-6948	0.53	14.68	4.32	0	1
-6947	0.97	2.95	4.32	0	1	-6946	0.53	2.95	4.32	0	1	-6945	0.88	1.88	4.32	0	1
-6944	0.63	1.88	4.32	0	1	-6943	0.88	1.78	4.32	0	1	-6942	0.63	1.78	4.32	0	1
-6941	0.88	1.68	4.32	0	1	-6940	0.63	1.68	4.32	0	1	-6939	0.88	1.58	4.32	0	1
-6938	0.63	1.58	4.32	0	1	-6937	0.88	1.49	4.32	0	1	-6936	0.63	1.49	4.32	0	1
-6935	0.88	1.39	4.32	0	1	-6934	0.63	1.39	4.32	0	1	-6933	0.88	1.29	4.32	0	1
-6932	0.63	1.29	4.32	0	1	-6931	0.88	1.19	4.32	0	1	-6930	0.63	1.19	4.32	0	1
-6929	0.88	1.10	4.32	0	1	-6928	0.63	1.10	4.32	0	1	-6925	0.30	10.77	4.32	0	1
-6924	1.20	6.86	4.32	0	1	-6902	0.30	6.86	4.32	0	1	-6888	1.20	10.77	4.32	0	1
-6887	0.88	17.51	4.32	0	1	-6886	0.63	17.51	4.32	0	1	-6885	0.88	17.42	4.32	0	1
-6884	0.63	17.42	4.32	0	1	-6883	0.88	17.32	4.32	0	1	-6882	0.63	17.32	4.32	0	1
-6881	0.88	17.22	4.32	0	1	-6880	0.63	17.22	4.32	0	1	-6879	0.88	17.12	4.32	0	1
-6878	0.63	17.12	4.32	0	1	-6877	0.88	17.03	4.32	0	1	-6876	0.63	17.03	4.32	0	1
-6875	0.88	16.93	4.32	0	1	-6874	0.63	16.93	4.32	0	1	-6873	0.88	16.83	4.32	0	1
-6872	0.63	16.83	4.32	0	1	-6871	0.88	16.73	4.32	0	1	-6870	0.63	16.73	4.32	0	1
-6869	0.88	9.70	4.32	0	1	-6868	0.63	9.70	4.32	0	1	-6867	0.88	8.91	4.32	0	1
-6866	0.63	8.91	4.32	0	1	-6865	0.88	8.72	4.32	0	1	-6864	0.63	8.72	4.32	0	1
-6863	0.88	7.94	4.32	0	1	-6862	0.63	7.94	4.32	0	1	-6861	1.19	2.95	4.32	0	1
-6860	0.88	0.90	4.32	0	1	-6859	0.63	0.90	4.32	0	1	-6858	0.88	0.80	4.32	0	1
-6857	0.63	0.80	4.32	0	1	-6856	0.88	0.70	4.32	0	1	-6855	0.63	0.70	4.32	0	1
-6854	0.88	0.61	4.32	0	1	-6853	0.63	0.61	4.32	0	1	-6852	0.88	0.51	4.32	0	1
-6851	0.63	0.51	4.32	0	1	-6850	0.88	0.41	4.32	0	1	-6849	0.63	0.41	4.32	0	1
-6848	0.88	0.31	4.32	0	1	-6847	0.63	0.31	4.32	0	1	-6846	0.88	0.22	4.32	0	1
-6845	0.63	0.22	4.32	0	1	-6844	0.88	0.12	4.32	0	1	-6843	0.63	0.12	4.32	0	1
-6808	0.88	16.64	4.31	0	1	-6807	0.63	16.64	4.31	0	1	-6806	0.88	10.77	4.31	0	1
-6805	0.63	10.77	4.31	0	1	-6804	0.88	6.86	4.31	0	1	-6803	0.63	6.86	4.31	0	1
-6802	0.88	1.00	4.31	0	1	-6801	0.63	1.00	4.31	0	1	-6794	0.88	9.60	4.31	0	1
-6793	0.63	9.60	4.31	0	1	-6792	0.88	9.01	4.31	0	1	-6791	0.63	9.01	4.31	0	1
-6790	0.88	8.62	4.31	0	1	-6789	0.63	8.62	4.31	0	1	-6788	0.88	8.03	4.31	0	1
-6787	0.63	8.03	4.31	0	1	-6769	1.08	10.77	4.31	0	1	-6768	0.42	10.77	4.31	0	1
-6767	1.08	6.86	4.31	0	1	-6766	0.42	6.86	4.31	0	1	-6765	0.88	9.50	4.31	0	1
-6764	0.63	9.50	4.31	0	1	-6763	0.88	9.11	4.31	0	1	-6762	0.63	9.11	4.31	0	1
-6761	0.88	8.52	4.31	0	1	-6760	0.63	8.52	4.31	0	1	-6759	0.88	8.13	4.31	0	1
-6758	0.63	8.13	4.31	0	1	-6738	1.22	16.64	4.31	0	1	-6737	0.28	16.64	4.31	0	1
-6736	0.88	9.40	4.31	0	1	-6735	0.63	9.40	4.31	0	1	-6734	0.88	9.30	4.31	0	1
-6733	0.63	9.30	4.31	0	1	-6732	0.88	9.21	4.31	0	1	-6731	0.63	9.21	4.31	0	1
-6730	0.88	8.43	4.31	0	1	-6729	0.63	8.43	4.31	0	1	-6728	0.88	8.33	4.31	0	1
-6727	0.63	8.33	4.31	0	1	-6726	0.88	8.23	4.31	0	1	-6725	0.63	8.23	4.31	0	1
-6723	1.22	1.00	4.31	0	1	-6722	0.28	1.00	4.31	0	1	-6704	0.97	15.66	4.31	0	1
-6703	0.53	15.66	4.31	0	1	-6702	0.97	1.97	4.31	0	1	-6701	0.53	1.97	4.31	0	1
-6696	0.88	9.89	4.31	0	1	-6695	0.88	7.74	4.31	0	1	-6686	1.20	11.75	4.30	0	1
-6685	0.30	11.75	4.30	0	1	-6684	0.88	10.67	4.31	0	1	-6683	0.63	10.67	4.31	0	1
-6682	0.63	9.89	4.31	0	1	-6681	0.63	7.74	4.31	0	1	-6680	0.88	6.96	4.31	0	1
-6679	0.63	6.96	4.31	0	1	-6676	1.20	5.88	4.30	0	1	-6675	0.30	5.88	4.30	0	1

-6662	1.14	3.93	4.30	0	1	-6661	0.36	3.93	4.30	0	1	-6637	0.88	10.58	4.30	0	1
-6636	0.63	10.58	4.30	0	1	-6635	0.88	9.99	4.30	0	1	-6634	0.63	9.99	4.30	0	1
-6633	0.88	7.64	4.30	0	1	-6632	0.63	7.64	4.30	0	1	-6631	0.88	7.06	4.30	0	1
-6630	0.63	7.06	4.30	0	1	-6610	0.88	11.75	4.30	0	1	-6609	0.63	11.75	4.30	0	1
-6608	0.88	10.48	4.30	0	1	-6607	0.63	10.48	4.30	0	1	-6606	0.88	10.09	4.30	0	1
-6605	0.63	10.09	4.30	0	1	-6604	0.88	7.55	4.30	0	1	-6603	0.63	7.55	4.30	0	1
-6602	0.88	7.15	4.30	0	1	-6601	0.63	7.15	4.30	0	1	-6600	0.88	5.88	4.30	0	1
-6599	0.63	5.88	4.30	0	1	-6577	1.08	11.75	4.30	0	1	-6576	0.42	11.75	4.30	0	1
-6575	0.88	10.38	4.30	0	1	-6574	0.63	10.38	4.30	0	1	-6573	0.88	10.28	4.30	0	1
-6572	0.63	10.28	4.30	0	1	-6571	0.88	10.18	4.30	0	1	-6570	0.63	10.18	4.30	0	1
-6569	0.88	7.45	4.30	0	1	-6568	0.63	7.45	4.30	0	1	-6567	0.88	7.35	4.30	0	1
-6566	0.63	7.35	4.30	0	1	-6565	0.88	7.25	4.30	0	1	-6564	0.63	7.25	4.30	0	1
-6563	1.08	5.88	4.30	0	1	-6562	0.42	5.88	4.30	0	1	-6561	1.18	1.97	4.30	0	1
-6560	0.32	1.97	4.30	0	1	-6557	0.31	1.97	4.30	0	1	-6543	0.88	12.63	4.30	0	1
-6542	0.88	5.79	4.30	0	1	-6541	0.63	5.79	4.30	0	1	-6540	1.19	1.97	4.30	0	1
-6518	0.63	12.63	4.30	0	1	-6517	0.88	11.85	4.30	0	1	-6516	0.63	11.85	4.30	0	1
-6515	0.88	11.65	4.30	0	1	-6514	0.63	11.65	4.30	0	1	-6513	0.88	10.87	4.30	0	1
-6512	0.63	10.87	4.30	0	1	-6511	0.88	6.76	4.30	0	1	-6510	0.63	6.76	4.30	0	1
-6509	0.88	5.98	4.30	0	1	-6508	0.63	5.98	4.30	0	1	-6507	0.88	5.00	4.30	0	1
-6506	0.63	5.00	4.30	0	1	-6504	1.03	17.61	4.29	0	1	-6503	1.18	2.95	4.29	0	1
-6502	0.42	1.00	4.29	0	1	-6500	0.97	16.64	4.29	0	1	-6499	0.53	16.64	4.29	0	1
-6498	0.97	1.00	4.29	0	1	-6497	0.53	1.00	4.29	0	1	-6458	1.20	12.72	4.29	0	1
-6457	0.30	12.72	4.29	0	1	-6456	0.88	12.53	4.29	0	1	-6455	0.63	12.53	4.29	0	1
-6454	0.88	11.94	4.29	0	1	-6453	0.63	11.94	4.29	0	1	-6452	0.88	11.55	4.29	0	1
-6451	0.63	11.55	4.29	0	1	-6450	0.88	10.97	4.29	0	1	-6449	0.63	10.97	4.29	0	1
-6448	0.88	6.67	4.29	0	1	-6447	0.63	6.67	4.29	0	1	-6446	0.88	6.08	4.29	0	1
-6445	0.63	6.08	4.29	0	1	-6444	0.88	5.69	4.29	0	1	-6443	0.63	5.69	4.29	0	1
-6442	0.88	5.10	4.29	0	1	-6441	0.63	5.10	4.29	0	1	-6440	1.20	4.91	4.29	0	1
-6439	0.30	4.91	4.29	0	1	-6435	0.88	12.43	4.29	0	1	-6434	0.63	12.43	4.29	0	1
-6433	0.88	12.04	4.29	0	1	-6432	0.63	12.04	4.29	0	1	-6431	0.88	11.46	4.29	0	1
-6430	0.63	11.46	4.29	0	1	-6429	0.88	11.06	4.29	0	1	-6428	0.63	11.06	4.29	0	1
-6427	0.88	6.57	4.29	0	1	-6426	0.63	6.57	4.29	0	1	-6425	0.88	6.18	4.29	0	1
-6424	0.63	6.18	4.29	0	1	-6423	0.63	5.59	4.29	0	1	-6422	0.88	5.20	4.29	0	1
-6421	0.63	5.20	4.29	0	1	-6407	0.88	5.59	4.29	0	1	-6406	0.88	12.33	4.29	0	1
-6405	0.63	12.33	4.29	0	1	-6404	0.88	12.24	4.29	0	1	-6403	0.63	12.24	4.29	0	1
-6402	0.88	12.14	4.29	0	1	-6401	0.63	12.14	4.29	0	1	-6400	0.88	11.36	4.29	0	1
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-6396	0.88	11.16	4.29	0	1	-6395	0.63	11.16	4.29	0	1	-6394	0.88	6.47	4.29	0	1
-6393	0.63	6.47	4.29	0	1	-6392	0.88	6.37	4.29	0	1	-6391	0.63	6.37	4.29	0	1
-6390	0.88	6.28	4.29	0	1	-6389	0.63	6.28	4.29	0	1	-6388	0.88	5.49	4.29	0	1
-6387	0.63	5.49	4.29	0	1	-6386	0.88	5.40	4.29	0	1	-6385	0.63	5.40	4.29	0	1
-6384	0.88	5.30	4.29	0	1	-6383	0.63	5.30	4.29	0	1	-6343	0.88	12.73	4.29	0	1
-6342	0.63	12.73	4.29	0	1	-6341	0.88	4.91	4.29	0	1	-6340	0.63	4.91	4.29	0	1
-6332	1.08	4.91	4.28	0	1	-6314	1.08	12.73	4.28	0	1	-6313	0.42	12.73	4.28	0	1
-6312	0.42	4.91	4.28	0	1	-6282	1.12	17.61	4.28	0	1	-6267	0.88	17.61	4.28	0	1
-6266	0.75	17.61	4.28	0	1	-6265	0.69	17.61	4.28	0	1	-6264	0.63	17.61	4.28	0	1
-6263	0.88	0.02	4.28	0	1	-6262	0.81	0.02	4.28	0	1	-6261	0.69	0.02	4.28	0	1
-6260	0.63	0.02	4.28	0	1	-6255	0.81	17.61	4.28	0	1	-6254	0.75	0.02	4.28	0	1
-6241	1.20	3.93	4.28	0	1	-6233	0.30	3.93	4.28	0	1	-6208	1.14	1.97	4.28	0	1
-6207	0.36	1.97	4.28	0	1	-6205	1.22	17.61	4.28	0	1	-6204	0.28	17.61	4.28	0	1
-6203	0.48	1.97	4.28	0	1	-6202	1.22	0.02	4.28	0	1	-6201	0.28	0.02	4.28	0	1
-6179	0.88	13.70	4.27	0	1	-6178	0.63	13.70	4.27	0	1	-6177	0.88	3.93	4.27	0	1
-6176	0.63	3.93	4.27	0	1	-6150	1.19	17.61	4.27	0	1	-6149	0.92	17.61	4.27	0	1
-6148	0.58	17.61	4.27	0	1	-6147	1.08	13.70	4.27	0	1	-6146	0.42	13.70	4.27	0	1
-6145	1.08	3.93	4.27	0	1	-6144	0.42	3.93	4.27	0	1	-6091	0.88	14.58	4.27	0	1
-6090	0.63	14.58	4.27	0	1	-6089	0.88	13.80	4.27	0	1	-6088	0.63	13.80	4.27	0	1
-6087	0.88	13.61	4.27	0	1	-6086	0.63	13.61	4.27	0	1	-6085	0.88	12.82	4.27	0	1
-6084	0.63	12.82	4.27	0	1	-6083	0.88	4.81	4.27	0	1	-6082	0.63	4.81	4.27	0	1
-6081	0.88	4.03	4.27	0	1	-6080	0.63	4.03	4.27	0	1	-6079	0.88	3.83	4.27	0	1
-6078	0.63	3.83	4.27	0	1	-6077	0.88	3.05	4.27	0	1	-6076	0.63	3.05	4.27	0	1
-6041	1.20	14.68	4.27	0	1	-6040	0.30	14.68	4.27	0	1	-6039	1.20	2.95	4.27	0	1
-6038	0.30	2.95	4.27	0	1	-6035	1.19	9.79	4.26	0	1	-6034	1.19	7.84	4.26	0	1
-6033	0.31	7.84	4.26	0	1	-6027	1.13	1.00	4.26	0	1	-6026	0.37	1.00	4.26	0	1
-6017	0.88	14.48	4.26	0	1	-6016	0.63	14.48	4.26	0	1	-6015	0.63	13.90	4.26	0	1
-6014	0.88	13.51	4.26	0	1	-6013	0.63	13.51	4.26	0	1	-6012	0.88	12.92	4.26	0	1
-6011	0.63	12.92	4.26	0	1	-6010	1.20	8.82	4.26	0	1	-6009	0.88	4.71	4.26	0	1
-6008	0.63	4.71	4.26	0	1	-6007	0.88	4.12	4.26	0	1	-6006	0.63	4.12	4.26	0	1
-6005	0.88	3.73	4.26	0	1	-6004	0.63	3.73	4.26	0	1	-6003	0.88	3.15	4.26	0	1
-5975	0.88	13.90	4.26	0	1	-5974	0.30	8.82	4.26	0	1	-5973	0.63	3.15	4.26	0	1
-5969	0.97	17.61	4.26	0	1	-5968	0.53	17.61	4.26	0	1	-5967	0.88	14.68	4.26	0	1
-5966	0.63	14.68	4.26	0	1	-5965	0.88	14.39	4.26	0	1	-5964	0.63	14.39	4.26	0	1
-5963	0.88	14.00	4.26	0	1	-5962	0.63	14.00	4.26	0	1	-5961	0.88	13.41	4.26	0	1
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-5954	0.63	4.22	4.26	0	1	-5953	0.88	3.64	4.26	0	1	-5952	0.63	3.64	4.26	0	1
-5951	0.88	3.25	4.26	0	1	-5950	0.63	3.25	4.26	0	1	-5949	0.88	2.95	4.26	0	1
-5948	0.63	2.95	4.26	0	1	-5947	0.97	0.02	4.26	0	1	-5946	0.53	0.02	4.26	0	1
-5941	0.42	14.68	4.26	0	1	-5940	0.88	14.29	4.26	0	1	-5939	0.63	14.29	4.26	0	1
-5938	0.88	14.19	4.26	0	1	-5937	0.63	14.19	4.26	0	1	-5936	0.88	14.09	4.26	0	1

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-5932	0.88	13.21	4.26	0	1	-5931	0.63	13.21	4.26	0	1	-5930	0.63	13.12	4.26	0	1
-5929	0.88	4.52	4.26	0	1	-5926	1.08	14.68	4.26	0	1	-5925	0.88	13.12	4.26	0	1
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-5918	0.63	3.54	4.26	0	1	-5917	0.88	3.44	4.26	0	1	-5916	0.63	3.44	4.26	0	1
-5915	0.88	3.34	4.26	0	1	-5914	0.63	3.34	4.26	0	1	-5913	1.15	2.95	4.26	0	1
-5897	1.08	2.95	4.26	0	1	-5896	0.42	2.95	4.26	0	1	-5873	1.07	17.61	4.25	0	1
-5832	1.20	15.66	4.25	0	1	-5831	0.30	15.66	4.25	0	1	-5830	1.20	1.97	4.25	0	1
-5829	0.30	1.97	4.25	0	1	-5810	1.19	6.86	4.25	0	1	-5809	0.31	6.86	4.25	0	1
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-5785	0.32	1.00	4.25	0	1	-5782	0.63	2.07	4.25	0	1	-5767	0.63	1.97	4.25	0	1
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-5751	0.88	2.07	4.25	0	1	-5750	1.08	15.66	4.24	0	1	-5749	0.42	15.66	4.24	0	1
-5748	1.08	1.97	4.24	0	1	-5737	0.42	1.97	4.24	0	1	-5700	0.88	15.46	4.24	0	1
-5699	0.63	15.46	4.24	0	1	-5698	0.88	14.88	4.24	0	1	-5697	0.63	14.88	4.24	0	1
-5696	0.88	2.76	4.24	0	1	-5695	0.63	2.76	4.24	0	1	-5694	0.88	2.17	4.24	0	1
-5693	0.63	2.17	4.24	0	1	-5685	0.63	14.97	4.24	0	1	-5684	0.88	2.66	4.24	0	1
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-5636	0.63	15.27	4.24	0	1	-5635	0.88	15.17	4.24	0	1	-5634	0.63	15.17	4.24	0	1
-5633	0.88	15.07	4.24	0	1	-5632	0.63	15.07	4.24	0	1	-5631	0.88	2.56	4.24	0	1
-5630	0.63	2.56	4.24	0	1	-5629	0.88	2.46	4.24	0	1	-5628	0.63	2.46	4.24	0	1
-5627	0.88	2.37	4.24	0	1	-5626	0.63	2.37	4.24	0	1	-5625	1.19	1.00	4.24	0	1
-5624	0.31	1.00	4.24	0	1	-5616	0.88	16.54	4.24	0	1	-5615	0.63	16.54	4.24	0	1
-5614	0.88	15.76	4.24	0	1	-5613	0.63	15.76	4.24	0	1	-5612	1.19	5.88	4.24	0	1
-5611	0.31	5.88	4.24	0	1	-5610	0.88	1.88	4.24	0	1	-5609	0.63	1.88	4.24	0	1
-5608	0.88	1.10	4.24	0	1	-5607	0.63	1.10	4.24	0	1	-5566	1.19	10.77	4.23	0	1
-5565	1.14	17.61	4.23	0	1	-5564	0.63	16.64	4.23	0	1	-5563	0.31	10.77	4.23	0	1
-5562	0.88	1.00	4.23	0	1	-5560	0.36	17.61	4.23	0	1	-5559	0.88	16.64	4.23	0	1
-5558	0.63	1.00	4.23	0	1	-5556	1.14	0.02	4.23	0	1	-5541	0.88	17.51	4.23	0	1
-5540	0.63	17.51	4.23	0	1	-5539	0.88	16.73	4.23	0	1	-5538	0.63	16.73	4.23	0	1
-5537	1.08	16.64	4.23	0	1	-5536	0.42	16.64	4.23	0	1	-5535	0.63	16.44	4.23	0	1
-5534	0.63	15.85	4.23	0	1	-5533	0.88	1.78	4.23	0	1	-5532	0.63	1.78	4.23	0	1
-5531	0.88	1.19	4.23	0	1	-5530	0.63	1.19	4.23	0	1	-5529	0.42	1.00	4.23	0	1
-5528	0.63	0.90	4.23	0	1	-5527	0.36	0.02	4.23	0	1	-5523	0.88	16.44	4.23	0	1
-5522	0.88	15.85	4.23	0	1	-5521	1.08	1.00	4.23	0	1	-5520	0.88	16.34	4.23	0	1
-5519	0.63	16.34	4.23	0	1	-5518	0.88	15.95	4.23	0	1	-5517	0.63	15.95	4.23	0	1
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-5485	0.88	16.05	4.23	0	1	-5484	0.63	16.05	4.23	0	1	-5483	0.34	1.97	4.23	0	1
-5482	0.88	1.58	4.23	0	1	-5481	0.63	1.58	4.23	0	1	-5480	0.88	1.49	4.23	0	1
-5479	0.63	1.49	4.23	0	1	-5478	0.88	1.39	4.23	0	1	-5477	0.63	1.39	4.23	0	1
-5457	0.88	17.42	4.23	0	1	-5456	0.63	17.42	4.23	0	1	-5455	0.88	16.83	4.23	0	1
-5454	0.63	16.83	4.23	0	1	-5453	1.13	2.95	4.23	0	1	-5452	0.88	0.80	4.23	0	1
-5451	0.63	0.80	4.23	0	1	-5450	0.88	0.22	4.23	0	1	-5449	0.63	0.22	4.23	0	1
-5429	0.88	17.32	4.22	0	1	-5428	0.63	17.32	4.22	0	1	-5427	0.88	16.93	4.22	0	1
-5426	0.63	16.93	4.22	0	1	-5425	0.88	0.70	4.22	0	1	-5424	0.63	0.70	4.22	0	1
-5423	0.88	0.31	4.22	0	1	-5422	0.63	0.31	4.22	0	1	-5419	0.88	17.12	4.22	0	1
-5403	0.88	17.22	4.22	0	1	-5402	0.63	17.22	4.22	0	1	-5401	0.63	0.61	4.22	0	1
-5400	0.88	0.51	4.22	0	1	-5399	0.63	0.41	4.22	0	1	-5393	0.63	17.12	4.22	0	1
-5392	0.88	17.03	4.22	0	1	-5391	0.63	17.03	4.22	0	1	-5390	0.88	0.61	4.22	0	1
-5389	0.63	0.51	4.22	0	1	-5388	0.88	0.41	4.22	0	1	-5386	1.19	4.91	4.22	0	1
-5385	0.31	4.91	4.22	0	1	-5359	1.19	11.75	4.22	0	1	-5358	0.31	11.75	4.22	0	1
-5280	0.37	1.97	4.21	0	1	-5237	0.75	17.61	4.21	0	1	-5236	0.88	8.82	4.21	0	1
-5235	0.81	8.82	4.21	0	1	-5234	0.75	8.82	4.21	0	1	-5233	0.69	8.82	4.21	0	1
-5232	0.63	8.82	4.21	0	1	-5231	0.75	0.02	4.21	0	1	-5228	0.88	8.91	4.21	0	1
-5227	0.81	8.91	4.21	0	1	-5226	0.75	8.91	4.21	0	1	-5225	0.69	8.91	4.21	0	1
-5224	0.63	8.91	4.21	0	1	-5223	0.88	8.72	4.21	0	1	-5222	0.81	8.72	4.21	0	1
-5221	0.75	8.72	4.21	0	1	-5220	0.69	8.72	4.21	0	1	-5219	0.63	8.72	4.21	0	1
-5218	1.18	3.93	4.21	0	1	-5217	0.32	3.93	4.21	0	1	-5191	0.88	9.01	4.21	0	1
-5190	0.81	9.01	4.21	0	1	-5189	0.75	9.01	4.21	0	1	-5188	0.69	9.01	4.21	0	1
-5187	0.63	9.01	4.21	0	1	-5186	0.88	8.62	4.21	0	1	-5185	0.81	8.62	4.21	0	1
-5184	0.75	8.62	4.21	0	1	-5183	0.69	8.62	4.21	0	1	-5182	0.63	8.62	4.21	0	1
-5164	0.81	17.61	4.21	0	1	-5163	0.88	9.11	4.21	0	1	-5162	0.81	9.11	4.21	0	1
-5161	0.69	9.11	4.21	0	1	-5159	1.19	17.61	4.21	0	1	-5158	0.75	9.11	4.21	0	1
-5157	0.63	9.11	4.21	0	1	-5156	0.75	8.52	4.21	0	1	-5153	0.69	17.61	4.21	0	1
-5152	0.31	17.61	4.21	0	1	-5151	0.88	8.52	4.21	0	1	-5150	0.81	8.52	4.21	0	1
-5149	0.69	8.52	4.21	0	1	-5148	0.63	8.52	4.21	0	1	-5147	1.19	0.02	4.21	0	1
-5146	0.81	0.02	4.21	0	1	-5145	0.69	0.02	4.21	0	1	-5144	0.31	0.02	4.21	0	1
-5141	0.88	9.21	4.20	0	1	-5140	0.81	9.21	4.20	0	1	-5139	0.75	9.21	4.20	0	1
-5138	0.69	9.21	4.20	0	1	-5137	0.63	9.21	4.20	0	1	-5136	0.88	8.43	4.20	0	1
-5135	0.81	8.43	4.20	0	1	-5134	0.75	8.43	4.20	0	1	-5133	0.69	8.43	4.20	0	1
-5132	0.63	8.43	4.20	0	1	-5112	1.19	12.73	4.20	0	1	-5111	0.31	12.73	4.20	0	1
-5110	0.88	9.30	4.20	0	1	-5109	0.81	9.30	4.20	0	1	-5108	0.75	9.30	4.20	0	1

-5107	0.69	9.30	4.20	0	1	-5106	0.63	9.30	4.20	0	1	-5105	0.88	8.33	4.20	0	1
-5104	0.81	8.33	4.20	0	1	-5103	0.75	8.33	4.20	0	1	-5102	0.69	8.33	4.20	0	1
-5101	0.63	8.33	4.20	0	1	-5079	0.88	17.61	4.20	0	1	-5078	0.63	17.61	4.20	0	1
-5077	0.88	9.40	4.20	0	1	-5076	0.81	9.40	4.20	0	1	-5075	0.75	9.40	4.20	0	1
-5074	0.69	9.40	4.20	0	1	-5073	0.63	9.40	4.20	0	1	-5072	0.88	8.23	4.20	0	1
-5071	0.81	8.23	4.20	0	1	-5070	0.75	8.23	4.20	0	1	-5069	0.69	8.23	4.20	0	1
-5068	0.63	8.23	4.20	0	1	-5067	0.63	0.02	4.20	0	1	-5064	0.88	9.50	4.20	0	1
-5063	0.81	9.50	4.20	0	1	-5062	0.75	9.50	4.20	0	1	-5061	0.69	9.50	4.20	0	1
-5060	0.63	9.50	4.20	0	1	-5059	0.88	8.13	4.20	0	1	-5058	0.81	8.13	4.20	0	1
-5057	0.75	8.13	4.20	0	1	-5056	0.69	8.13	4.20	0	1	-5055	0.63	8.13	4.20	0	1
-5054	0.88	0.02	4.20	0	1	-5028	1.08	17.61	4.20	0	1	-5027	0.42	17.61	4.20	0	1
-5026	0.88	9.60	4.20	0	1	-5025	0.81	9.60	4.20	0	1	-5024	0.75	9.60	4.20	0	1
-5023	0.69	9.60	4.20	0	1	-5022	0.63	9.60	4.20	0	1	-5021	0.88	8.03	4.20	0	1
-5020	0.81	8.03	4.20	0	1	-5019	0.75	8.03	4.20	0	1	-5018	0.69	8.03	4.20	0	1
-5017	0.63	8.03	4.20	0	1	-5016	1.08	0.02	4.20	0	1	-5015	0.42	0.02	4.20	0	1
-5012	0.88	9.70	4.20	0	1	-5011	0.81	9.70	4.20	0	1	-5010	0.75	9.70	4.20	0	1
-5009	0.69	9.70	4.20	0	1	-5008	0.63	9.70	4.20	0	1	-5007	0.88	7.94	4.20	0	1
-5006	0.81	7.94	4.20	0	1	-5005	0.75	7.94	4.20	0	1	-5004	0.69	7.94	4.20	0	1
-5003	0.63	7.94	4.20	0	1	-5000	1.18	14.68	4.19	0	1	-4999	0.75	7.84	4.19	0	1
-4998	1.18	2.95	4.19	0	1	-4986	0.88	9.79	4.19	0	1	-4985	0.81	9.79	4.19	0	1
-4984	0.75	9.79	4.19	0	1	-4983	0.63	9.79	4.19	0	1	-4982	0.81	7.84	4.19	0	1
-4981	0.69	7.84	4.19	0	1	-4974	0.69	9.79	4.19	0	1	-4973	0.88	7.84	4.19	0	1
-4972	0.63	7.84	4.19	0	1	-4971	0.32	2.95	4.19	0	1	-4963	0.88	9.89	4.19	0	1
-4962	0.81	9.89	4.19	0	1	-4961	0.75	9.89	4.19	0	1	-4960	0.69	9.89	4.19	0	1
-4959	0.63	9.89	4.19	0	1	-4958	0.88	7.74	4.19	0	1	-4957	0.81	7.74	4.19	0	1
-4956	0.75	7.74	4.19	0	1	-4955	0.69	7.74	4.19	0	1	-4954	0.63	7.74	4.19	0	1
-4947	0.88	9.99	4.19	0	1	-4946	0.81	9.99	4.19	0	1	-4945	0.75	9.99	4.19	0	1
-4944	0.69	9.99	4.19	0	1	-4943	0.63	9.99	4.19	0	1	-4942	0.88	7.64	4.19	0	1
-4941	0.81	7.64	4.19	0	1	-4940	0.75	7.64	4.19	0	1	-4939	0.69	7.64	4.19	0	1
-4938	0.63	7.64	4.19	0	1	-4937	0.93	17.61	4.19	0	1	-4921	0.57	17.61	4.19	0	1
-4913	0.88	10.09	4.19	0	1	-4912	0.81	10.09	4.19	0	1	-4911	0.75	10.09	4.19	0	1
-4910	0.69	10.09	4.19	0	1	-4909	0.63	10.09	4.19	0	1	-4908	0.88	7.55	4.19	0	1
-4907	0.81	7.55	4.19	0	1	-4906	0.75	7.55	4.19	0	1	-4905	0.69	7.55	4.19	0	1
-4904	0.63	7.55	4.19	0	1	-4901	0.88	10.18	4.19	0	1	-4900	0.81	10.18	4.19	0	1
-4899	0.63	10.18	4.19	0	1	-4898	0.88	7.45	4.19	0	1	-4894	0.75	10.18	4.19	0	1
-4893	0.69	10.18	4.19	0	1	-4892	0.81	7.45	4.19	0	1	-4891	0.75	7.45	4.19	0	1
-4890	0.69	7.45	4.19	0	1	-4889	0.63	7.45	4.19	0	1	-4881	0.88	10.28	4.19	0	1
-4880	0.81	10.28	4.19	0	1	-4879	0.75	10.28	4.19	0	1	-4878	0.69	10.28	4.19	0	1
-4877	0.63	10.28	4.19	0	1	-4876	0.88	7.35	4.19	0	1	-4875	0.81	7.35	4.19	0	1
-4874	0.75	7.35	4.19	0	1	-4873	0.69	7.35	4.19	0	1	-4872	0.63	7.35	4.19	0	1
-4852	0.88	10.38	4.19	0	1	-4851	0.81	10.38	4.19	0	1	-4850	0.75	10.38	4.19	0	1
-4849	0.69	10.38	4.19	0	1	-4848	0.63	10.38	4.19	0	1	-4847	0.88	7.25	4.19	0	1
-4846	0.81	7.25	4.19	0	1	-4845	0.75	7.25	4.19	0	1	-4844	0.69	7.25	4.19	0	1
-4843	0.63	7.25	4.19	0	1	-4838	0.88	10.48	4.18	0	1	-4837	0.81	10.48	4.18	0	1
-4836	0.75	10.48	4.18	0	1	-4835	0.69	10.48	4.18	0	1	-4834	0.63	10.48	4.18	0	1
-4833	0.88	7.15	4.18	0	1	-4832	0.81	7.15	4.18	0	1	-4831	0.75	7.15	4.18	0	1
-4830	0.69	7.15	4.18	0	1	-4829	0.63	7.15	4.18	0	1	-4826	0.88	10.58	4.18	0	1
-4825	0.81	10.58	4.18	0	1	-4824	0.75	10.58	4.18	0	1	-4823	0.69	10.58	4.18	0	1
-4822	0.63	10.58	4.18	0	1	-4821	0.88	7.06	4.18	0	1	-4820	0.81	7.06	4.18	0	1
-4819	0.75	7.06	4.18	0	1	-4818	0.69	7.06	4.18	0	1	-4817	0.63	7.06	4.18	0	1
-4797	0.98	17.61	4.18	0	1	-4796	0.52	17.61	4.18	0	1	-4795	0.88	10.67	4.18	0	1
-4794	0.81	10.67	4.18	0	1	-4793	0.75	10.67	4.18	0	1	-4792	0.69	10.67	4.18	0	1
-4791	0.63	10.67	4.18	0	1	-4790	0.88	6.96	4.18	0	1	-4789	0.81	6.96	4.18	0	1
-4788	0.75	6.96	4.18	0	1	-4787	0.69	6.96	4.18	0	1	-4786	0.63	6.96	4.18	0	1
-4785	1.18	1.97	4.18	0	1	-4784	0.32	1.97	4.18	0	1	-4783	0.98	0.02	4.18	0	1
-4782	0.52	0.02	4.18	0	1	-4781	0.88	10.77	4.18	0	1	-4780	0.81	10.77	4.18	0	1
-4779	0.75	10.77	4.18	0	1	-4778	0.69	10.77	4.18	0	1	-4777	0.63	10.77	4.18	0	1
-4776	0.88	6.86	4.18	0	1	-4775	0.81	6.86	4.18	0	1	-4774	0.75	6.86	4.18	0	1
-4773	0.69	6.86	4.18	0	1	-4772	0.63	6.86	4.18	0	1	-4769	0.88	10.87	4.18	0	1
-4768	0.81	10.87	4.18	0	1	-4767	0.75	10.87	4.18	0	1	-4766	0.69	10.87	4.18	0	1
-4765	0.63	10.87	4.18	0	1	-4764	0.88	6.76	4.18	0	1	-4763	0.81	6.76	4.18	0	1
-4762	0.75	6.76	4.18	0	1	-4761	0.69	6.76	4.18	0	1	-4760	0.63	6.76	4.18	0	1
-4740	0.88	10.97	4.18	0	1	-4739	0.81	10.97	4.18	0	1	-4738	0.75	10.97	4.18	0	1
-4737	0.69	10.97	4.18	0	1	-4736	0.63	10.97	4.18	0	1	-4735	0.81	6.67	4.18	0	1
-4734	0.75	6.67	4.18	0	1	-4733	0.69	6.67	4.18	0	1	-4724	0.88	6.67	4.18	0	1
-4723	0.63	6.67	4.18	0	1	-4722	0.88	11.06	4.17	0	1	-4721	0.81	11.06	4.17	0	1
-4720	0.75	11.06	4.17	0	1	-4719	0.69	11.06	4.17	0	1	-4718	0.63	11.06	4.17	0	1
-4717	0.88	6.57	4.17	0	1	-4716	0.81	6.57	4.17	0	1	-4715	0.75	6.57	4.17	0	1
-4714	0.69	6.57	4.17	0	1	-4713	0.63	6.57	4.17	0	1	-4710	0.88	11.16	4.17	0	1
-4709	0.81	11.16	4.17	0	1	-4708	0.75	11.16	4.17	0	1	-4707	0.69	11.16	4.17	0	1
-4706	0.63	11.16	4.17	0	1	-4705	0.88	6.47	4.17	0	1	-4704	0.81	6.47	4.17	0	1
-4703	0.75	6.47	4.17	0	1	-4702	0.69	6.47	4.17	0	1	-4701	0.63	6.47	4.17	0	1
-4518	0.31	14.68	4.17	0	1	-4517	0.88	11.26	4.17	0	1	-4516	0.81	11.26	4.17	0	1
-4515	0.75	11.26	4.17	0	1	-4514	0.69	11.26	4.17	0	1	-4513	0.63	11.26	4.17	0	1
-4512	0.88	6.37	4.17	0	1	-4511	0.81	6.37	4.17	0	1	-4510	0.75	6.37	4.17	0	1
-4509	0.69	6.37	4.17	0	1	-4508	0.63	6.37	4.17	0	1	-4507	0.88	11.36	4.17	0	1
-4506	0.81	11.36	4.17	0	1	-4505	0.88	6.28	4.17	0	1	-4504	0.81	6.28	4.17	0	1
-4500	0.75	11.36	4.17	0	1	-4499	0.69	11.36	4.17	0	1	-4498	0.63	11.36	4.17	0	1
-4497	0.75	6.28	4.17	0	1	-4496	0.69	6.28	4.17	0	1	-4495	0.63	6.28	4.17	0	1

-4491	0.88	11.46	4.17	0	1	-4490	0.81	11.46	4.17	0	1	-4489	0.75	11.46	4.17	0	1
-4488	0.69	11.46	4.17	0	1	-4487	0.63	11.46	4.17	0	1	-4486	0.88	6.18	4.17	0	1
-4485	0.81	6.18	4.17	0	1	-4484	0.75	6.18	4.17	0	1	-4483	0.69	6.18	4.17	0	1
-4482	0.63	6.18	4.17	0	1	-4478	0.81	11.55	4.17	0	1	-4477	0.75	11.55	4.17	0	1
-4476	0.69	11.55	4.17	0	1	-4475	0.63	11.55	4.17	0	1	-4474	0.88	6.08	4.17	0	1
-4473	0.81	6.08	4.17	0	1	-4472	0.32	1.00	4.17	0	1	-4468	0.88	11.55	4.17	0	1
-4467	0.75	6.08	4.17	0	1	-4466	0.69	6.08	4.17	0	1	-4465	0.63	6.08	4.17	0	1
-4464	1.18	1.00	4.17	0	1	-4456	0.88	11.65	4.16	0	1	-4455	0.81	11.65	4.16	0	1
-4454	0.75	11.65	4.16	0	1	-4453	0.69	11.65	4.16	0	1	-4452	0.63	11.65	4.16	0	1
-4451	0.88	5.98	4.16	0	1	-4450	0.81	5.98	4.16	0	1	-4449	0.75	5.98	4.16	0	1
-4448	0.69	5.98	4.16	0	1	-4447	0.63	5.98	4.16	0	1	-4442	0.88	11.75	4.16	0	1
-4441	0.81	11.75	4.16	0	1	-4440	0.75	11.75	4.16	0	1	-4439	0.69	11.75	4.16	0	1
-4438	0.63	11.75	4.16	0	1	-4437	0.88	5.88	4.16	0	1	-4436	0.81	5.88	4.16	0	1
-4435	0.75	5.88	4.16	0	1	-4434	0.69	5.88	4.16	0	1	-4433	0.63	5.88	4.16	0	1
-4432	0.88	11.85	4.16	0	1	-4431	0.81	11.85	4.16	0	1	-4430	0.75	11.85	4.16	0	1
-4429	0.69	11.85	4.16	0	1	-4428	0.63	11.85	4.16	0	1	-4427	0.88	5.79	4.16	0	1
-4426	0.81	5.79	4.16	0	1	-4425	0.75	5.79	4.16	0	1	-4424	0.69	5.79	4.16	0	1
-4423	0.63	5.79	4.16	0	1	-4414	0.88	11.94	4.16	0	1	-4413	0.81	11.94	4.16	0	1
-4412	0.75	11.94	4.16	0	1	-4411	0.69	11.94	4.16	0	1	-4410	0.63	11.94	4.16	0	1
-4409	0.88	5.69	4.16	0	1	-4408	0.81	5.69	4.16	0	1	-4407	0.75	5.69	4.16	0	1
-4406	0.69	5.69	4.16	0	1	-4405	0.63	5.69	4.16	0	1	-4400	0.88	12.04	4.16	0	1
-4399	0.81	12.04	4.16	0	1	-4398	0.75	12.04	4.16	0	1	-4397	0.69	12.04	4.16	0	1
-4396	0.63	12.04	4.16	0	1	-4395	0.88	5.59	4.16	0	1	-4394	0.81	5.59	4.16	0	1
-4393	0.75	5.59	4.16	0	1	-4392	0.69	5.59	4.16	0	1	-4391	0.63	5.59	4.16	0	1
-4390	1.04	17.61	4.16	0	1	-4389	0.88	12.14	4.16	0	1	-4388	0.81	12.14	4.16	0	1
-4387	0.75	12.14	4.16	0	1	-4386	0.69	12.14	4.16	0	1	-4385	0.63	12.14	4.16	0	1
-4384	0.88	5.49	4.16	0	1	-4383	0.81	5.49	4.16	0	1	-4382	0.75	5.49	4.16	0	1
-4381	0.69	5.49	4.16	0	1	-4380	0.63	5.49	4.16	0	1	-4377	1.19	15.66	4.16	0	1
-4376	0.31	15.66	4.16	0	1	-4373	0.88	12.24	4.16	0	1	-4372	0.81	12.24	4.16	0	1
-4371	0.75	12.24	4.16	0	1	-4370	0.69	12.24	4.16	0	1	-4369	0.63	12.24	4.16	0	1
-4368	0.88	5.40	4.16	0	1	-4367	0.81	5.40	4.16	0	1	-4366	0.75	5.40	4.16	0	1
-4365	0.69	5.40	4.16	0	1	-4364	0.63	5.40	4.16	0	1	-4361	0.88	12.33	4.15	0	1
-4360	0.81	12.33	4.15	0	1	-4359	0.75	12.33	4.15	0	1	-4358	0.69	12.33	4.15	0	1
-4357	0.63	12.33	4.15	0	1	-4356	0.88	5.30	4.15	0	1	-4355	0.81	5.30	4.15	0	1
-4354	0.75	5.30	4.15	0	1	-4353	0.69	5.30	4.15	0	1	-4352	0.63	5.30	4.15	0	1
-4343	0.88	12.43	4.15	0	1	-4342	0.81	12.43	4.15	0	1	-4341	0.75	12.43	4.15	0	1
-4340	0.69	12.43	4.15	0	1	-4339	0.63	12.43	4.15	0	1	-4338	0.88	5.20	4.15	0	1
-4337	0.81	5.20	4.15	0	1	-4336	0.75	5.20	4.15	0	1	-4335	0.69	5.20	4.15	0	1
-4334	0.63	5.20	4.15	0	1	-4333	0.88	12.53	4.15	0	1	-4332	0.81	12.53	4.15	0	1
-4331	0.75	12.53	4.15	0	1	-4330	0.69	12.53	4.15	0	1	-4329	0.63	12.53	4.15	0	1
-4328	0.88	5.10	4.15	0	1	-4327	0.81	5.10	4.15	0	1	-4326	0.75	5.10	4.15	0	1
-4325	0.69	5.10	4.15	0	1	-4324	0.63	5.10	4.15	0	1	-4321	0.88	12.63	4.15	0	1
-4320	0.81	12.63	4.15	0	1	-4319	0.75	12.63	4.15	0	1	-4318	0.69	12.63	4.15	0	1
-4317	0.63	12.63	4.15	0	1	-4316	0.88	5.00	4.15	0	1	-4315	0.81	5.00	4.15	0	1
-4314	0.75	5.00	4.15	0	1	-4313	0.69	5.00	4.15	0	1	-4312	0.63	5.00	4.15	0	1
-4306	0.88	12.73	4.15	0	1	-4305	0.81	12.73	4.15	0	1	-4304	0.75	12.73	4.15	0	1
-4303	0.69	12.73	4.15	0	1	-4302	0.63	12.73	4.15	0	1	-4301	0.88	4.91	4.15	0	1
-4300	0.81	4.91	4.15	0	1	-4299	0.75	4.91	4.15	0	1	-4298	0.69	4.91	4.15	0	1
-4297	0.63	4.91	4.15	0	1	-4292	0.88	12.82	4.15	0	1	-4291	0.81	12.82	4.15	0	1
-4290	0.75	12.82	4.15	0	1	-4289	0.69	12.82	4.15	0	1	-4288	0.63	12.82	4.15	0	1
-4287	0.88	4.81	4.15	0	1	-4286	0.81	4.81	4.15	0	1	-4285	0.75	4.81	4.15	0	1
-4284	0.69	4.81	4.15	0	1	-4283	0.63	4.81	4.15	0	1	-4277	0.88	12.92	4.14	0	1
-4276	0.81	12.92	4.14	0	1	-4275	0.75	12.92	4.14	0	1	-4274	0.69	12.92	4.14	0	1
-4273	0.63	12.92	4.14	0	1	-4272	0.88	4.71	4.14	0	1	-4271	0.81	4.71	4.14	0	1
-4270	0.75	4.71	4.14	0	1	-4269	0.69	4.71	4.14	0	1	-4268	0.63	4.71	4.14	0	1
-4264	0.88	13.02	4.14	0	1	-4263	0.81	13.02	4.14	0	1	-4262	0.75	13.02	4.14	0	1
-4261	0.69	13.02	4.14	0	1	-4260	0.63	13.02	4.14	0	1	-4259	0.88	4.61	4.14	0	1
-4258	0.81	4.61	4.14	0	1	-4257	0.75	4.61	4.14	0	1	-4256	0.69	4.61	4.14	0	1
-4255	0.63	4.61	4.14	0	1	-4247	0.88	13.12	4.14	0	1	-4246	0.81	13.12	4.14	0	1
-4245	0.75	13.12	4.14	0	1	-4244	0.69	13.12	4.14	0	1	-4243	0.63	13.12	4.14	0	1
-4242	0.88	4.52	4.14	0	1	-4241	0.81	4.52	4.14	0	1	-4240	0.75	4.52	4.14	0	1
-4239	0.69	4.52	4.14	0	1	-4238	0.63	4.52	4.14	0	1	-4237	0.31	16.64	4.14	0	1
-4234	0.88	13.21	4.14	0	1	-4233	0.81	13.21	4.14	0	1	-4232	0.75	13.21	4.14	0	1
-4231	0.69	13.21	4.14	0	1	-4230	0.63	13.21	4.14	0	1	-4229	0.88	4.42	4.14	0	1
-4228	0.81	4.42	4.14	0	1	-4227	0.75	4.42	4.14	0	1	-4226	0.69	4.42	4.14	0	1
-4225	0.63	4.42	4.14	0	1	-4211	0.88	13.31	4.14	0	1	-4210	0.81	13.31	4.14	0	1
-4209	0.75	13.31	4.14	0	1	-4208	0.69	13.31	4.14	0	1	-4207	0.63	13.31	4.14	0	1
-4206	0.88	4.32	4.14	0	1	-4205	0.81	4.32	4.14	0	1	-4204	0.75	4.32	4.14	0	1
-4203	0.69	4.32	4.14	0	1	-4202	0.63	4.32	4.14	0	1	-4197	1.19	17.61	4.14	0	1
-4196	0.31	17.61	4.14	0	1	-4195	0.88	13.41	4.14	0	1	-4194	0.81	13.41	4.14	0	1
-4193	0.75	13.41	4.14	0	1	-4192	0.69	13.41	4.14	0	1	-4191	0.63	13.41	4.14	0	1
-4190	0.88	4.22	4.14	0	1	-4189	0.81	4.22	4.14	0	1	-4188	0.75	4.22	4.14	0	1
-4187	0.69	4.22	4.14	0	1	-4186	0.63	4.22	4.14	0	1	-4185	1.19	0.02	4.14	0	1
-4184	0.31	0.02	4.14	0	1	-4181	1.19	16.64	4.14	0	1	-4180	0.88	13.51	4.14	0	1
-4179	0.81	13.51	4.14	0	1	-4178	0.75	13.51	4.14	0	1	-4177	0.69	13.51	4.14	0	1
-4176	0.63	13.51	4.14	0	1	-4175	0.88	4.12	4.14	0	1	-4174	0.81	4.12	4.14	0	1
-4173	0.75	4.12	4.14	0	1	-4172	0.69	4.12	4.14	0	1	-4171	0.63	4.12	4.14	0	1
-4163	1.09	17.61	4.13	0	1	-4162	0.41	17.61	4.13	0	1	-4161	0.88	13.61	4.13	0	1
-4160	0.81	13.61	4.13	0	1	-4159	0.75	13.61	4.13	0	1	-4158	0.69	13.61	4.13	0	1



-4157	0.63	13.61	4.13	0	1	-4156	0.88	4.03	4.13	0	1	-4155	0.81	4.03	4.13	0	1
-4154	0.75	4.03	4.13	0	1	-4153	0.69	4.03	4.13	0	1	-4152	0.63	4.03	4.13	0	1
-4151	1.09	0.02	4.13	0	1	-4150	0.41	0.02	4.13	0	1	-4145	0.88	13.70	4.13	0	1
-4144	0.81	13.70	4.13	0	1	-4143	0.75	13.70	4.13	0	1	-4142	0.69	13.70	4.13	0	1
-4141	0.63	13.70	4.13	0	1	-4140	0.88	3.93	4.13	0	1	-4139	0.81	3.93	4.13	0	1
-4138	0.75	3.93	4.13	0	1	-4137	0.69	3.93	4.13	0	1	-4136	0.63	3.93	4.13	0	1
-4135	0.88	13.80	4.13	0	1	-4134	0.81	13.80	4.13	0	1	-4133	0.75	13.80	4.13	0	1
-4132	0.69	13.80	4.13	0	1	-4131	0.63	13.80	4.13	0	1	-4130	0.88	3.83	4.13	0	1
-4129	0.81	3.83	4.13	0	1	-4128	0.75	3.83	4.13	0	1	-4127	0.69	3.83	4.13	0	1
-4126	0.63	3.83	4.13	0	1	-4115	0.88	13.90	4.13	0	1	-4114	0.81	13.90	4.13	0	1
-4113	0.75	13.90	4.13	0	1	-4112	0.69	13.90	4.13	0	1	-4111	0.63	13.90	4.13	0	1
-4110	0.88	3.73	4.13	0	1	-4109	0.81	3.73	4.13	0	1	-4108	0.75	3.73	4.13	0	1
-4107	0.69	3.73	4.13	0	1	-4106	0.63	3.73	4.13	0	1	-4103	0.88	14.00	4.13	0	1
-4102	0.81	14.00	4.13	0	1	-4101	0.75	14.00	4.13	0	1	-4100	0.69	14.00	4.13	0	1
-4099	0.63	14.00	4.13	0	1	-4098	0.88	3.64	4.13	0	1	-4097	0.81	3.64	4.13	0	1
-4096	0.75	3.64	4.13	0	1	-4095	0.69	3.64	4.13	0	1	-4094	0.63	3.64	4.13	0	1
-4088	0.88	14.09	4.13	0	1	-4087	0.81	14.09	4.13	0	1	-4086	0.75	14.09	4.13	0	1
-4085	0.69	14.09	4.13	0	1	-4084	0.63	14.09	4.13	0	1	-4083	0.88	3.54	4.13	0	1
-4082	0.81	3.54	4.13	0	1	-4081	0.75	3.54	4.13	0	1	-4080	0.69	3.54	4.13	0	1
-4079	0.63	3.54	4.13	0	1	-4078	0.88	14.19	4.12	0	1	-4077	0.81	14.19	4.12	0	1
-4076	0.75	14.19	4.12	0	1	-4075	0.69	14.19	4.12	0	1	-4074	0.63	14.19	4.12	0	1
-4073	0.88	3.44	4.12	0	1	-4072	0.81	3.44	4.12	0	1	-4071	0.75	3.44	4.12	0	1
-4070	0.69	3.44	4.12	0	1	-4069	0.63	3.44	4.12	0	1	-4064	0.88	14.29	4.12	0	1
-4063	0.81	14.29	4.12	0	1	-4062	0.75	14.29	4.12	0	1	-4061	0.69	14.29	4.12	0	1
-4060	0.63	14.29	4.12	0	1	-4059	0.88	3.34	4.12	0	1	-4058	0.81	3.34	4.12	0	1
-4057	0.75	3.34	4.12	0	1	-4056	0.69	3.34	4.12	0	1	-4055	0.63	3.34	4.12	0	1
-4049	0.88	14.39	4.12	0	1	-4048	0.81	14.39	4.12	0	1	-4047	0.75	14.39	4.12	0	1
-4046	0.69	14.39	4.12	0	1	-4045	0.63	14.39	4.12	0	1	-4044	0.88	3.25	4.12	0	1
-4043	0.81	3.25	4.12	0	1	-4042	0.75	3.25	4.12	0	1	-4041	0.69	3.25	4.12	0	1
-4040	0.63	3.25	4.12	0	1	-4030	0.88	14.48	4.12	0	1	-4029	0.81	14.48	4.12	0	1
-4028	0.75	14.48	4.12	0	1	-4027	0.69	14.48	4.12	0	1	-4026	0.63	14.48	4.12	0	1
-4025	0.88	3.15	4.12	0	1	-4024	0.81	3.15	4.12	0	1	-4023	0.75	3.15	4.12	0	1
-4022	0.69	3.15	4.12	0	1	-4021	0.63	3.15	4.12	0	1	-4013	0.88	14.58	4.12	0	1
-4012	0.81	14.58	4.12	0	1	-4011	0.75	14.58	4.12	0	1	-4010	0.69	14.58	4.12	0	1
-4009	0.63	14.58	4.12	0	1	-4008	0.88	3.05	4.12	0	1	-4007	0.81	3.05	4.12	0	1
-4006	0.75	3.05	4.12	0	1	-4005	0.69	3.05	4.12	0	1	-4004	0.63	3.05	4.12	0	1
-3998	0.88	14.68	4.12	0	1	-3997	0.81	14.68	4.12	0	1	-3996	0.75	14.68	4.12	0	1
-3995	0.69	14.68	4.12	0	1	-3994	0.63	14.68	4.12	0	1	-3993	0.88	2.95	4.12	0	1
-3992	0.81	2.95	4.12	0	1	-3991	0.75	2.95	4.12	0	1	-3990	0.69	2.95	4.12	0	1
-3989	0.63	2.95	4.12	0	1	-3979	0.88	14.78	4.12	0	1	-3978	0.81	14.78	4.12	0	1
-3977	0.75	14.78	4.12	0	1	-3976	0.69	14.78	4.12	0	1	-3975	0.63	14.78	4.12	0	1
-3974	0.88	2.85	4.12	0	1	-3973	0.81	2.85	4.12	0	1	-3972	0.75	2.85	4.12	0	1
-3971	0.69	2.85	4.12	0	1	-3970	0.63	2.85	4.12	0	1	-3968	0.88	14.88	4.11	0	1
-3967	0.75	14.88	4.11	0	1	-3966	0.69	14.88	4.11	0	1	-3965	0.63	2.76	4.11	0	1
-3961	0.81	14.88	4.11	0	1	-3960	0.88	2.76	4.11	0	1	-3959	0.81	2.76	4.11	0	1
-3953	0.63	14.88	4.11	0	1	-3952	0.75	2.76	4.11	0	1	-3951	0.69	2.76	4.11	0	1
-3942	0.88	14.97	4.11	0	1	-3941	0.81	14.97	4.11	0	1	-3940	0.75	14.97	4.11	0	1
-3939	0.69	14.97	4.11	0	1	-3938	0.63	14.97	4.11	0	1	-3937	0.88	2.66	4.11	0	1
-3936	0.81	2.66	4.11	0	1	-3935	0.75	2.66	4.11	0	1	-3934	0.69	2.66	4.11	0	1
-3933	0.63	2.66	4.11	0	1	-3932	0.88	15.07	4.11	0	1	-3931	0.81	15.07	4.11	0	1
-3930	0.75	15.07	4.11	0	1	-3929	0.69	15.07	4.11	0	1	-3928	0.63	15.07	4.11	0	1
-3927	0.88	2.56	4.11	0	1	-3926	0.81	2.56	4.11	0	1	-3925	0.75	2.56	4.11	0	1
-3924	0.69	2.56	4.11	0	1	-3923	0.63	2.56	4.11	0	1	-3920	0.88	15.17	4.11	0	1
-3919	0.81	15.17	4.11	0	1	-3918	0.75	15.17	4.11	0	1	-3917	0.69	15.17	4.11	0	1
-3916	0.63	15.17	4.11	0	1	-3915	0.88	2.46	4.11	0	1	-3914	0.81	2.46	4.11	0	1
-3913	0.75	2.46	4.11	0	1	-3912	0.69	2.46	4.11	0	1	-3911	0.63	2.46	4.11	0	1
-3898	0.88	15.27	4.11	0	1	-3897	0.81	15.27	4.11	0	1	-3896	0.75	15.27	4.11	0	1
-3895	0.69	15.27	4.11	0	1	-3894	0.63	15.27	4.11	0	1	-3893	0.88	2.37	4.11	0	1
-3892	0.81	2.37	4.11	0	1	-3891	0.75	2.37	4.11	0	1	-3890	0.69	2.37	4.11	0	1
-3889	0.63	2.37	4.11	0	1	-3869	0.88	15.36	4.11	0	1	-3868	0.81	15.36	4.11	0	1
-3867	0.75	15.36	4.11	0	1	-3866	0.69	15.36	4.11	0	1	-3865	0.63	15.36	4.11	0	1
-3864	0.88	2.27	4.11	0	1	-3863	0.81	2.27	4.11	0	1	-3862	0.75	2.27	4.11	0	1
-3861	0.69	2.27	4.11	0	1	-3860	0.63	2.27	4.11	0	1	-3853	0.88	15.46	4.10	0	1
-3852	0.81	15.46	4.10	0	1	-3851	0.75	15.46	4.10	0	1	-3850	0.69	15.46	4.10	0	1
-3849	0.63	15.46	4.10	0	1	-3848	0.88	2.17	4.10	0	1	-3847	0.81	2.17	4.10	0	1
-3846	0.75	2.17	4.10	0	1	-3845	0.69	2.17	4.10	0	1	-3844	0.63	2.17	4.10	0	1
-3836	0.88	15.56	4.10	0	1	-3835	0.81	15.56	4.10	0	1	-3834	0.75	15.56	4.10	0	1
-3833	0.69	15.56	4.10	0	1	-3832	0.63	15.56	4.10	0	1	-3831	0.88	2.07	4.10	0	1
-3830	0.81	2.07	4.10	0	1	-3829	0.75	2.07	4.10	0	1	-3828	0.69	2.07	4.10	0	1
-3827	0.63	2.07	4.10	0	1	-3822	0.88	15.66	4.10	0	1	-3821	0.81	15.66	4.10	0	1
-3820	0.75	15.66	4.10	0	1	-3819	0.69	15.66	4.10	0	1	-3818	0.63	15.66	4.10	0	1
-3817	0.88	1.97	4.10	0	1	-3816	0.81	1.97	4.10	0	1	-3815	0.75	1.97	4.10	0	1
-3814	0.69	1.97	4.10	0	1	-3813	0.63	1.97	4.10	0	1	-3804	0.88	15.76	4.10	0	1
-3803	0.81	15.76	4.10	0	1	-3802	0.75	15.76	4.10	0	1	-3801	0.69	15.76	4.10	0	1
-3800	0.63	15.76	4.10	0	1	-3799	0.88	1.88	4.10	0	1	-3798	0.81	1.88	4.10	0	1
-3797	0.75	1.88	4.10	0	1	-3796	0.69	1.88	4.10	0	1	-3795	0.63	1.88	4.10	0	1
-3793	0.88	15.85	4.10	0	1	-3792	0.81	15.85	4.10	0	1	-3791	0.75	15.85	4.10	0	1
-3790	0.69	15.85	4.10	0	1	-3789	0.63	15.85	4.10	0	1	-3788	0.88	1.78	4.10	0	1
-3787	0.81	1.78	4.10	0	1	-3786	0.75	1.78	4.10	0	1	-3785	0.69	1.78	4.10	0	1

-3784	0.63	1.78	4.10	0	1	-3779	0.88	15.95	4.10	0	1	-3778	0.81	15.95	4.10	0	1
-3777	0.75	15.95	4.10	0	1	-3776	0.69	15.95	4.10	0	1	-3775	0.63	15.95	4.10	0	1
-3774	0.88	1.68	4.10	0	1	-3773	0.81	1.68	4.10	0	1	-3772	0.75	1.68	4.10	0	1
-3771	0.69	1.68	4.10	0	1	-3770	0.63	1.68	4.10	0	1	-3759	0.88	16.05	4.09	0	1
-3758	0.81	16.05	4.09	0	1	-3757	0.75	16.05	4.09	0	1	-3756	0.69	16.05	4.09	0	1
-3755	0.63	16.05	4.09	0	1	-3754	0.88	1.58	4.09	0	1	-3753	0.81	1.58	4.09	0	1
-3752	0.75	1.58	4.09	0	1	-3751	0.69	1.58	4.09	0	1	-3750	0.63	1.58	4.09	0	1
-3743	0.88	16.15	4.09	0	1	-3742	0.81	16.15	4.09	0	1	-3741	0.75	16.15	4.09	0	1
-3740	0.69	16.15	4.09	0	1	-3739	0.63	16.15	4.09	0	1	-3738	0.88	1.49	4.09	0	1
-3737	0.81	1.49	4.09	0	1	-3736	0.75	1.49	4.09	0	1	-3735	0.69	1.49	4.09	0	1
-3734	0.63	1.49	4.09	0	1	-3725	0.88	16.24	4.09	0	1	-3724	0.81	16.24	4.09	0	1
-3723	0.75	16.24	4.09	0	1	-3722	0.69	16.24	4.09	0	1	-3721	0.75	1.39	4.09	0	1
-3717	0.63	16.24	4.09	0	1	-3716	0.88	1.39	4.09	0	1	-3715	0.81	1.39	4.09	0	1
-3714	0.69	1.39	4.09	0	1	-3713	0.63	1.39	4.09	0	1	-3709	0.88	16.34	4.09	0	1
-3708	0.81	16.34	4.09	0	1	-3707	0.75	16.34	4.09	0	1	-3706	0.69	16.34	4.09	0	1
-3705	0.63	16.34	4.09	0	1	-3704	0.88	1.29	4.09	0	1	-3703	0.81	1.29	4.09	0	1
-3702	0.75	1.29	4.09	0	1	-3701	0.69	1.29	4.09	0	1	-3700	0.63	1.29	4.09	0	1
-3691	1.21	17.61	4.09	0	1	-3690	0.29	17.61	4.09	0	1	-3689	0.88	16.44	4.09	0	1
-3688	0.81	16.44	4.09	0	1	-3687	0.75	16.44	4.09	0	1	-3686	0.69	16.44	4.09	0	1
-3685	0.63	16.44	4.09	0	1	-3684	0.88	1.19	4.09	0	1	-3683	0.81	1.19	4.09	0	1
-3682	0.75	1.19	4.09	0	1	-3681	0.69	1.19	4.09	0	1	-3680	0.63	1.19	4.09	0	1
-3679	1.21	0.02	4.09	0	1	-3678	0.29	0.02	4.09	0	1	-3677	0.75	16.54	4.09	0	1
-3672	0.88	16.54	4.09	0	1	-3671	0.81	16.54	4.09	0	1	-3670	0.69	16.54	4.09	0	1
-3669	0.63	16.54	4.09	0	1	-3668	0.88	1.10	4.09	0	1	-3667	0.75	1.10	4.09	0	1
-3666	0.69	1.10	4.09	0	1	-3661	0.81	1.10	4.09	0	1	-3660	0.63	1.10	4.09	0	1
-3650	1.05	17.61	4.09	0	1	-3649	0.88	16.64	4.09	0	1	-3648	0.81	16.64	4.09	0	1
-3647	0.75	16.64	4.09	0	1	-3646	0.69	16.64	4.09	0	1	-3645	0.63	16.64	4.09	0	1
-3644	0.88	1.00	4.09	0	1	-3643	0.81	1.00	4.09	0	1	-3642	0.75	1.00	4.09	0	1
-3641	0.69	1.00	4.09	0	1	-3640	0.63	1.00	4.09	0	1	-3631	0.88	16.73	4.08	0	1
-3630	0.81	16.73	4.08	0	1	-3629	0.75	16.73	4.08	0	1	-3628	0.69	16.73	4.08	0	1
-3627	0.63	16.73	4.08	0	1	-3626	0.88	0.90	4.08	0	1	-3625	0.81	0.90	4.08	0	1
-3624	0.75	0.90	4.08	0	1	-3623	0.69	0.90	4.08	0	1	-3622	0.63	0.90	4.08	0	1
-3621	0.88	16.83	4.08	0	1	-3620	0.81	16.83	4.08	0	1	-3619	0.75	16.83	4.08	0	1
-3618	0.69	16.83	4.08	0	1	-3617	0.63	16.83	4.08	0	1	-3616	0.88	0.80	4.08	0	1
-3615	0.81	0.80	4.08	0	1	-3614	0.75	0.80	4.08	0	1	-3613	0.69	0.80	4.08	0	1
-3612	0.63	0.80	4.08	0	1	-3601	0.88	16.93	4.08	0	1	-3600	0.81	16.93	4.08	0	1
-3599	0.75	16.93	4.08	0	1	-3598	0.69	16.93	4.08	0	1	-3597	0.63	16.93	4.08	0	1
-3596	0.88	0.70	4.08	0	1	-3595	0.81	0.70	4.08	0	1	-3594	0.75	0.70	4.08	0	1
-3593	0.69	0.70	4.08	0	1	-3592	0.63	0.70	4.08	0	1	-3582	0.88	17.03	4.08	0	1
-3581	0.81	17.03	4.08	0	1	-3580	0.75	17.03	4.08	0	1	-3579	0.69	17.03	4.08	0	1
-3578	0.63	17.03	4.08	0	1	-3577	0.88	0.61	4.08	0	1	-3576	0.81	0.61	4.08	0	1
-3575	0.75	0.61	4.08	0	1	-3574	0.69	0.61	4.08	0	1	-3573	0.63	0.61	4.08	0	1
-3566	0.88	17.12	4.08	0	1	-3565	0.81	17.12	4.08	0	1	-3564	0.75	17.12	4.08	0	1
-3563	0.69	17.12	4.08	0	1	-3562	0.63	17.12	4.08	0	1	-3561	0.81	0.51	4.08	0	1
-3560	0.69	0.51	4.08	0	1	-3554	0.88	0.51	4.08	0	1	-3553	0.75	0.51	4.08	0	1
-3552	0.63	0.51	4.08	0	1	-3551	0.75	0.41	4.08	0	1	-3546	0.88	17.22	4.08	0	1
-3545	0.81	17.22	4.08	0	1	-3544	0.75	17.22	4.08	0	1	-3543	0.69	17.22	4.08	0	1
-3542	0.63	17.22	4.08	0	1	-3541	0.88	0.41	4.08	0	1	-3540	0.81	0.41	4.08	0	1
-3539	0.69	0.41	4.08	0	1	-3538	0.63	0.41	4.08	0	1	-3535	0.88	17.32	4.07	0	1
-3534	0.81	17.32	4.07	0	1	-3533	0.75	17.32	4.07	0	1	-3532	0.69	17.32	4.07	0	1
-3531	0.63	17.32	4.07	0	1	-3530	0.88	0.31	4.07	0	1	-3529	0.81	0.31	4.07	0	1
-3528	0.75	0.31	4.07	0	1	-3527	0.69	0.31	4.07	0	1	-3526	0.63	0.31	4.07	0	1
-3516	0.88	17.42	4.07	0	1	-3515	0.81	17.42	4.07	0	1	-3514	0.75	17.42	4.07	0	1
-3513	0.69	17.42	4.07	0	1	-3512	0.63	17.42	4.07	0	1	-3511	0.88	0.22	4.07	0	1
-3510	0.81	0.22	4.07	0	1	-3509	0.75	0.22	4.07	0	1	-3508	0.69	0.22	4.07	0	1
-3507	0.63	0.22	4.07	0	1	-3506	0.99	17.61	4.07	0	1	-3505	0.51	17.61	4.07	0	1
-3504	0.88	17.51	4.07	0	1	-3503	0.81	17.51	4.07	0	1	-3502	0.75	17.51	4.07	0	1
-3501	0.69	17.51	4.07	0	1	-3500	0.63	17.51	4.07	0	1	-3499	0.88	0.12	4.07	0	1
-3498	0.81	0.12	4.07	0	1	-3497	0.75	0.12	4.07	0	1	-3496	0.69	0.12	4.07	0	1
-3495	0.63	0.12	4.07	0	1	-3491	1.11	17.61	4.07	0	1	-3490	0.88	17.61	4.07	0	1
-3489	0.81	17.61	4.07	0	1	-3488	0.75	17.61	4.07	0	1	-3487	0.69	17.61	4.07	0	1
-3486	0.63	17.61	4.07	0	1	-3485	0.39	17.61	4.07	0	1	-3484	1.11	0.02	4.07	0	1
-3483	0.88	0.02	4.07	0	1	-3482	0.81	0.02	4.07	0	1	-3481	0.75	0.02	4.07	0	1
-3480	0.69	0.02	4.07	0	1	-3479	0.63	0.02	4.07	0	1	-3478	0.39	0.02	4.07	0	1
-3434	0.93	17.61	4.06	0	1	-3433	0.57	17.61	4.06	0	1	-3432	0.93	0.02	4.06	0	1
-3431	0.57	0.02	4.06	0	1	-3387	0.99	0.02	4.05	0	1	-3386	0.51	0.02	4.05	0	1
-3353	1.24	17.61	4.04	0	1	-3352	0.26	17.61	4.04	0	1	-3351	1.24	0.02	4.04	0	1
-3350	0.26	0.02	4.04	0	1	-3297	0.88	17.61	4.03	0	1	-3296	0.81	17.61	4.03	0	1
-3295	0.75	17.61	4.03	0	1	-3294	0.69	17.61	4.03	0	1	-3293	0.62	17.61	4.03	0	1
-3292	0.88	0.02	4.03	0	1	-3291	0.81	0.02	4.03	0	1	-3290	0.75	0.02	4.03	0	1
-3289	0.69	0.02	4.03	0	1	-3288	0.62	0.02	4.03	0	1	-3266	0.94	17.61	4.03	0	1
-3265	0.56	17.61	4.03	0	1	-3264	0.94	0.02	4.03	0	1	-3263	0.56	0.02	4.03	0	1
-3248	1.00	17.61	4.02	0	1	-3247	0.50	17.61	4.02	0	1	-3246	1.00	0.02	4.02	0	1
-3245	0.50	0.02	4.02	0	1	-3219	1.07	17.61	4.01	0	1	-3180	1.13	17.61	4.01	0	1
-3179	0.37	17.61	4.01	0	1	-3178	1.13	0.02	4.01	0	1	-3177	0.37	0.02	4.01	0	1
-3127	1.26	17.61	3.99	0	1	-3126	0.24	17.61	3.99	0	1	-3125	1.26	0.02	3.99	0	1
-3124	0.24	0.02	3.99	0	1	-3104	1.33	8.82	3.99	0	1	-3103	0.17	8.82	3.99	0	1
-3097	1.32	9.79	3.99	0	1	-3096	0.18	9.79	3.99	0	1	-3095	1.32	7.84	3.99	0	1
-3094	0.18	7.84	3.99	0	1	-3073	1.32	10.77	3.98	0	1	-3072	0.18	10.77	3.98	0	1

-3071	1.32	6.86	3.98	0	1	-3070	0.18	6.86	3.98	0	1	-3059	1.31	11.75	3.98	0	1
-3058	0.19	11.75	3.98	0	1	-3057	1.31	5.88	3.98	0	1	-3056	0.19	5.88	3.98	0	1
-3046	1.31	12.73	3.98	0	1	-3045	0.19	12.73	3.98	0	1	-3044	1.31	4.91	3.98	0	1
-3043	0.19	4.91	3.98	0	1	-3029	1.30	13.70	3.97	0	1	-3028	0.20	13.70	3.97	0	1
-3027	1.30	3.93	3.97	0	1	-3026	0.20	3.93	3.97	0	1	-3013	1.29	14.68	3.97	0	1
-3012	0.21	14.68	3.97	0	1	-3011	1.29	2.95	3.97	0	1	-3010	0.21	2.95	3.97	0	1
-3007	1.29	15.66	3.97	0	1	-3006	0.21	15.66	3.97	0	1	-3005	0.21	1.97	3.97	0	1
-2998	1.29	1.97	3.97	0	1	-2997	1.28	16.64	3.96	0	1	-2996	0.22	16.64	3.96	0	1
-2995	1.28	1.00	3.96	0	1	-2994	0.22	1.00	3.96	0	1	-2946	1.28	17.61	3.95	0	1
-2945	0.22	17.61	3.95	0	1	-2944	1.28	0.02	3.95	0	1	-2943	1.15	0.02	3.95	0	1
-2942	1.01	0.02	3.95	0	1	-2941	0.95	0.02	3.95	0	1	-2940	0.88	0.02	3.95	0	1
-2939	0.82	0.02	3.95	0	1	-2938	0.75	0.02	3.95	0	1	-2937	0.68	0.02	3.95	0	1
-2936	0.62	0.02	3.95	0	1	-2935	0.55	0.02	3.95	0	1	-2934	0.49	0.02	3.95	0	1
-2933	0.35	0.02	3.95	0	1	-2932	0.22	0.02	3.95	0	1	-2925	1.15	17.61	3.94	0	1
-2924	1.08	17.61	3.94	0	1	-2923	1.01	17.61	3.94	0	1	-2922	0.95	17.61	3.94	0	1
-2921	0.88	17.61	3.94	0	1	-2920	0.82	17.61	3.94	0	1	-2919	0.75	17.61	3.94	0	1
-2918	0.68	17.61	3.94	0	1	-2917	0.62	17.61	3.94	0	1	-2916	0.55	17.61	3.94	0	1
-2915	0.49	17.61	3.94	0	1	-2914	0.35	17.61	3.94	0	1	-2727	1.32	17.61	3.86	0	1
-2726	0.17	17.61	3.86	0	1	-2704	1.33	0.02	3.85	0	1	-2703	0.17	0.02	3.85	0	1
-2665	1.35	16.64	3.83	0	1	-2664	0.15	16.64	3.83	0	1	-2663	1.35	1.00	3.83	0	1
-2662	0.15	1.00	3.83	0	1	-2602	1.37	15.66	3.80	0	1	-2601	0.13	15.66	3.80	0	1
-2600	1.37	1.97	3.80	0	1	-2599	0.13	1.97	3.80	0	1	-2571	1.39	14.68	3.77	0	1
-2570	0.11	14.68	3.77	0	1	-2569	1.39	2.95	3.77	0	1	-2568	0.11	2.95	3.77	0	1
-2559	1.41	13.70	3.75	0	1	-2558	0.09	13.70	3.75	0	1	-2557	1.41	3.93	3.75	0	1
-2556	0.09	3.93	3.75	0	1	-2551	1.43	12.73	3.72	0	1	-2550	0.07	12.73	3.72	0	1
-2549	1.43	4.91	3.72	0	1	-2548	0.07	4.91	3.72	0	1	-2530	1.41	16.64	3.70	0	1
-2529	0.09	16.64	3.70	0	1	-2528	1.45	11.75	3.70	0	1	-2527	0.05	11.75	3.70	0	1
-2526	1.45	5.88	3.70	0	1	-2525	0.05	5.88	3.70	0	1	-2524	1.41	1.00	3.70	0	1
-2523	0.09	1.00	3.70	0	1	-2519	1.47	10.77	3.68	0	1	-2518	0.03	10.77	3.68	0	1
-2517	1.47	6.86	3.68	0	1	-2516	0.03	6.86	3.68	0	1	-2513	1.48	9.79	3.68	0	1
-2512	0.02	9.79	3.68	0	1	-2511	1.48	7.84	3.68	0	1	-2510	0.02	7.84	3.68	0	1
-2501	1.49	8.82	3.67	0	1	-2500	0.01	8.82	3.67	0	1	-2492	1.45	15.66	3.64	0	1
-2491	0.05	15.66	3.64	0	1	-2490	1.45	1.97	3.64	0	1	-2489	0.05	1.97	3.64	0	1
-2482	1.49	14.68	3.57	0	1	-2481	0.01	14.68	3.57	0	1	-2480	1.49	2.95	3.57	0	1
-2479	0.01	2.95	3.57	0	1	-2475	1.52	13.70	3.52	0	1	-2474	-0.02	13.70	3.52	0	1
-2473	1.52	3.93	3.52	0	1	-2472	-0.02	3.93	3.52	0	1	-2462	1.55	12.73	3.47	0	1
-2461	-0.05	12.73	3.47	0	1	-2460	1.55	4.91	3.47	0	1	-2459	-0.05	4.91	3.47	0	1
-2436	1.59	11.75	3.42	0	1	-2435	-0.09	11.75	3.42	0	1	-2434	1.59	5.88	3.42	0	1
-2433	-0.09	5.88	3.42	0	1	-2431	1.61	10.77	3.40	0	1	-2430	-0.11	10.77	3.40	0	1
-2429	1.61	6.86	3.40	0	1	-2428	-0.11	6.86	3.40	0	1	-2423	1.62	9.79	3.39	0	1
-2422	-0.12	9.79	3.39	0	1	-2421	1.62	7.84	3.38	0	1	-2420	-0.12	7.84	3.38	0	1
-2418	1.64	8.82	3.37	0	1	-2417	-0.14	8.82	3.37	0	1	2108	0.13	0.02	3.67	0	2
2109	1.37	0.02	3.67	0	8	2212	0.13	17.61	3.70	0	9	2213	1.37	17.61	3.70	0	10
2308	0.13	0.02	3.77	0	1	2309	1.37	0.02	3.77	0	1	2312	0.13	17.61	3.77	0	1
2313	1.37	17.61	3.77	0	1	2810	0.31	13.70	4.19	0	1	2811	1.19	13.70	4.19	0	1
3001	0.31	9.79	4.25	0	1	3110	0.30	13.70	4.28	0	1	3111	1.20	13.70	4.28	0	1
3201	0.30	9.79	4.33	0	1	3501	0.50	0.02	4.52	0	1	3502	1.00	0.02	4.52	0	1
3503	0.50	17.61	4.52	0	1	3504	1.00	17.61	4.52	0	1						

## Elenco materiali

### Simbologia

Mat. = Numero del materiale

Comm. = Commento

P = Peso specifico

E = Modulo elastico

G = Modulo elastico tangenziale

v = Coeff. di Poisson

α = Coeff. di dilatazione termica

Mat.	Comm.	P <daN/mc>	E <daN/cm²>	G <daN/cm²>	v	α
5	Calcestruzzo classe C25/30	2500	314472.00	142942.00	0.1	1.000000E-05
6	Calcestruzzo classe C28/35	2500	325881.00	148128.00	0.1	1.000000E-05
18	Acciaio	7850	2100000.00	800000.00	0.3	1.200000E-05
22	Calcestruzzo pila 1-4 (fuori alveo)	2500	269950.00	122700.00	0.1	1.000000E-05
23	Calcestruzzo pila 2 (in alveo lato via Ciari)	2500	312750.00	142160.00	0.1	1.000000E-05
24	Calcestruzzo pila 3 (in alveo lato via Trento)	2500	324490.00	147500.00	0.1	1.000000E-05
25	Calcestruzzo rampa via Ciari	2500	311900.00	141770.00	0.1	1.000000E-05
26	Calcestruzzo rampa via Trento	2500	281580.00	127990.00	0.1	1.000000E-05
27	Calcestruzzo travi impalcato	2500	324140.00	147340.00	0.1	1.000000E-05

## Elenco sezioni aste

### Simbologia

Sez. = Numero della sezione

Comm. = Commento

Tipo = Tipologia

2C = Doppia C lato labbri

2Cdx = Doppia C lato costola  
 2I = Doppia I  
 2L = Doppia L lato labbri  
 2Ldx = Doppia L lato costole  
 C = Sezione a C  
 Cdx = C destra  
 Cir. = Circolare  
 Cir.c = Circolare cava  
 I = Sezione a I  
 L = Sezione a L  
 Ldx = L destra  
 Om. = Omega  
 Pg = Pi greco  
 Pr = Poligono regolare  
 Prc = Poligono regolare cavo  
 Pc = Per coordinate  
 Ia = Inerzie assegnate  
 R = Rettangolare  
 Rc = Rettangolare cava  
 T = Sezione a T  
 U = Sezione a U  
 Ur = U rovescia  
 V = Sezione a V  
 Vr = V rovescia  
 Z = Sezione a Z  
 Zdx = Z destra  
 Ts = T stondata  
 Ls = L stondata  
 Cs = C stondata  
 Is = I stondata  
 Dis. = Disegnata

Mem. = Membratura

G = Generica  
 T = Trave  
 P = Pilastro

Ver. = Verifica prevista

N = Nessuna  
 C = Cemento armato  
 A = Acciaio  
 L = Legno

B = Base

H = Altezza

s = Spessore ala

r = Raggio raccordo anima-ala

rl = Raggio in testa ala

D = Distanza

R = Raggio

Ma = Numero del materiale

C = Numero del criterio di progetto

Crit. C.I. = Criterio di progetto collegamento iniziale

Crit. C.F. = Criterio di progetto collegamento finale

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	H <cm>	s <cm>	r <cm>	s <cm>	rl <cm>	D <cm>	R <cm>	Ma	C	Crit. C.I.	Crit. C.F.
28	Appoggio travi - 80x120	R	P	A	8.00	12.00									181	6
31	Tubo circolare d=114.3x6 mm - S355	Cir.c	T	A					0.60			5.71	183		6	6
32	Tubo 60x80x5 mm - S355	Rc	T	A	6.00	8.00			0.50				183		6	6
33	Tubo 60x100x5 mm - S355	Rc	T	A	6.00	10.00			0.50				183		6	6
34	Tubo 80x120x5 mm - S355	Rc	T	A	8.00	12.00			0.50				183		6	6
35	2 L80x60x8 - dist 6 mm - S275	2Ldx	T	A	8.00	6.00	0.80	1.10		0.45	0.60		181		6	6
36	Nervatura 50x6 mm - S275	Ts	T	A	5.00	5.00	0.60	0.10		0.00		0.10	181		6	6
37	2 L80x60x8 - dist 6 mm - S275	2Ldx	T	A	8.00	6.00	0.80	1.10		0.45	0.60		181		6	6
38	Tubo 80x80x4 mm - S235	Rc	T	A	8.00	8.00			0.40				182		6	6
39	Tubo circolare d=70x4 mm - S355	Cir.c	T	A					0.40			3.50	183		6	6
47	2 L80x60x8 - dist 6 mm - S275	2Ldx	T	A	8.00	6.00	0.80	1.10		0.45	0.60		181		6	6
48	Tubo circolare d=101.6x6 mm - S355	Cir.c	T	A					0.60			5.08	183		6	6
50	Tubo circolare d=90x4 mm - S355	Cir.c	T	A					0.40			4.50	183		6	6
52	T 80x80x6 mm - S275	Ts	T	A	8.00	8.00	0.60	0.10		0.00		0.10	181		6	6
53	Tubo 60x60x4 mm - S235	Rc	T	A	6.00	6.00			0.40				182		6	6
54	L80x8 mm - S275	Ls	T	A	8.00	8.00	0.80	1.00		0.50			181		6	6
57	Appoggio travi - 120x10	R	P	A	12.00	1.00							181		6	6
59	Tubo circolare d=139.7x6 mm - S355	Cir.c	T	A					0.60			6.99	183		6	6
61	Tubo 60x120x4 mm - S235	Rc	T	A	6.00	12.00			0.40				182		6	6
68	Tubo 80x100x(2x5+6) mm - S355 (32)	Rc	T	A	8.00	10.00			0.80				183		6	6

## Elenco vincoli aste

### Simbologia

Va = Numero del vincolo asta

Comm. = Commento

Tipo = Tipologia

SVI = Definizione di vincolamenti interni

ELA = Vincolo su suolo elastico alla Winkler

BIE-RTC = Biella resistente a trazione e a compressione

BIE-RC = Biella resistente solo a compressione

BIE-RT = Biella resistente solo a trazione

Ni = Sforzo normale nodo iniziale (0=sbloccato, 1=bloccato)  
 Tyi = Taglio in dir. Y locale nodo iniziale (0=sbloccato, 1=bloccato)  
 Tzi = Taglio in dir. Z locale nodo iniziale (0=sbloccato, 1=bloccato)  
 Mxi = Momento intorno all'asse X locale nodo iniziale (0=sbloccato, 1=bloccato)  
 Myi = Momento intorno all'asse Y locale nodo iniziale (0=sbloccato, 1=bloccato)  
 Mzi = Momento intorno all'asse Z locale nodo iniziale (0=sbloccato, 1=bloccato)  
 Nf = Sforzo normale nodo finale (0=sbloccato, 1=bloccato)  
 Tyf = Taglio in dir. Y locale nodo finale (0=sbloccato, 1=bloccato)  
 Tzf = Taglio in dir. Z locale nodo finale (0=sbloccato, 1=bloccato)  
 Mxf = Momento intorno all'asse X locale nodo finale (0=sbloccato, 1=bloccato)  
 Myf = Momento intorno all'asse Y locale nodo finale (0=sbloccato, 1=bloccato)  
 Mzf = Momento intorno all'asse Z locale nodo finale (0=sbloccato, 1=bloccato)  
 Kt = Coeff. di sottofondo su suolo elastico alla Winkler

Va	Comm.	Tipo	Ni	Tyi	Tzi	Mxi	Myi	Mzi	Nf	Tyf	Tzf	Mxf	Myf	Mzf	Kt
															<daN/cmc>
1	Inc+Inc	SVI	1	1	1	1	1	1	1	1	1	1	1	1	1
11	Inc+CerYZ	SVI	1	1	1	1	1	1	1	1	1	1	0	0	
13	CerYZ+CerYZ	SVI	1	1	1	1	0	0	1	1	1	1	0	0	

**Elenco aste**

**Simbologia**

Asta = Numero dell'asta  
 N1 = Nodo iniziale  
 N2 = Nodo finale  
 Sez. = Numero della sezione  
 Va = Numero del vincolo asta  
 Par. = Numero dei parametri aggiuntivi  
 Rot. = Rotazione  
 FF = Filo fisso  
 Dy1 = Scost. filo fisso Y1  
 Dy2 = Scost. filo fisso Y2  
 Dz1 = Scost. filo fisso Z1  
 Dz2 = Scost. filo fisso Z2  
 Kt = Coeff. di sottofondo su suolo elastico alla Winkler

Asta	N1	N2	Sez.	Va	Par.	Rot.	FF	Dy1	Dy2	Dz1	Dz2	Kt
												<daN/cmc>
						<grad>		<cm>	<cm>	<cm>	<cm>	
0	-4184	-5015		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5015	-5946		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5946	-6260		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6260	-6261		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6261	-6254		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6254	-6262		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6262	-6263		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6263	-5947		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5947	-5016		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10292	-10363		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10363	-10425		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10425	-10502		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10502	-10617		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5016	-4185		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10617	-10703		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10703	-10788		1		0.00	22	0.00	0.00	0.00	0.00	
0	-4472	-5529		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10788	-10859		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5529	-6497		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10859	-10930		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6497	-6801		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6801	-6802		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6802	-6498		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10930	-10995		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6498	-5521		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10995	-11073		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11073	-11138		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11138	-11204		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11204	-11270		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11270	-11342		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5521	-4464		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11342	-11408		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11408	-11478		1		0.00	22	0.00	0.00	0.00	0.00	
0	-4784	-5280		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5280	-5737		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11478	-11548		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5737	-6203		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6203	-6701		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11548	-11618		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6701	-7040		1		0.00	55	0.00	0.00	0.00	0.00	
0	-7040	-7041		1		0.00	55	0.00	0.00	0.00	0.00	

0	-7041	-6702	1	0.00	55	0.00	0.00	0.00	0.00
0	-6702	-5748	1	0.00	55	0.00	0.00	0.00	0.00
0	-11618	-11690	1	0.00	22	0.00	0.00	0.00	0.00
0	-11690	-11756	1	0.00	22	0.00	0.00	0.00	0.00
0	-11756	-11822	1	0.00	22	0.00	0.00	0.00	0.00
0	-11822	-11885	1	0.00	22	0.00	0.00	0.00	0.00
0	-11885	-11972	1	0.00	22	0.00	0.00	0.00	0.00
0	-11972	-12099	1	0.00	22	0.00	0.00	0.00	0.00
0	-5748	-4785	1	0.00	55	0.00	0.00	0.00	0.00
0	-12099	-12161	1	0.00	22	0.00	0.00	0.00	0.00
0	-12161	-12238	1	0.00	22	0.00	0.00	0.00	0.00
0	-4971	-5896	1	0.00	55	0.00	0.00	0.00	0.00
0	-12238	-12310	1	0.00	22	0.00	0.00	0.00	0.00
0	-5896	-6946	1	0.00	55	0.00	0.00	0.00	0.00
0	-12310	-12378	1	0.00	22	0.00	0.00	0.00	0.00
0	-6946	-7231	1	0.00	55	0.00	0.00	0.00	0.00
0	-7231	-7232	1	0.00	55	0.00	0.00	0.00	0.00
0	-7232	-6947	1	0.00	55	0.00	0.00	0.00	0.00
0	-6947	-5897	1	0.00	55	0.00	0.00	0.00	0.00
0	-12378	-12444	1	0.00	22	0.00	0.00	0.00	0.00
0	-12444	-12530	1	0.00	22	0.00	0.00	0.00	0.00
0	-12530	-12608	1	0.00	22	0.00	0.00	0.00	0.00
0	-12608	-12682	1	0.00	22	0.00	0.00	0.00	0.00
0	-12682	-12753	1	0.00	22	0.00	0.00	0.00	0.00
0	-12753	-12823	1	0.00	22	0.00	0.00	0.00	0.00
0	-5897	-5453	1	0.00	55	0.00	0.00	0.00	0.00
0	-5453	-4998	1	0.00	55	0.00	0.00	0.00	0.00
0	-12823	-12893	1	0.00	22	0.00	0.00	0.00	0.00
0	-12893	-12975	1	0.00	22	0.00	0.00	0.00	0.00
0	-5217	-6144	1	0.00	55	0.00	0.00	0.00	0.00
0	-12975	-13054	1	0.00	22	0.00	0.00	0.00	0.00
0	-6144	-7158	1	0.00	55	0.00	0.00	0.00	0.00
0	-13054	-13117	1	0.00	22	0.00	0.00	0.00	0.00
0	-7158	-7452	1	0.00	55	0.00	0.00	0.00	0.00
0	-7452	-7453	1	0.00	55	0.00	0.00	0.00	0.00
0	-7453	-7159	1	0.00	55	0.00	0.00	0.00	0.00
0	-7159	-6145	1	0.00	55	0.00	0.00	0.00	0.00
0	-13117	-13196	1	0.00	22	0.00	0.00	0.00	0.00
0	-13196	-13262	1	0.00	22	0.00	0.00	0.00	0.00
0	-13262	-13331	1	0.00	22	0.00	0.00	0.00	0.00
0	-13331	-13398	1	0.00	22	0.00	0.00	0.00	0.00
0	-13398	-13470	1	0.00	22	0.00	0.00	0.00	0.00
0	-13470	-13540	1	0.00	22	0.00	0.00	0.00	0.00
0	-6145	-5218	1	0.00	55	0.00	0.00	0.00	0.00
0	-13540	-13606	1	0.00	22	0.00	0.00	0.00	0.00
0	-13606	-13672	1	0.00	22	0.00	0.00	0.00	0.00
0	-5385	-6312	1	0.00	55	0.00	0.00	0.00	0.00
0	-13672	-13738	1	0.00	22	0.00	0.00	0.00	0.00
0	-6312	-7311	1	0.00	55	0.00	0.00	0.00	0.00
0	-13738	-13804	1	0.00	22	0.00	0.00	0.00	0.00
0	-7311	-7627	1	0.00	55	0.00	0.00	0.00	0.00
0	-7627	-7628	1	0.00	55	0.00	0.00	0.00	0.00
0	-7628	-7312	1	0.00	55	0.00	0.00	0.00	0.00
0	-7312	-6332	1	0.00	55	0.00	0.00	0.00	0.00
0	-13804	-13870	1	0.00	22	0.00	0.00	0.00	0.00
0	-13870	-13938	1	0.00	22	0.00	0.00	0.00	0.00
0	-13938	-14008	1	0.00	22	0.00	0.00	0.00	0.00
0	-14008	-14079	1	0.00	22	0.00	0.00	0.00	0.00
0	-14079	-14143	1	0.00	22	0.00	0.00	0.00	0.00
0	-14143	-14209	1	0.00	22	0.00	0.00	0.00	0.00
0	-6332	-5386	1	0.00	55	0.00	0.00	0.00	0.00
0	-14209	-14275	1	0.00	22	0.00	0.00	0.00	0.00
0	-14275	-14341	1	0.00	22	0.00	0.00	0.00	0.00
0	-5611	-6562	1	0.00	55	0.00	0.00	0.00	0.00
0	-14341	-14407	1	0.00	22	0.00	0.00	0.00	0.00
0	-6562	-7545	1	0.00	55	0.00	0.00	0.00	0.00
0	-7545	-7863	1	0.00	55	0.00	0.00	0.00	0.00
0	-7863	-7864	1	0.00	55	0.00	0.00	0.00	0.00
0	-7864	-7537	1	0.00	55	0.00	0.00	0.00	0.00
0	-7537	-6563	1	0.00	55	0.00	0.00	0.00	0.00
0	-14407	-14473	1	0.00	22	0.00	0.00	0.00	0.00
0	-14473	-14539	1	0.00	22	0.00	0.00	0.00	0.00
0	-14539	-14609	1	0.00	22	0.00	0.00	0.00	0.00
0	-14609	-14677	1	0.00	22	0.00	0.00	0.00	0.00
0	-14677	-14743	1	0.00	22	0.00	0.00	0.00	0.00
0	-14743	-14809	1	0.00	22	0.00	0.00	0.00	0.00
0	-14809	-14875	1	0.00	22	0.00	0.00	0.00	0.00
0	-6563	-5612	1	0.00	55	0.00	0.00	0.00	0.00
0	-14875	-14941	1	0.00	22	0.00	0.00	0.00	0.00

0	-14941	-15007	1	0.00	22	0.00	0.00	0.00	0.00
0	-5809	-6766	1	0.00	55	0.00	0.00	0.00	0.00
0	-15007	-15073	1	0.00	22	0.00	0.00	0.00	0.00
0	-6766	-7741	1	0.00	55	0.00	0.00	0.00	0.00
0	-7741	-8110	1	0.00	55	0.00	0.00	0.00	0.00
0	-8110	-8111	1	0.00	55	0.00	0.00	0.00	0.00
0	-7742	-6767	1	0.00	55	0.00	0.00	0.00	0.00
0	-15073	-15143	1	0.00	22	0.00	0.00	0.00	0.00
0	-8111	-7742	1	0.00	55	0.00	0.00	0.00	0.00
0	-15143	-15207	1	0.00	22	0.00	0.00	0.00	0.00
0	-15207	-15274	1	0.00	22	0.00	0.00	0.00	0.00
0	-15274	-15340	1	0.00	22	0.00	0.00	0.00	0.00
0	-15340	-15406	1	0.00	22	0.00	0.00	0.00	0.00
0	-15406	-15472	1	0.00	22	0.00	0.00	0.00	0.00
0	-15472	-15538	1	0.00	22	0.00	0.00	0.00	0.00
0	-6767	-5810	1	0.00	55	0.00	0.00	0.00	0.00
0	-15538	-15604	1	0.00	22	0.00	0.00	0.00	0.00
0	-15604	-15670	1	0.00	22	0.00	0.00	0.00	0.00
0	-6033	-7013	1	0.00	55	0.00	0.00	0.00	0.00
0	-15670	-15736	1	0.00	22	0.00	0.00	0.00	0.00
0	-7013	-7992	1	0.00	55	0.00	0.00	0.00	0.00
0	-7992	-8366	1	0.00	55	0.00	0.00	0.00	0.00
0	-8366	-8367	1	0.00	55	0.00	0.00	0.00	0.00
0	-8367	-7993	1	0.00	55	0.00	0.00	0.00	0.00
0	-7993	-7014	1	0.00	55	0.00	0.00	0.00	0.00
0	-15736	-15802	1	0.00	22	0.00	0.00	0.00	0.00
0	-15802	-15868	1	0.00	22	0.00	0.00	0.00	0.00
0	-15868	-15935	1	0.00	22	0.00	0.00	0.00	0.00
0	-15935	-16001	1	0.00	22	0.00	0.00	0.00	0.00
0	-16001	-16067	1	0.00	22	0.00	0.00	0.00	0.00
0	-16067	-16133	1	0.00	22	0.00	0.00	0.00	0.00
0	-16133	-16199	1	0.00	22	0.00	0.00	0.00	0.00
0	-7014	-6034	1	0.00	55	0.00	0.00	0.00	0.00
0	-16199	-16265	1	0.00	22	0.00	0.00	0.00	0.00
0	-16265	-16331	1	0.00	22	0.00	0.00	0.00	0.00
0	-5974	-7210	1	0.00	55	0.00	0.00	0.00	0.00
0	-16331	-16397	1	0.00	22	0.00	0.00	0.00	0.00
0	-7210	-8262	1	0.00	55	0.00	0.00	0.00	0.00
0	-8262	-8511	1	0.00	55	0.00	0.00	0.00	0.00
0	-8511	-8512	1	0.00	55	0.00	0.00	0.00	0.00
0	-8512	-8263	1	0.00	55	0.00	0.00	0.00	0.00
0	-8263	-7211	1	0.00	55	0.00	0.00	0.00	0.00
0	-16397	-16463	1	0.00	22	0.00	0.00	0.00	0.00
0	-16463	-16529	1	0.00	22	0.00	0.00	0.00	0.00
0	-16529	-16595	1	0.00	22	0.00	0.00	0.00	0.00
0	-16595	-16562	1	0.00	22	0.00	0.00	0.00	0.00
0	-16562	-16496	1	0.00	22	0.00	0.00	0.00	0.00
0	-16496	-16430	1	0.00	22	0.00	0.00	0.00	0.00
0	-16430	-16364	1	0.00	22	0.00	0.00	0.00	0.00
0	-7211	-6010	1	0.00	55	0.00	0.00	0.00	0.00
0	-16364	-16298	1	0.00	22	0.00	0.00	0.00	0.00
0	-16298	-16232	1	0.00	22	0.00	0.00	0.00	0.00
0	3001	-7182	1	0.00	55	0.00	0.00	0.00	0.00
0	-16232	-16166	1	0.00	22	0.00	0.00	0.00	0.00
0	-7182	-7994	1	0.00	55	0.00	0.00	0.00	0.00
0	-7994	-8368	1	0.00	55	0.00	0.00	0.00	0.00
0	-8369	-7995	1	0.00	55	0.00	0.00	0.00	0.00
0	-16166	-16100	1	0.00	22	0.00	0.00	0.00	0.00
0	-8368	-8369	1	0.00	55	0.00	0.00	0.00	0.00
0	-7995	-7183	1	0.00	55	0.00	0.00	0.00	0.00
0	-16100	-16034	1	0.00	22	0.00	0.00	0.00	0.00
0	-16034	-15968	1	0.00	22	0.00	0.00	0.00	0.00
0	-15968	-15902	1	0.00	22	0.00	0.00	0.00	0.00
0	-15902	-15835	1	0.00	22	0.00	0.00	0.00	0.00
0	-15835	-15769	1	0.00	22	0.00	0.00	0.00	0.00
0	-15769	-15703	1	0.00	22	0.00	0.00	0.00	0.00
0	-7183	-6035	1	0.00	55	0.00	0.00	0.00	0.00
0	-15703	-15637	1	0.00	22	0.00	0.00	0.00	0.00
0	-15637	-15571	1	0.00	22	0.00	0.00	0.00	0.00
0	-5563	-6768	1	0.00	55	0.00	0.00	0.00	0.00
0	-15571	-15505	1	0.00	22	0.00	0.00	0.00	0.00
0	-6768	-7743	1	0.00	55	0.00	0.00	0.00	0.00
0	-7743	-8112	1	0.00	55	0.00	0.00	0.00	0.00
0	-15505	-15439	1	0.00	22	0.00	0.00	0.00	0.00
0	-8112	-8113	1	0.00	55	0.00	0.00	0.00	0.00
0	-8113	-7744	1	0.00	55	0.00	0.00	0.00	0.00
0	-7744	-6769	1	0.00	55	0.00	0.00	0.00	0.00
0	-15439	-15373	1	0.00	22	0.00	0.00	0.00	0.00
0	-15373	-15307	1	0.00	22	0.00	0.00	0.00	0.00

0	-15307	-15241		1		0.00	22	0.00	0.00	0.00	0.00
0	-15241	-15174		1		0.00	22	0.00	0.00	0.00	0.00
0	-15174	-15109		1		0.00	22	0.00	0.00	0.00	0.00
0	-15109	-15040		1		0.00	22	0.00	0.00	0.00	0.00
0	-6769	-5566		1		0.00	55	0.00	0.00	0.00	0.00
0	-15040	-14974		1		0.00	22	0.00	0.00	0.00	0.00
0	-14974	-14908		1		0.00	22	0.00	0.00	0.00	0.00
0	-5358	-6576		1		0.00	55	0.00	0.00	0.00	0.00
0	-14908	-14842		1		0.00	22	0.00	0.00	0.00	0.00
0	-6576	-7538		1		0.00	55	0.00	0.00	0.00	0.00
0	-7538	-7901		1		0.00	55	0.00	0.00	0.00	0.00
0	-7901	-7902		1		0.00	55	0.00	0.00	0.00	0.00
0	-7902	-7539		1		0.00	55	0.00	0.00	0.00	0.00
0	-7539	-6577		1		0.00	55	0.00	0.00	0.00	0.00
0	-14842	-14776		1		0.00	22	0.00	0.00	0.00	0.00
0	-14776	-14710		1		0.00	22	0.00	0.00	0.00	0.00
0	-14710	-14644		1		0.00	22	0.00	0.00	0.00	0.00
0	-14644	-14576		1		0.00	22	0.00	0.00	0.00	0.00
0	-14576	-14506		1		0.00	22	0.00	0.00	0.00	0.00
0	-14506	-14440		1		0.00	22	0.00	0.00	0.00	0.00
0	-14440	-14374		1		0.00	22	0.00	0.00	0.00	0.00
0	-6577	-5359		1		0.00	55	0.00	0.00	0.00	0.00
0	-14374	-14308		1		0.00	22	0.00	0.00	0.00	0.00
0	-14308	-14242		1		0.00	22	0.00	0.00	0.00	0.00
0	-5111	-6313		1		0.00	55	0.00	0.00	0.00	0.00
0	-14242	-14176		1		0.00	22	0.00	0.00	0.00	0.00
0	-6313	-7313		1		0.00	55	0.00	0.00	0.00	0.00
0	-7313	-7647		1		0.00	55	0.00	0.00	0.00	0.00
0	-7647	-7629		1		0.00	55	0.00	0.00	0.00	0.00
0	-7629	-7314		1		0.00	55	0.00	0.00	0.00	0.00
0	-7314	-6314		1		0.00	55	0.00	0.00	0.00	0.00
0	-14176	-14110		1		0.00	22	0.00	0.00	0.00	0.00
0	-14110	-14042		1		0.00	22	0.00	0.00	0.00	0.00
0	-14042	-13975		1		0.00	22	0.00	0.00	0.00	0.00
0	-13975	-13905		1		0.00	22	0.00	0.00	0.00	0.00
0	-13905	-13837		1		0.00	22	0.00	0.00	0.00	0.00
0	-13837	-13771		1		0.00	22	0.00	0.00	0.00	0.00
0	-13771	-13705		1		0.00	22	0.00	0.00	0.00	0.00
0	-6314	-5112		1		0.00	55	0.00	0.00	0.00	0.00
0	-13705	-13639		1		0.00	22	0.00	0.00	0.00	0.00
0	2810	3110	36	1		0.00	22	0.00	0.00	0.00	0.00
0	-13639	-13573		1		0.00	22	0.00	0.00	0.00	0.00
0	2810	-6146		1		0.00	55	0.00	0.00	0.00	0.00
0	-13573	-13507		1		0.00	22	0.00	0.00	0.00	0.00
0	-6146	-7154		1		0.00	55	0.00	0.00	0.00	0.00
0	-13507	-13437		1		0.00	22	0.00	0.00	0.00	0.00
0	-7154	-7454		1		0.00	55	0.00	0.00	0.00	0.00
0	-7454	-7455		1		0.00	55	0.00	0.00	0.00	0.00
0	-7455	-7160		1		0.00	55	0.00	0.00	0.00	0.00
0	-7160	-6147		1		0.00	55	0.00	0.00	0.00	0.00
0	-13437	-13365		1		0.00	22	0.00	0.00	0.00	0.00
0	-13365	-13298		1		0.00	22	0.00	0.00	0.00	0.00
0	-13298	-13229		1		0.00	22	0.00	0.00	0.00	0.00
0	-13229	-13161		1		0.00	22	0.00	0.00	0.00	0.00
0	-13161	-13093		1		0.00	22	0.00	0.00	0.00	0.00
0	-13093	-13021		1		0.00	22	0.00	0.00	0.00	0.00
0	-6147	2811		1		0.00	55	0.00	0.00	0.00	0.00
0	-13021	-12938		1		0.00	22	0.00	0.00	0.00	0.00
0	2811	3111	36	1		0.00	22	0.00	0.00	0.00	0.00
0	-12938	-12860		1		0.00	22	0.00	0.00	0.00	0.00
0	-4518	-5941		1		0.00	55	0.00	0.00	0.00	0.00
0	-12860	-12790		1		0.00	22	0.00	0.00	0.00	0.00
0	-5941	-6948		1		0.00	55	0.00	0.00	0.00	0.00
0	-12790	-12720		1		0.00	22	0.00	0.00	0.00	0.00
0	-6948	-7235		1		0.00	55	0.00	0.00	0.00	0.00
0	-7235	-7431		1		0.00	55	0.00	0.00	0.00	0.00
0	-7431	-7540		1		0.00	55	0.00	0.00	0.00	0.00
0	-7540	-7432		1		0.00	55	0.00	0.00	0.00	0.00
0	-7432	-7236		1		0.00	55	0.00	0.00	0.00	0.00
0	-7236	-6949		1		0.00	55	0.00	0.00	0.00	0.00
0	-6949	-5926		1		0.00	55	0.00	0.00	0.00	0.00
0	-12720	-12649		1		0.00	22	0.00	0.00	0.00	0.00
0	-12649	-12575		1		0.00	22	0.00	0.00	0.00	0.00
0	-12575	-12492		1		0.00	22	0.00	0.00	0.00	0.00
0	-12492	-12411		1		0.00	22	0.00	0.00	0.00	0.00
0	-12411	-12345		1		0.00	22	0.00	0.00	0.00	0.00
0	-12345	-12277		1		0.00	22	0.00	0.00	0.00	0.00
0	-5926	-5000		1		0.00	55	0.00	0.00	0.00	0.00
0	-12277	-12205		1		0.00	22	0.00	0.00	0.00	0.00



0	-12205	-12105		1		0.00	22	0.00	0.00	0.00	0.00	
0	-4376	-5749		1		0.00	55	0.00	0.00	0.00	0.00	
0	-12105	-12086		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5749	-6703		1		0.00	55	0.00	0.00	0.00	0.00	
0	-12086	-11990		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6703	-7046		1		0.00	55	0.00	0.00	0.00	0.00	
0	-7046	-7047		1		0.00	55	0.00	0.00	0.00	0.00	
0	-7047	-6704		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6704	-5750		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11990	-11895		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11895	-11789		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11789	-11723		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11723	-11652		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11652	-11585		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11585	-11515		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5750	-4377		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11515	-11445		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11445	-11375		1		0.00	22	0.00	0.00	0.00	0.00	
0	-4237	-5536		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11375	-11309		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5536	-6499		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11309	-11237		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6499	-6807		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6807	-6808		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6808	-6500		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6500	-5537		1		0.00	55	0.00	0.00	0.00	0.00	
0	-11237	-11171		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11171	-11105		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11105	-11034		1		0.00	22	0.00	0.00	0.00	0.00	
0	-11034	-10962		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10962	-10899		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10899	-10821		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5537	-4181		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10821	-10755		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10755	-10669		1		0.00	22	0.00	0.00	0.00	0.00	
0	-4196	-5027		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10669	-10564		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5027	-5968		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5968	-6148		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6148	-6264		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6264	-6265		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6265	-6266		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6255	-6267		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6267	-6149		1		0.00	55	0.00	0.00	0.00	0.00	
0	-6149	-5969		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5490	-5028		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10564	-10469		1		0.00	22	0.00	0.00	0.00	0.00	
0	-6266	-6255		1		0.00	55	0.00	0.00	0.00	0.00	
0	-5969	-5490		1		0.00	55	0.00	0.00	0.00	0.00	
0	-10469	-10400		1		0.00	22	0.00	0.00	0.00	0.00	
0	-10400	-10327		1		0.00	22	0.00	0.00	0.00	0.00	
0	-5028	-4197		1		0.00	55	0.00	0.00	0.00	0.00	
8	2108	2308	28	11		90.00	33	0.00	0.00	0.00	0.00	
9	2109	2309	28	11		90.00	11	0.00	0.00	0.00	0.00	
12	2212	2312	57	11		90.00	99	0.00	0.00	0.00	0.00	
13	2213	2313	57	11		90.00	77	0.00	0.00	0.00	0.00	
2355	2309	-2524	48	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2524	-2490	48	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2490	-2480	48	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2480	-2473	31	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2473	-2460	31	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2460	-2434	31	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2434	-2429	59	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2429	-2421	59	1		0.00	22	0.00	0.00	0.00	0.00	
2355	-2421	-2418	59	1		0.00	22	0.00	0.00	0.00	0.00	
2370	2308	-2523	48	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2523	-2489	48	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2489	-2479	48	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2479	-2472	31	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2472	-2459	31	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2459	-2433	31	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2433	-2428	59	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2428	-2420	59	1		0.00	22	0.00	0.00	0.00	0.00	
2370	-2420	-2417	59	1		0.00	22	0.00	0.00	0.00	0.00	
2461	2308	-11071	50	13		0.00	55	0.00	0.00	0.00	0.00	
2463	2309	-11075	50	13		0.00	55	0.00	0.00	0.00	0.00	
2465	2308	-11754	50	13		0.00	55	0.00	0.00	0.00	-20.00	
2466	2309	-11758	50	13		0.00	55	0.00	0.00	0.00	-20.00	
2589	2312	-11787	50	13		0.00	55	0.00	0.00	0.00	-20.00	

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2590	2313	-11791	50	13		0.00	55	0.00	0.00	0.00	-20.00	
2593	2313	-11107	50	13		0.00	55	0.00	0.00	0.00	0.00	
2594	2312	-11103	50	13		0.00	55	0.00	0.00	0.00	0.00	
2687	-2417	-2422	59	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2422	-2430	59	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2430	-2435	59	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2435	-2461	31	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2461	-2474	31	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2474	-2481	31	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2481	-2491	48	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2491	-2529	48	1		0.00	22	0.00	0.00	0.00	0.00	
2687	-2529	2312	48	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2418	-2423	59	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2423	-2431	59	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2431	-2436	59	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2436	-2462	31	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2462	-2475	31	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2475	-2482	31	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2482	-2492	48	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2492	-2530	48	1		0.00	22	0.00	0.00	0.00	0.00	
2702	-2530	2313	48	1		0.00	22	0.00	0.00	0.00	0.00	
3063	-2474	-2558	32	1		0.00	55	0.00	0.00	0.00	0.00	
3063	-2558	-3028	33	1		0.00	55	0.00	0.00	0.00	0.00	
3063	-3028	2810	34	1		0.00	55	0.00	0.00	0.00	0.00	
3063	2810	-8282	34	1		0.00	55	0.00	0.00	0.00	0.00	
3063	-8282	-9826	34	1		0.00	55	0.00	0.00	0.00	0.00	
3063	-9826	-13294	34	1		0.00	55	0.00	0.00	0.00	0.00	
3064	-2475	-2559	32	1		0.00	55	0.00	0.00	0.00	0.00	
3064	-2559	-3029	33	1		0.00	55	0.00	0.00	0.00	0.00	
3064	-3029	2811	34	1		0.00	55	0.00	0.00	0.00	0.00	
3064	2811	-8283	34	1		0.00	55	0.00	0.00	0.00	0.00	
3064	-8283	-13302	34	1		0.00	55	0.00	0.00	0.00	0.00	
3231	-2422	-2512	32	1		0.00	55	0.00	0.00	0.00	0.00	
3231	-2512	-3096	33	1		0.00	55	0.00	0.00	0.00	0.00	
3231	-3096	3001	34	1		0.00	55	0.00	0.00	0.00	0.00	
3231	3001	-9176	34	1		0.00	55	0.00	0.00	0.00	0.00	
3231	-9176	-11637	34	1		0.00	55	0.00	0.00	0.00	0.00	
3231	-11637	-15964	34	1		0.00	55	0.00	0.00	0.00	0.00	
3318	2308	-2703	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-2703	-2932	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-2932	-3124	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-3124	-3350	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-3350	-3678	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-3678	-4184	68	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-4184	-5527	34	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-5527	-7067	34	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-7067	-7782	34	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-7782	-8583	34	1		0.00	55	0.00	0.00	0.00	0.00	
3318	-8583	3501	34	1		0.00	55	0.00	0.00	0.00	0.00	
3319	-10278	-10277	47	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10279	-10278	47	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10280	-10279	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10281	-10280	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10282	-10281	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10283	-10282	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10284	-10283	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10285	-10284	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10286	-10285	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10287	-10286	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10288	-10287	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	3501	-10288	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10289	3501	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10290	-10289	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10291	-10290	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10292	-10291	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10293	-10292	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10294	-10293	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10295	-10294	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	3502	-10295	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10296	3502	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10297	-10296	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10298	-10297	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10299	-10298	35	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10300	-10299	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10301	-10300	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10302	-10301	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10303	-10302	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10304	-10303	37	1		180.00	77	0.00	0.00	0.00	0.00	
3319	-10305	-10304	37	1		180.00	77	0.00	0.00	0.00	0.00	

3319	-10306	-10305	47	1	180.00	77	0.00	0.00	0.00	0.00
3319	-10307	-10306	47	1	180.00	77	0.00	0.00	0.00	0.00
3337	-10316	-10349	47	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10317	-10316	47	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10374	-10317	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10318	-10374	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10319	-10318	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10320	-10319	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10350	-10320	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10321	-10350	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10351	-10321	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10322	-10351	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10323	-10322	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	3503	-10323	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10324	3503	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10325	-10324	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10326	-10325	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10327	-10326	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10328	-10327	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10352	-10328	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10329	-10352	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	3504	-10329	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10330	3504	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10353	-10330	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10354	-10353	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10355	-10354	35	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10331	-10355	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10332	-10331	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10333	-10332	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10356	-10333	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10334	-10356	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10335	-10334	37	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10336	-10335	47	1	180.00	99	0.00	0.00	0.00	0.00
3337	-10337	-10336	47	1	180.00	99	0.00	0.00	0.00	0.00
3338	2312	-2726	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-2726	-2945	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-2945	-3126	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-3126	-3352	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-3352	-3690	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-3690	-4196	68	1	0.00	55	0.00	0.00	0.00	0.00
3338	-4196	-5560	34	1	0.00	55	0.00	0.00	0.00	0.00
3338	-5560	-7070	34	1	0.00	55	0.00	0.00	0.00	0.00
3338	-7070	-7799	34	1	0.00	55	0.00	0.00	0.00	0.00
3338	-7799	-8598	34	1	0.00	55	0.00	0.00	0.00	0.00
3338	-8598	3503	34	1	0.00	55	0.00	0.00	0.00	0.00
3361	3111	-7321	36	1	0.00	22	0.00	0.00	0.00	0.00
3362	3110	-7320	36	1	0.00	22	0.00	0.00	0.00	0.00
3423	3201	-8290	36	1	0.00	22	0.00	0.00	0.00	0.00
3518	-4184	-5144	36	1	0.00	22	0.00	0.00	0.00	0.00
3519	-9984	-10279	36	1	0.00	22	0.00	0.00	0.00	0.00
3519	-9612	-9984	36	1	0.00	22	0.00	0.00	0.00	0.00
3520	-10687	-11062	36	1	0.00	22	0.00	0.00	0.00	0.00
3520	-10258	-10687	36	1	0.00	22	0.00	0.00	0.00	0.00
3521	-10915	-11742	36	1	0.00	22	0.00	0.00	0.00	0.00
3522	-12004	-12510	36	1	0.00	22	0.00	0.00	0.00	0.00
3522	-11495	-12004	36	1	0.00	22	0.00	0.00	0.00	0.00
3523	-12116	-13248	36	1	0.00	22	0.00	0.00	0.00	0.00
3524	-12770	-13924	36	1	0.00	22	0.00	0.00	0.00	0.00
3525	-13415	-14595	36	1	0.00	22	0.00	0.00	0.00	0.00
3526	-14626	-15260	36	1	0.00	22	0.00	0.00	0.00	0.00
3526	-13955	-14626	36	1	0.00	22	0.00	0.00	0.00	0.00
3527	-14556	-15921	36	1	0.00	22	0.00	0.00	0.00	0.00
3528	-15885	-16581	36	1	0.00	22	0.00	0.00	0.00	0.00
3528	-15131	-15885	36	1	0.00	22	0.00	0.00	0.00	0.00
3529	-15224	-15954	36	1	0.00	22	0.00	0.00	0.00	0.00
3529	-14558	-15224	36	1	0.00	22	0.00	0.00	0.00	0.00
3530	-14627	-15293	36	1	0.00	22	0.00	0.00	0.00	0.00
3530	-13957	-14627	36	1	0.00	22	0.00	0.00	0.00	0.00
3531	-14025	-14630	36	1	0.00	22	0.00	0.00	0.00	0.00
3531	-13417	-14025	36	1	0.00	22	0.00	0.00	0.00	0.00
3532	-13419	-13961	36	1	0.00	22	0.00	0.00	0.00	0.00
3532	-12772	-13419	36	1	0.00	22	0.00	0.00	0.00	0.00
3533	-12703	-13284	36	1	0.00	22	0.00	0.00	0.00	0.00
3533	-12130	-12703	36	1	0.00	22	0.00	0.00	0.00	0.00
3534	-11497	-12561	36	1	0.00	22	0.00	0.00	0.00	0.00
3535	-10876	-11775	36	1	0.00	22	0.00	0.00	0.00	0.00
3536	-10656	-11091	36	1	0.00	22	0.00	0.00	0.00	0.00
3536	-10260	-10656	36	1	0.00	22	0.00	0.00	0.00	0.00
3537	-9614	-10317	36	1	0.00	22	0.00	0.00	0.00	0.00

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3538	-4196	-5152	36	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2933	-2932	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2934	-2933	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2935	-2934	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2936	-2935	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2937	-2936	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2938	-2937	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2939	-2938	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2940	-2939	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2941	-2940	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2942	-2941	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2943	-2942	52	1		0.00	22	0.00	0.00	0.00	0.00	
3859	-2944	-2943	52	1		0.00	22	0.00	0.00	0.00	0.00	
3860	-10290	-11060	53	13		0.00	22	0.00	0.00	0.00	0.00	
3862	-10294	-11088	53	13		0.00	22	0.00	0.00	0.00	0.00	
3864	-4464	-5625	36	1		0.00	22	0.00	0.00	0.00	0.00	
3867	-2523	-2662	32	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-2662	-2994	33	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-2994	-4472	34	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-4472	-6026	34	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-6026	-7517	34	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-7517	-8365	34	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-8365	-9160	34	1		0.00	55	0.00	0.00	0.00	0.00	
3867	-9160	-11069	34	1		0.00	55	0.00	0.00	0.00	0.00	
3868	-11071	-11740	53	13		0.00	22	0.00	0.00	0.00	0.00	
3869	-11075	-11772	53	13		0.00	22	0.00	0.00	0.00	0.00	
3870	-4785	-5830	36	1		0.00	22	0.00	0.00	0.00	0.00	
3871	-5829	-6968	36	1		0.00	22	0.00	0.00	0.00	0.00	
3872	-4784	-5829	36	1		0.00	22	0.00	0.00	0.00	0.00	
3873	-2489	-2599	32	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-2599	-3005	33	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-3005	-4784	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-4784	-5483	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-5483	-6207	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-6207	-7012	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-7012	-7717	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-7717	-8509	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-8509	-9385	34	1		0.00	55	0.00	0.00	0.00	0.00	
3873	-9385	-11752	34	1		0.00	55	0.00	0.00	0.00	0.00	
3874	-2524	-12532	50	13		0.00	55	0.00	0.00	0.00	-20.00	
3875	-2523	-12529	50	13		0.00	55	0.00	0.00	0.00	-20.00	
3876	-11758	-12543	53	13		0.00	22	0.00	0.00	0.00	0.00	
3877	-11754	-12508	53	13		0.00	22	0.00	0.00	0.00	0.00	
3878	-2479	-2568	32	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-2568	-3010	33	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-3010	-4971	34	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-4971	-7990	34	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-7990	-8788	34	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-8788	-9571	34	1		0.00	55	0.00	0.00	0.00	0.00	
3878	-9571	-12547	34	1		0.00	55	0.00	0.00	0.00	0.00	
3879	-4998	-6039	36	1		0.00	22	0.00	0.00	0.00	0.00	
3880	-2490	-13264	50	13		0.00	55	0.00	0.00	0.00	-20.00	
3881	-2489	-13260	50	13		0.00	55	0.00	0.00	0.00	-20.00	
3882	-12529	-13246	53	13		0.00	22	0.00	0.00	0.00	0.00	
3883	-12532	-13278	53	13		0.00	22	0.00	0.00	0.00	0.00	
3884	-2480	-13872	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3885	-2479	-13868	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3886	-6241	-7317	36	1		0.00	22	0.00	0.00	0.00	0.00	
3887	-5218	-6241	36	1		0.00	22	0.00	0.00	0.00	0.00	
3888	-2472	-2556	32	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-2556	-3026	33	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-3026	-5217	34	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-5217	-6661	34	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-6661	-8242	34	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-8242	-9842	34	1		0.00	55	0.00	0.00	0.00	0.00	
3888	-9842	-13258	34	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-2473	-2557	32	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-2557	-3027	33	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-3027	-5218	34	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-5218	-6662	34	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-6662	-8243	34	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-8243	-9843	34	1		0.00	55	0.00	0.00	0.00	0.00	
3889	-9843	-13266	34	1		0.00	55	0.00	0.00	0.00	0.00	
3890	-7316	-8391	36	1		0.00	22	0.00	0.00	0.00	0.00	
3891	-13264	-13954	53	13		0.00	22	0.00	0.00	0.00	0.00	
3892	-13260	-13922	53	13		0.00	22	0.00	0.00	0.00	0.00	
3893	-2472	-14471	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3894	-2473	-14475	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3895	-2459	-2548	32	1		0.00	55	0.00	0.00	0.00	0.00	

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3895	-2548	-3043	33	1		0.00	55	0.00	0.00	0.00	0.00	
3895	-3043	-5385	34	1		0.00	55	0.00	0.00	0.00	0.00	
3895	-5385	-8440	34	1		0.00	55	0.00	0.00	0.00	0.00	
3895	-8440	-10136	34	1		0.00	55	0.00	0.00	0.00	0.00	
3895	-10136	-13934	34	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-2460	-2549	32	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-2549	-3044	33	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-3044	-5386	34	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-5386	-8441	34	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-8441	-10137	34	1		0.00	55	0.00	0.00	0.00	0.00	
3896	-10137	-13942	34	1		0.00	55	0.00	0.00	0.00	0.00	
3897	-5386	-6440	36	1		0.00	22	0.00	0.00	0.00	0.00	
3898	-13940	-14625	53	13		0.00	22	0.00	0.00	0.00	0.00	
3899	-13936	-14593	53	13		0.00	22	0.00	0.00	0.00	0.00	
3900	-2460	-15075	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3901	-2459	-15071	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3902	-2434	-2526	32	1		0.00	55	0.00	0.00	0.00	0.00	
3902	-2526	-3057	33	1		0.00	55	0.00	0.00	0.00	0.00	
3902	-3057	-5612	34	1		0.00	55	0.00	0.00	0.00	0.00	
3902	-5612	-8662	34	1		0.00	55	0.00	0.00	0.00	0.00	
3902	-8662	-10382	34	1		0.00	55	0.00	0.00	0.00	0.00	
3902	-10382	-14613	34	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-2433	-2525	32	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-2525	-3056	33	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-3056	-5611	34	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-5611	-8671	34	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-8671	-10452	34	1		0.00	55	0.00	0.00	0.00	0.00	
3903	-10452	-14605	34	1		0.00	55	0.00	0.00	0.00	0.00	
3904	-14611	-15290	53	13		0.00	22	0.00	0.00	0.00	0.00	
3905	-14607	-15258	53	13		0.00	22	0.00	0.00	0.00	0.00	
3906	-2433	-15668	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3907	-2434	-15672	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3908	-2428	-2516	32	1		0.00	55	0.00	0.00	0.00	0.00	
3908	-2516	-3070	33	1		0.00	55	0.00	0.00	0.00	0.00	
3908	-3070	-5809	34	1		0.00	55	0.00	0.00	0.00	0.00	
3908	-5809	-8967	34	1		0.00	55	0.00	0.00	0.00	0.00	
3908	-8967	-15270	34	1		0.00	55	0.00	0.00	0.00	0.00	
3909	-5810	-6924	36	1		0.00	22	0.00	0.00	0.00	0.00	
3910	-15276	-15951	53	13		0.00	22	0.00	0.00	0.00	0.00	
3911	-15272	-15919	53	13		0.00	22	0.00	0.00	0.00	0.00	
3912	-2428	-16263	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3913	-2429	-16267	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3914	-2420	-2510	32	1		0.00	55	0.00	0.00	0.00	0.00	
3914	-2510	-3094	33	1		0.00	55	0.00	0.00	0.00	0.00	
3914	-3094	-6033	34	1		0.00	55	0.00	0.00	0.00	0.00	
3914	-6033	-9174	34	1		0.00	55	0.00	0.00	0.00	0.00	
3914	-9174	-15931	34	1		0.00	55	0.00	0.00	0.00	0.00	
3915	-6034	-7152	36	1		0.00	22	0.00	0.00	0.00	0.00	
3916	-7151	-8288	36	1		0.00	22	0.00	0.00	0.00	0.00	
3917	-2420	-8511	39	13		0.00	55	0.00	0.00	0.00	0.00	
3918	-2421	-8512	39	13		0.00	55	0.00	0.00	0.00	0.00	
3919	-15937	-16611	53	13		0.00	22	0.00	0.00	0.00	0.00	
3920	-15933	-16579	53	13		0.00	22	0.00	0.00	0.00	0.00	
3921	-6010	-7308	36	1		0.00	22	0.00	0.00	0.00	0.00	
3922	-7307	-8462	36	1		0.00	22	0.00	0.00	0.00	0.00	
3923	-5974	-7307	36	1		0.00	22	0.00	0.00	0.00	0.00	
3924	-2417	-2500	32	1		0.00	55	0.00	0.00	0.00	0.00	
3924	-2500	-3103	33	1		0.00	55	0.00	0.00	0.00	0.00	
3924	-3103	-5974	34	1		0.00	55	0.00	0.00	0.00	0.00	
3924	-5974	-9431	34	1		0.00	55	0.00	0.00	0.00	0.00	
3924	-9431	-16591	34	1		0.00	55	0.00	0.00	0.00	0.00	
3925	-15970	-16611	53	13		0.00	22	0.00	0.00	0.00	0.00	
3926	-15966	-16579	53	13		0.00	22	0.00	0.00	0.00	0.00	
3927	-2423	-8512	39	13		0.00	55	0.00	0.00	0.00	0.00	
3928	-2422	-8511	39	13		0.00	55	0.00	0.00	0.00	0.00	
3929	-6035	-7153	36	1		0.00	22	0.00	0.00	0.00	0.00	
3930	-2423	-2513	32	1		0.00	55	0.00	0.00	0.00	0.00	
3930	-2513	-3097	33	1		0.00	55	0.00	0.00	0.00	0.00	
3930	-3097	-6035	34	1		0.00	55	0.00	0.00	0.00	0.00	
3930	-6035	-9177	34	1		0.00	55	0.00	0.00	0.00	0.00	
3930	-9177	-11706	34	1		0.00	55	0.00	0.00	0.00	0.00	
3930	-11706	-15972	34	1		0.00	55	0.00	0.00	0.00	0.00	
3932	-2431	-16300	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3933	-2430	-16296	39	13		0.00	55	0.00	0.00	0.00	-5.00	
3934	-15309	-15984	53	13		0.00	22	0.00	0.00	0.00	0.00	
3935	-15305	-15952	53	13		0.00	22	0.00	0.00	0.00	0.00	
3936	-2431	-2519	32	1		0.00	55	0.00	0.00	0.00	0.00	
3936	-2519	-3073	33	1		0.00	55	0.00	0.00	0.00	0.00	
3936	-3073	-5566	34	1		0.00	55	0.00	0.00	0.00	0.00	

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3936	-5566	-8969	34	1		0.00	55	0.00	0.00	0.00	0.00
3936	-8969	-11052	34	1		0.00	55	0.00	0.00	0.00	0.00
3936	-11052	-15311	34	1		0.00	55	0.00	0.00	0.00	0.00
3937	-2430	-2518	32	1		0.00	55	0.00	0.00	0.00	0.00
3937	-2518	-3072	33	1		0.00	55	0.00	0.00	0.00	0.00
3937	-3072	-5563	34	1		0.00	55	0.00	0.00	0.00	0.00
3937	-5563	-8955	34	1		0.00	55	0.00	0.00	0.00	0.00
3937	-8955	-11020	34	1		0.00	55	0.00	0.00	0.00	0.00
3937	-11020	-15303	34	1		0.00	55	0.00	0.00	0.00	0.00
3938	-2436	-15705	39	13		0.00	55	0.00	0.00	0.00	-5.00
3939	-2435	-15701	39	13		0.00	55	0.00	0.00	0.00	-5.00
3940	-14646	-15323	53	13		0.00	22	0.00	0.00	0.00	0.00
3941	-14642	-15291	53	13		0.00	22	0.00	0.00	0.00	0.00
3942	-6685	-7769	36	1		0.00	22	0.00	0.00	0.00	0.00
3943	-5359	-6686	36	1		0.00	22	0.00	0.00	0.00	0.00
3944	-5358	-6685	36	1		0.00	22	0.00	0.00	0.00	0.00
3945	-2436	-2528	32	1		0.00	55	0.00	0.00	0.00	0.00
3945	-2528	-3059	33	1		0.00	55	0.00	0.00	0.00	0.00
3945	-3059	-5359	34	1		0.00	55	0.00	0.00	0.00	0.00
3945	-5359	-8681	34	1		0.00	55	0.00	0.00	0.00	0.00
3945	-8681	-14648	34	1		0.00	55	0.00	0.00	0.00	0.00
3946	-2435	-2527	32	1		0.00	55	0.00	0.00	0.00	0.00
3946	-2527	-3058	33	1		0.00	55	0.00	0.00	0.00	0.00
3946	-3058	-5358	34	1		0.00	55	0.00	0.00	0.00	0.00
3946	-5358	-8680	34	1		0.00	55	0.00	0.00	0.00	0.00
3946	-8680	-14640	34	1		0.00	55	0.00	0.00	0.00	0.00
3947	-2461	-15107	39	13		0.00	55	0.00	0.00	0.00	-5.00
3948	-2462	-15111	39	13		0.00	55	0.00	0.00	0.00	-5.00
3949	-13977	-14660	53	13		0.00	22	0.00	0.00	0.00	0.00
3950	-13973	-14628	53	13		0.00	22	0.00	0.00	0.00	0.00
3951	-6457	-7563	36	1		0.00	22	0.00	0.00	0.00	0.00
3952	-6458	-7564	36	1		0.00	22	0.00	0.00	0.00	0.00
3953	-5112	-6458	36	1		0.00	22	0.00	0.00	0.00	0.00
3954	-5111	-6457	36	1		0.00	22	0.00	0.00	0.00	0.00
3955	-2461	-2550	32	1		0.00	55	0.00	0.00	0.00	0.00
3955	-2550	-3045	33	1		0.00	55	0.00	0.00	0.00	0.00
3955	-3045	-5111	34	1		0.00	55	0.00	0.00	0.00	0.00
3955	-5111	-8442	34	1		0.00	55	0.00	0.00	0.00	0.00
3955	-8442	-10071	34	1		0.00	55	0.00	0.00	0.00	0.00
3955	-10071	-13971	34	1		0.00	55	0.00	0.00	0.00	0.00
3956	-2462	-2551	32	1		0.00	55	0.00	0.00	0.00	0.00
3956	-2551	-3046	33	1		0.00	55	0.00	0.00	0.00	0.00
3956	-3046	-5112	34	1		0.00	55	0.00	0.00	0.00	0.00
3956	-5112	-8464	34	1		0.00	55	0.00	0.00	0.00	0.00
3956	-8464	-10076	34	1		0.00	55	0.00	0.00	0.00	0.00
3956	-10076	-13979	34	1		0.00	55	0.00	0.00	0.00	0.00
3957	-2474	-14504	39	13		0.00	55	0.00	0.00	0.00	-5.00
3958	-2475	-14508	39	13		0.00	55	0.00	0.00	0.00	-5.00
3959	-13300	-13991	53	13		0.00	22	0.00	0.00	0.00	0.00
3960	-13296	-13959	53	13		0.00	22	0.00	0.00	0.00	0.00
3965	-2481	-13903	39	13		0.00	55	0.00	0.00	0.00	-5.00
3966	-2482	-13907	39	13		0.00	55	0.00	0.00	0.00	-5.00
3967	-12577	-13314	53	13		0.00	22	0.00	0.00	0.00	0.00
3968	-12573	-13282	53	13		0.00	22	0.00	0.00	0.00	0.00
3969	-2491	-13296	50	13		0.00	55	0.00	0.00	0.00	-20.00
3970	-2492	-13300	50	13		0.00	55	0.00	0.00	0.00	-20.00
3971	-5000	-6041	36	1		0.00	22	0.00	0.00	0.00	0.00
3972	-2481	-2570	32	1		0.00	55	0.00	0.00	0.00	0.00
3972	-2570	-3012	33	1		0.00	55	0.00	0.00	0.00	0.00
3972	-3012	-4518	34	1		0.00	55	0.00	0.00	0.00	0.00
3972	-4518	-7996	34	1		0.00	55	0.00	0.00	0.00	0.00
3972	-7996	-12571	34	1		0.00	55	0.00	0.00	0.00	0.00
3973	-2482	-2571	32	1		0.00	55	0.00	0.00	0.00	0.00
3973	-2571	-3013	33	1		0.00	55	0.00	0.00	0.00	0.00
3973	-3013	-5000	34	1		0.00	55	0.00	0.00	0.00	0.00
3973	-5000	-7997	34	1		0.00	55	0.00	0.00	0.00	0.00
3973	-7997	-12579	34	1		0.00	55	0.00	0.00	0.00	0.00
3974	-6040	-7188	36	1		0.00	22	0.00	0.00	0.00	0.00
3975	-6041	-7189	36	1		0.00	22	0.00	0.00	0.00	0.00
3976	-4518	-6040	36	1		0.00	22	0.00	0.00	0.00	0.00
3977	-11787	-12559	53	13		0.00	22	0.00	0.00	0.00	0.00
3978	-11791	-12591	53	13		0.00	22	0.00	0.00	0.00	0.00
3979	-2529	-12573	50	13		0.00	55	0.00	0.00	0.00	-20.00
3980	-2530	-12577	50	13		0.00	55	0.00	0.00	0.00	-20.00
3981	-2492	-2602	32	1		0.00	55	0.00	0.00	0.00	0.00
3981	-2602	-3007	33	1		0.00	55	0.00	0.00	0.00	0.00
3981	-3007	-4377	34	1		0.00	55	0.00	0.00	0.00	0.00
3981	-4377	-7726	34	1		0.00	55	0.00	0.00	0.00	0.00
3981	-7726	-11793	34	1		0.00	55	0.00	0.00	0.00	0.00

3982	-2491	-2601	32	1		0.00	55	0.00	0.00	0.00	0.00
3982	-2601	-3006	33	1		0.00	55	0.00	0.00	0.00	0.00
3982	-3006	-4376	34	1		0.00	55	0.00	0.00	0.00	0.00
3982	-4376	-7725	34	1		0.00	55	0.00	0.00	0.00	0.00
3982	-7725	-11785	34	1		0.00	55	0.00	0.00	0.00	0.00
3983	-5832	-6973	36	1		0.00	22	0.00	0.00	0.00	0.00
3984	-5831	-6972	36	1		0.00	22	0.00	0.00	0.00	0.00
3985	-4376	-5831	36	1		0.00	22	0.00	0.00	0.00	0.00
3986	-4377	-5832	36	1		0.00	22	0.00	0.00	0.00	0.00
3987	-11103	-11773	53	13		0.00	22	0.00	0.00	0.00	0.00
3988	-11107	-11805	53	13		0.00	22	0.00	0.00	0.00	0.00
3991	-2529	-2664	32	1		0.00	55	0.00	0.00	0.00	0.00
3991	-2664	-2996	33	1		0.00	55	0.00	0.00	0.00	0.00
3991	-2996	-4237	34	1		0.00	55	0.00	0.00	0.00	0.00
3991	-4237	-7519	34	1		0.00	55	0.00	0.00	0.00	0.00
3991	-7519	-9118	34	1		0.00	55	0.00	0.00	0.00	0.00
3991	-9118	-11101	34	1		0.00	55	0.00	0.00	0.00	0.00
3992	-2530	-2665	32	1		0.00	55	0.00	0.00	0.00	0.00
3992	-2665	-2997	33	1		0.00	55	0.00	0.00	0.00	0.00
3992	-2997	-4181	34	1		0.00	55	0.00	0.00	0.00	0.00
3992	-4181	-7553	34	1		0.00	55	0.00	0.00	0.00	0.00
3992	-7553	-9122	34	1		0.00	55	0.00	0.00	0.00	0.00
3992	-9122	-11109	34	1		0.00	55	0.00	0.00	0.00	0.00
3995	-10352	-11121	53	13		0.00	22	0.00	0.00	0.00	0.00
3996	-10325	-11089	53	13		0.00	22	0.00	0.00	0.00	0.00
4117	2309	-2704	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-2704	-2944	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-2944	-3125	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-3125	-3351	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-3351	-3679	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-3679	-4185	68	1		0.00	55	0.00	0.00	0.00	0.00
4117	-4185	-5556	34	1		0.00	55	0.00	0.00	0.00	0.00
4117	-5556	-7068	34	1		0.00	55	0.00	0.00	0.00	0.00
4117	-7068	-7816	34	1		0.00	55	0.00	0.00	0.00	0.00
4117	-7816	-8584	34	1		0.00	55	0.00	0.00	0.00	0.00
4117	-8584	3502	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	2313	-2727	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-2727	-2946	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-2946	-3127	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-3127	-3353	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-3353	-3691	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-3691	-4197	68	1		0.00	55	0.00	0.00	0.00	0.00
4136	-4197	-5565	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	-5565	-6282	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	-6282	-7071	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	-7071	-7817	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	-7817	-8599	34	1		0.00	55	0.00	0.00	0.00	0.00
4136	-8599	3504	34	1		0.00	55	0.00	0.00	0.00	0.00
4221	3001	3201	36	1		0.00	22	0.00	0.00	0.00	0.00
4317	-9319	-9612	36	1		0.00	22	0.00	0.00	0.00	0.00
4317	-8921	-9319	36	1		0.00	22	0.00	0.00	0.00	0.00
4318	-9480	-10258	36	1		0.00	22	0.00	0.00	0.00	0.00
4319	-9650	-10915	36	1		0.00	22	0.00	0.00	0.00	0.00
4320	-9947	-11495	36	1		0.00	22	0.00	0.00	0.00	0.00
4321	-10202	-12116	36	1		0.00	22	0.00	0.00	0.00	0.00
4322	-10638	-12770	36	1		0.00	22	0.00	0.00	0.00	0.00
4323	-11287	-13415	36	1		0.00	22	0.00	0.00	0.00	0.00
4324	-11907	-13955	36	1		0.00	22	0.00	0.00	0.00	0.00
4325	-12553	-14556	36	1		0.00	22	0.00	0.00	0.00	0.00
4326	-13145	-15131	36	1		0.00	22	0.00	0.00	0.00	0.00
4327	-12555	-14558	36	1		0.00	22	0.00	0.00	0.00	0.00
4328	-11868	-13957	36	1		0.00	22	0.00	0.00	0.00	0.00
4329	-11291	-13417	36	1		0.00	22	0.00	0.00	0.00	0.00
4330	-10612	-12772	36	1		0.00	22	0.00	0.00	0.00	0.00
4331	-10206	-12130	36	1		0.00	22	0.00	0.00	0.00	0.00
4332	-9964	-11497	36	1		0.00	22	0.00	0.00	0.00	0.00
4333	-9656	-10876	36	1		0.00	22	0.00	0.00	0.00	0.00
4334	-9894	-10260	36	1		0.00	22	0.00	0.00	0.00	0.00
4334	-9469	-9894	36	1		0.00	22	0.00	0.00	0.00	0.00
4335	-9346	-9614	36	1		0.00	22	0.00	0.00	0.00	0.00
4335	-8957	-9346	36	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2914	-2945	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2915	-2914	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2916	-2915	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2917	-2916	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2918	-2917	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2919	-2918	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2920	-2919	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2921	-2920	52	1		0.00	22	0.00	0.00	0.00	0.00

4336	-2922	-2921	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2923	-2922	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2924	-2923	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2925	-2924	52	1		0.00	22	0.00	0.00	0.00	0.00
4336	-2946	-2925	52	1		0.00	22	0.00	0.00	0.00	0.00
4354	-10277	-10338	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10338	-10416	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10416	-10486	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10486	-10581	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10581	-10681	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10681	-10772	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10772	-10837	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10837	-10912	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10912	-10979	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-10979	-11060	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11060	-11122	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11122	-11188	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11188	-11254	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11254	-11326	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11326	-11392	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11392	-11462	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11462	-11532	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11532	-11602	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11602	-11676	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11676	-11740	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11740	-11806	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11806	-11861	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11861	-11994	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-11994	-12095	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12095	-12143	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12143	-12222	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12222	-12294	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12294	-12362	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12362	-12428	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12428	-12508	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12508	-12592	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12592	-12666	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12666	-12737	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12737	-12807	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12807	-12877	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12877	-12954	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12954	-13038	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13038	-13105	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13105	-13183	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13183	-13246	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13246	-13315	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13315	-13382	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13382	-13454	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13454	-13524	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13524	-13590	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13590	-13656	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13656	-13722	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13722	-13788	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13788	-13854	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13854	-13922	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13922	-13992	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13992	-14057	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14057	-14127	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14127	-14193	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14193	-14259	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14259	-14325	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14325	-14391	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14391	-14457	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14457	-14523	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14523	-14593	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14593	-14661	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14661	-14727	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14727	-14793	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14793	-14859	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14859	-14925	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14925	-14991	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14991	-15057	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15057	-15123	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15123	-15191	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15191	-15258	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15258	-15324	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15324	-15390	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15390	-15456	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15456	-15522	61	1		0.00	33	0.00	0.00	0.00	0.00



Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

4354	-15522	-15588	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15588	-15654	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15654	-15720	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15720	-15786	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15786	-15852	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15852	-15919	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15919	-15985	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15985	-16051	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16051	-16117	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16117	-16183	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16183	-16249	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16249	-16315	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16315	-16381	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16381	-16447	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16447	-16513	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16513	-16579	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16579	-16546	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16546	-16480	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16480	-16414	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16414	-16348	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16348	-16282	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16282	-16216	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16216	-16150	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16150	-16084	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16084	-16018	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-16018	-15952	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15952	-15886	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15886	-15819	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15819	-15753	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15753	-15687	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15687	-15621	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15621	-15555	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15555	-15489	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15489	-15423	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15423	-15357	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15357	-15291	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15291	-15225	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15225	-15158	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15158	-15090	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15090	-15024	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-15024	-14958	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14958	-14892	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14892	-14826	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14826	-14760	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14760	-14694	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14694	-14628	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14628	-14560	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14560	-14490	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14490	-14424	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14424	-14358	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14358	-14292	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14292	-14226	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14226	-14160	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14160	-14094	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14094	-14026	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-14026	-13959	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13959	-13889	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13889	-13821	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13821	-13755	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13755	-13689	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13689	-13623	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13623	-13557	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13557	-13491	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13491	-13421	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13421	-13349	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13349	-13282	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13282	-13213	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13213	-13146	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13146	-13123	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13123	-13005	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-13005	-12922	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12922	-12844	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12844	-12774	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12774	-12704	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12704	-12633	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12633	-12559	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12559	-12479	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12479	-12395	61	1		0.00	33	0.00	0.00	0.00	0.00
4354	-12395	-12329	61	1		0.00	33	0.00	0.00	0.00	0.00

4354	-12329	-12261	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-12261	-12189	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-12189	-12148	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-12148	-12041	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-12041	-11921	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11921	-11894	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11894	-11773	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11773	-11707	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11707	-11669	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11669	-11569	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11569	-11499	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11499	-11429	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11429	-11359	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11359	-11293	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11293	-11221	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11221	-11155	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11155	-11089	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11089	-11021	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-11021	-10946	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10946	-10877	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10877	-10805	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10805	-10739	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10739	-10657	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10657	-10629	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10629	-10453	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10453	-10385	61	1	0.00	33	0.00	0.00	0.00	0.00
4354	-10385	-10349	61	1	0.00	33	0.00	0.00	0.00	0.00
4356	-10361	-10290	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10423	-10361	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10500	-10423	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10590	-10500	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10702	-10590	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10786	-10702	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10858	-10786	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10893	-10858	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10993	-10893	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11071	-10993	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11136	-11071	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11202	-11136	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11268	-11202	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11340	-11268	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11406	-11340	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11476	-11406	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11546	-11476	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11616	-11546	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11688	-11616	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11754	-11688	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11820	-11754	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11884	-11820	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11980	-11884	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12098	-11980	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12113	-12098	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12236	-12113	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12308	-12236	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12376	-12308	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12442	-12376	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12529	-12442	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12606	-12529	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12680	-12606	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12751	-12680	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12821	-12751	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12891	-12821	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12973	-12891	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13052	-12973	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13128	-13052	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13194	-13128	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13260	-13194	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13329	-13260	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13396	-13329	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13468	-13396	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13538	-13468	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13604	-13538	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13670	-13604	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13736	-13670	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13802	-13736	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13868	-13802	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13936	-13868	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14006	-13936	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14077	-14006	54	1	180.00	44	0.00	0.00	1.00	1.00

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4356	-14141	-14077	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14207	-14141	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14273	-14207	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14339	-14273	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14405	-14339	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14471	-14405	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14537	-14471	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14607	-14537	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14675	-14607	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14741	-14675	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14807	-14741	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14873	-14807	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14939	-14873	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15005	-14939	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15071	-15005	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15141	-15071	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15205	-15141	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15272	-15205	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15338	-15272	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15404	-15338	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15470	-15404	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15536	-15470	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15602	-15536	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15668	-15602	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15734	-15668	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15800	-15734	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15866	-15800	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15933	-15866	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15999	-15933	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16065	-15999	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16131	-16065	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16197	-16131	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16263	-16197	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16329	-16263	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16395	-16329	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16461	-16395	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16527	-16461	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16593	-16527	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16560	-16593	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16494	-16560	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16428	-16494	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16362	-16428	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16296	-16362	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16230	-16296	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16164	-16230	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16098	-16164	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-16032	-16098	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15966	-16032	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15900	-15966	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15833	-15900	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15767	-15833	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15701	-15767	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15635	-15701	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15569	-15635	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15503	-15569	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15437	-15503	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15371	-15437	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15305	-15371	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15239	-15305	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15172	-15239	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15107	-15172	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-15038	-15107	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14972	-15038	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14906	-14972	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14840	-14906	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14774	-14840	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14708	-14774	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14642	-14708	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14574	-14642	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14504	-14574	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14438	-14504	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14372	-14438	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14306	-14372	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14240	-14306	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14174	-14240	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14108	-14174	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-14040	-14108	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13973	-14040	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13903	-13973	54	1	180.00	44	0.00	0.00	1.00	1.00

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4356	-13835	-13903	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13769	-13835	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13703	-13769	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13637	-13703	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13571	-13637	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13505	-13571	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13435	-13505	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13363	-13435	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13296	-13363	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13227	-13296	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13171	-13227	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13091	-13171	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-13019	-13091	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12936	-13019	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12858	-12936	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12788	-12858	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12718	-12788	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12647	-12718	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12573	-12647	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12490	-12573	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12409	-12490	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12343	-12409	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12275	-12343	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12203	-12275	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12140	-12203	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-12050	-12140	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11957	-12050	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11850	-11957	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11787	-11850	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11721	-11787	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11650	-11721	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11583	-11650	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11513	-11583	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11443	-11513	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11373	-11443	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11307	-11373	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11235	-11307	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11169	-11235	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11103	-11169	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-11043	-11103	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10960	-11043	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10889	-10960	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10819	-10889	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10753	-10819	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10667	-10753	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10575	-10667	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10467	-10575	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10398	-10467	54	1	180.00	44	0.00	0.00	1.00	1.00
4356	-10325	-10398	54	1	180.00	44	0.00	0.00	1.00	1.00
4358	-10365	-10294	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10443	-10365	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10504	-10443	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10591	-10504	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10705	-10591	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10790	-10705	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10861	-10790	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10932	-10861	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10997	-10932	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11075	-10997	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11140	-11075	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11206	-11140	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11272	-11206	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11344	-11272	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11410	-11344	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11480	-11410	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11550	-11480	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11620	-11550	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11692	-11620	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11758	-11692	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11824	-11758	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11887	-11824	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11982	-11887	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12036	-11982	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12162	-12036	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12240	-12162	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12312	-12240	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12380	-12312	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12446	-12380	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12532	-12446	54	1	270.00	55	1.00	1.00	0.00	0.00

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4358	-12610	-12532	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12684	-12610	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12755	-12684	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12825	-12755	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12895	-12825	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12963	-12895	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13056	-12963	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13118	-13056	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13198	-13118	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13264	-13198	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13333	-13264	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13400	-13333	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13472	-13400	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13542	-13472	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13608	-13542	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13674	-13608	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13740	-13674	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13806	-13740	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13872	-13806	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13940	-13872	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14010	-13940	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14080	-14010	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14145	-14080	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14211	-14145	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14277	-14211	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14343	-14277	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14409	-14343	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14475	-14409	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14541	-14475	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14611	-14541	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14679	-14611	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14745	-14679	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14811	-14745	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14877	-14811	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14943	-14877	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15009	-14943	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15075	-15009	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15145	-15075	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15209	-15145	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15276	-15209	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15342	-15276	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15408	-15342	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15474	-15408	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15540	-15474	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15606	-15540	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15672	-15606	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15738	-15672	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15804	-15738	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15870	-15804	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15937	-15870	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16003	-15937	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16069	-16003	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16135	-16069	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16201	-16135	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16267	-16201	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16333	-16267	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16399	-16333	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16465	-16399	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16531	-16465	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16597	-16531	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16564	-16597	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16498	-16564	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16432	-16498	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16366	-16432	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16300	-16366	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16234	-16300	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16168	-16234	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16102	-16168	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-16036	-16102	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15970	-16036	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15904	-15970	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15837	-15904	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15771	-15837	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15705	-15771	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15639	-15705	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15573	-15639	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15507	-15573	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15441	-15507	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15375	-15441	54	1	270.00	55	1.00	1.00	0.00	0.00

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4358	-15309	-15375	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15243	-15309	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15176	-15243	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15111	-15176	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-15042	-15111	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14976	-15042	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14910	-14976	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14844	-14910	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14778	-14844	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14712	-14778	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14646	-14712	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14578	-14646	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14508	-14578	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14442	-14508	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14376	-14442	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14310	-14376	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14244	-14310	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14178	-14244	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14112	-14178	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-14044	-14112	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13977	-14044	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13907	-13977	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13839	-13907	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13773	-13839	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13707	-13773	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13641	-13707	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13575	-13641	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13509	-13575	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13439	-13509	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13367	-13439	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13300	-13367	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13231	-13300	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13172	-13231	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13081	-13172	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-13023	-13081	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12940	-13023	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12862	-12940	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12792	-12862	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12722	-12792	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12651	-12722	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12577	-12651	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12494	-12577	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12413	-12494	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12347	-12413	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12279	-12347	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12207	-12279	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12169	-12207	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-12087	-12169	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11991	-12087	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11853	-11991	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11791	-11853	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11725	-11791	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11654	-11725	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11587	-11654	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11517	-11587	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11447	-11517	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11377	-11447	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11311	-11377	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11239	-11311	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11173	-11239	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11107	-11173	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-11036	-11107	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10964	-11036	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10901	-10964	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10823	-10901	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10757	-10823	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10670	-10757	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10538	-10670	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10471	-10538	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10402	-10471	54	1	270.00	55	1.00	1.00	0.00	0.00
4358	-10352	-10402	54	1	270.00	55	1.00	1.00	0.00	0.00
4360	-10307	-10381	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10381	-10451	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10451	-10518	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10518	-10627	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10627	-10718	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10718	-10804	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10804	-10873	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-10873	-10944	61	1	0.00	22	0.00	0.00	0.00	0.00

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4360	-10944	-11011	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11011	-11088	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11088	-11154	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11154	-11220	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11220	-11286	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11286	-11358	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11358	-11424	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11424	-11494	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11494	-11564	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11564	-11634	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11634	-11682	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11682	-11772	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11772	-11838	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11838	-11906	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-11906	-12003	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12003	-12072	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12072	-12173	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12173	-12254	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12254	-12326	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12326	-12394	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12394	-12460	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12460	-12543	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12543	-12624	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12624	-12698	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12698	-12769	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12769	-12839	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12839	-12909	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12909	-12989	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-12989	-13070	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13070	-13140	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13140	-13212	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13212	-13278	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13278	-13347	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13347	-13414	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13414	-13486	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13486	-13556	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13556	-13622	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13622	-13688	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13688	-13754	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13754	-13820	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13820	-13886	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13886	-13954	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-13954	-14024	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14024	-14091	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14091	-14159	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14159	-14225	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14225	-14291	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14291	-14357	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14357	-14423	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14423	-14489	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14489	-14555	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14555	-14625	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14625	-14693	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14693	-14759	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14759	-14825	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14825	-14891	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14891	-14957	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-14957	-15023	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15023	-15089	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15089	-15157	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15157	-15223	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15223	-15290	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15290	-15356	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15356	-15422	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15422	-15488	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15488	-15554	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15554	-15620	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15620	-15686	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15686	-15752	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15752	-15818	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15818	-15884	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15884	-15951	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-15951	-16017	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16017	-16083	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16083	-16149	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16149	-16215	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16215	-16281	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16281	-16347	61	1	0.00	22	0.00	0.00	0.00	0.00
4360	-16347	-16413	61	1	0.00	22	0.00	0.00	0.00	0.00

4360	-16413	-16479	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16479	-16545	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16545	-16611	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16611	-16578	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16578	-16512	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16512	-16446	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16446	-16380	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16380	-16314	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16314	-16248	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16248	-16182	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16182	-16116	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16116	-16050	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-16050	-15984	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15984	-15918	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15918	-15851	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15851	-15785	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15785	-15719	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15719	-15653	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15653	-15587	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15587	-15521	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15521	-15455	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15455	-15389	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15389	-15323	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15323	-15257	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15257	-15190	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15190	-15122	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15122	-15056	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-15056	-14990	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14990	-14924	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14924	-14858	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14858	-14792	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14792	-14726	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14726	-14660	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14660	-14592	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14592	-14522	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14522	-14456	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14456	-14390	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14390	-14324	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14324	-14258	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14258	-14192	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14192	-14126	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14126	-14056	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-14056	-13991	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13991	-13921	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13921	-13853	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13853	-13787	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13787	-13721	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13721	-13655	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13655	-13589	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13589	-13523	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13523	-13453	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13453	-13381	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13381	-13314	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13314	-13245	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13245	-13182	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13182	-13104	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13104	-13037	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-13037	-12953	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12953	-12876	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12876	-12806	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12806	-12736	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12736	-12665	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12665	-12591	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12591	-12507	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12507	-12427	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12427	-12361	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12361	-12293	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12293	-12221	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12221	-12156	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12156	-12059	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-12059	-11966	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11966	-11875	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11875	-11805	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11805	-11739	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11739	-11675	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11675	-11601	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11601	-11531	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11531	-11461	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11461	-11391	61	1		0.00	22	0.00	0.00	0.00	0.00



4360	-11391	-11325	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11325	-11253	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11253	-11187	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11187	-11121	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11121	-11059	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-11059	-10978	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10978	-10911	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10911	-10836	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10836	-10771	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10771	-10680	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10680	-10580	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10580	-10485	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10485	-10415	61	1		0.00	22	0.00	0.00	0.00	0.00
4360	-10415	-10337	61	1		0.00	22	0.00	0.00	0.00	0.00
4662	-2524	-2663	32	1		0.00	55	0.00	0.00	0.00	0.00
4662	-2663	-2995	33	1		0.00	55	0.00	0.00	0.00	0.00
4662	-2995	-4464	34	1		0.00	55	0.00	0.00	0.00	0.00
4662	-4464	-6027	34	1		0.00	55	0.00	0.00	0.00	0.00
4662	-6027	-7518	34	1		0.00	55	0.00	0.00	0.00	0.00
4662	-7518	-9159	34	1		0.00	55	0.00	0.00	0.00	0.00
4662	-9159	-11077	34	1		0.00	55	0.00	0.00	0.00	0.00
4665	-4472	-5624	36	1		0.00	22	0.00	0.00	0.00	0.00
4668	-5830	-6969	36	1		0.00	22	0.00	0.00	0.00	0.00
4676	-4971	-6038	36	1		0.00	22	0.00	0.00	0.00	0.00
4677	-2480	-2569	32	1		0.00	55	0.00	0.00	0.00	0.00
4677	-2569	-3011	33	1		0.00	55	0.00	0.00	0.00	0.00
4677	-3011	-4998	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-4998	-5913	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-5913	-6971	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-6971	-7991	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-7991	-8789	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-8789	-9572	34	1		0.00	55	0.00	0.00	0.00	0.00
4677	-9572	-12534	34	1		0.00	55	0.00	0.00	0.00	0.00
4686	-6233	-7316	36	1		0.00	22	0.00	0.00	0.00	0.00
4688	-6439	-7562	36	1		0.00	22	0.00	0.00	0.00	0.00
4695	-5612	-6676	36	1		0.00	22	0.00	0.00	0.00	0.00
4706	-6902	-8017	36	1		0.00	22	0.00	0.00	0.00	0.00
4707	-6924	-8018	36	1		0.00	22	0.00	0.00	0.00	0.00
4712	-6033	-7151	36	1		0.00	22	0.00	0.00	0.00	0.00
4713	-7152	-8289	36	1		0.00	22	0.00	0.00	0.00	0.00
4719	-7308	-8463	36	1		0.00	22	0.00	0.00	0.00	0.00
4735	-5563	-6925	36	1		0.00	22	0.00	0.00	0.00	0.00
4741	-5566	-6888	36	1		0.00	22	0.00	0.00	0.00	0.00
4789	-4237	-5638	36	1		0.00	22	0.00	0.00	0.00	0.00
4998	3501	-10359	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10359	-10440	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10440	-10498	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10498	-10588	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10588	-10700	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10700	-10784	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10784	-10842	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10842	-10927	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10927	-10991	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10991	-11069	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11069	-11134	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11134	-11200	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11200	-11266	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11266	-11338	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11338	-11404	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11404	-11474	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11474	-11544	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11544	-11614	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11614	-11686	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11686	-11752	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11752	-11818	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11818	-11882	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11882	-12009	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12009	-12097	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12097	-12160	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12160	-12234	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12234	-12306	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12306	-12374	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12374	-12440	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12440	-12547	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12547	-12604	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12604	-12678	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12678	-12749	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12749	-12819	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12819	-12889	38	1		0.00	11	0.00	0.00	0.00	0.00



Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

4998	-15036	-14970	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14970	-14904	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14904	-14838	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14838	-14772	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14772	-14706	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14706	-14640	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14640	-14572	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14572	-14502	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14502	-14436	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14436	-14370	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14370	-14304	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14304	-14238	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14238	-14172	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14172	-14106	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14106	-14038	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-14038	-13971	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13971	-13901	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13901	-13833	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13833	-13767	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13767	-13701	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13701	-13635	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13635	-13569	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13569	-13503	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13503	-13433	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13433	-13361	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13361	-13294	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13294	-13225	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13225	-13158	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13158	-13089	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13089	-13017	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-13017	-12934	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12934	-12856	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12856	-12786	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12786	-12716	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12716	-12645	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12645	-12571	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12571	-12488	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12488	-12407	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12407	-12341	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12341	-12273	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12273	-12201	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12201	-12181	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12181	-12049	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-12049	-11930	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11930	-11848	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11848	-11785	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11785	-11719	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11719	-11648	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11648	-11581	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11581	-11511	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11511	-11441	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11441	-11371	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11371	-11305	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11305	-11233	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11233	-11167	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11167	-11101	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11101	-11031	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-11031	-10958	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10958	-10897	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10897	-10851	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10851	-10751	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10751	-10665	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10665	-10624	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10624	-10465	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10465	-10396	38	1		0.00	11	0.00	0.00	0.00	0.00
4998	-10396	3503	38	1		0.00	11	0.00	0.00	0.00	0.00
4999	3502	-10376	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10376	-10426	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10426	-10506	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10506	-10541	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10541	-10707	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10707	-10792	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10792	-10844	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10844	-10934	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10934	-10999	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10999	-11077	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11077	-11142	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11142	-11208	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11208	-11274	38	1		0.00	33	0.00	0.00	0.00	0.00

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4999	-11274	-11346	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11346	-11412	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11412	-11482	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11482	-11552	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11552	-11622	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11622	-11694	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11694	-11760	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11760	-11826	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11826	-11898	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11898	-11940	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-11940	-12053	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12053	-12163	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12163	-12242	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12242	-12314	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12314	-12382	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12382	-12448	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12448	-12534	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12534	-12612	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12612	-12686	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12686	-12757	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12757	-12827	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12827	-12897	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12897	-12964	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-12964	-13058	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13058	-13120	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13120	-13200	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13200	-13266	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13266	-13335	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13335	-13402	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13402	-13474	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13474	-13544	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13544	-13610	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13610	-13676	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13676	-13742	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13742	-13808	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13808	-13874	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13874	-13942	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-13942	-14012	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14012	-14081	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14081	-14147	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14147	-14213	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14213	-14279	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14279	-14345	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14345	-14411	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14411	-14477	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14477	-14543	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14543	-14613	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14613	-14681	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14681	-14747	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14747	-14813	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14813	-14879	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14879	-14945	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-14945	-15011	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15011	-15077	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15077	-15147	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15147	-15211	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15211	-15278	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15278	-15344	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15344	-15410	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15410	-15476	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15476	-15542	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15542	-15608	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15608	-15674	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15674	-15740	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15740	-15806	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15806	-15872	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15872	-15939	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-15939	-16005	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16005	-16071	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16071	-16137	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16137	-16203	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16203	-16269	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16269	-16335	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16335	-16401	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16401	-16467	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16467	-16533	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16533	-16599	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16599	-16566	38	1	0.00	33	0.00	0.00	0.00	0.00
4999	-16566	-16500	38	1	0.00	33	0.00	0.00	0.00	0.00

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4999	-16500	-16434	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16434	-16368	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16368	-16302	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16302	-16236	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16236	-16170	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16170	-16104	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16104	-16038	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-16038	-15972	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15972	-15906	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15906	-15839	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15839	-15773	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15773	-15707	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15707	-15641	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15641	-15575	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15575	-15509	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15509	-15443	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15443	-15377	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15377	-15311	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15311	-15245	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15245	-15178	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15178	-15113	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15113	-15044	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-15044	-14978	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14978	-14912	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14912	-14846	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14846	-14780	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14780	-14714	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14714	-14648	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14648	-14580	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14580	-14510	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14510	-14444	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14444	-14378	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14378	-14312	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14312	-14246	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14246	-14180	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14180	-14114	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14114	-14069	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-14069	-13979	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13979	-13909	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13909	-13841	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13841	-13775	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13775	-13709	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13709	-13643	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13643	-13577	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13577	-13511	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13511	-13441	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13441	-13369	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13369	-13302	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13302	-13233	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13233	-13164	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13164	-13095	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13095	-13025	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-13025	-12942	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12942	-12864	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12864	-12794	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12794	-12724	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12724	-12653	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12653	-12579	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12579	-12524	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12524	-12415	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12415	-12349	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12349	-12281	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12281	-12209	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12209	-12182	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12182	-12058	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-12058	-11933	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11933	-11855	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11855	-11793	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11793	-11727	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11727	-11656	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11656	-11589	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11589	-11519	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11519	-11449	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11449	-11379	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11379	-11313	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11313	-11241	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11241	-11175	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11175	-11109	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-11109	-11054	38	1		0.00	33	0.00	0.00	0.00	0.00

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4999	-11054	-10966	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10966	-10890	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10890	-10825	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10825	-10759	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10759	-10671	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10671	-10576	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10576	-10473	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10473	-10404	38	1		0.00	33	0.00	0.00	0.00	0.00
4999	-10404	3504	38	1		0.00	33	0.00	0.00	0.00	0.00
5115	-7760	-8921	36	1		0.00	22	0.00	0.00	0.00	0.00
5116	-8387	-9480	36	1		0.00	22	0.00	0.00	0.00	0.00
5117	-8549	-9650	36	1		0.00	22	0.00	0.00	0.00	0.00
5118	-8844	-9947	36	1		0.00	22	0.00	0.00	0.00	0.00
5119	-9105	-10202	36	1		0.00	22	0.00	0.00	0.00	0.00
5120	-9303	-10638	36	1		0.00	22	0.00	0.00	0.00	0.00
5121	-9513	-11287	36	1		0.00	22	0.00	0.00	0.00	0.00
5122	-9660	-11907	36	1		0.00	22	0.00	0.00	0.00	0.00
5123	-9985	-12553	36	1		0.00	22	0.00	0.00	0.00	0.00
5124	-10212	-13145	36	1		0.00	22	0.00	0.00	0.00	0.00
5125	-9989	-12555	36	1		0.00	22	0.00	0.00	0.00	0.00
5126	-9664	-11868	36	1		0.00	22	0.00	0.00	0.00	0.00
5127	-9519	-11291	36	1		0.00	22	0.00	0.00	0.00	0.00
5128	-9326	-10612	36	1		0.00	22	0.00	0.00	0.00	0.00
5129	-9113	-10206	36	1		0.00	22	0.00	0.00	0.00	0.00
5130	-8860	-9964	36	1		0.00	22	0.00	0.00	0.00	0.00
5131	-8555	-9656	36	1		0.00	22	0.00	0.00	0.00	0.00
5132	-8395	-9469	36	1		0.00	22	0.00	0.00	0.00	0.00
5133	-7774	-8957	36	1		0.00	22	0.00	0.00	0.00	0.00
5134	-4197	-5159	36	1		0.00	22	0.00	0.00	0.00	0.00
5466	-2490	-2600	32	1		0.00	55	0.00	0.00	0.00	0.00
5466	-2600	-2998	33	1		0.00	55	0.00	0.00	0.00	0.00
5466	-2998	-4785	34	1		0.00	55	0.00	0.00	0.00	0.00
5466	-4785	-6208	34	1		0.00	55	0.00	0.00	0.00	0.00
5466	-6208	-7724	34	1		0.00	55	0.00	0.00	0.00	0.00
5466	-7724	-8510	34	1		0.00	55	0.00	0.00	0.00	0.00
5466	-8510	-9386	34	1		0.00	55	0.00	0.00	0.00	0.00
5466	-9386	-11760	34	1		0.00	55	0.00	0.00	0.00	0.00
5484	-5217	-6233	36	1		0.00	22	0.00	0.00	0.00	0.00
5486	-6675	-7767	36	1		0.00	22	0.00	0.00	0.00	0.00
5493	-6440	-7552	36	1		0.00	22	0.00	0.00	0.00	0.00
5504	-5809	-6902	36	1		0.00	22	0.00	0.00	0.00	0.00
5505	-2429	-2517	32	1		0.00	55	0.00	0.00	0.00	0.00
5505	-2517	-3071	33	1		0.00	55	0.00	0.00	0.00	0.00
5505	-3071	-5810	34	1		0.00	55	0.00	0.00	0.00	0.00
5505	-5810	-8968	34	1		0.00	55	0.00	0.00	0.00	0.00
5505	-8968	-15278	34	1		0.00	55	0.00	0.00	0.00	0.00
5511	-2421	-2511	32	1		0.00	55	0.00	0.00	0.00	0.00
5511	-2511	-3095	33	1		0.00	55	0.00	0.00	0.00	0.00
5511	-3095	-6034	34	1		0.00	55	0.00	0.00	0.00	0.00
5511	-6034	-9167	34	1		0.00	55	0.00	0.00	0.00	0.00
5511	-9167	-15939	34	1		0.00	55	0.00	0.00	0.00	0.00
5517	-2418	-2501	32	1		0.00	55	0.00	0.00	0.00	0.00
5517	-2501	-3104	33	1		0.00	55	0.00	0.00	0.00	0.00
5517	-3104	-6010	34	1		0.00	55	0.00	0.00	0.00	0.00
5517	-6010	-9432	34	1		0.00	55	0.00	0.00	0.00	0.00
5517	-9432	-16599	34	1		0.00	55	0.00	0.00	0.00	0.00
5539	-6686	-7770	36	1		0.00	22	0.00	0.00	0.00	0.00
5913	-7179	-7760	36	1		0.00	22	0.00	0.00	0.00	0.00
5914	-7676	-8387	36	1		0.00	22	0.00	0.00	0.00	0.00
5915	-7938	-8549	36	1		0.00	22	0.00	0.00	0.00	0.00
5916	-8166	-8844	36	1		0.00	22	0.00	0.00	0.00	0.00
5917	-8391	-9105	36	1		0.00	22	0.00	0.00	0.00	0.00
5918	-8551	-9303	36	1		0.00	22	0.00	0.00	0.00	0.00
5919	-8848	-9513	36	1		0.00	22	0.00	0.00	0.00	0.00
5920	-9101	-9660	36	1		0.00	22	0.00	0.00	0.00	0.00
5921	-9306	-9985	36	1		0.00	22	0.00	0.00	0.00	0.00
5922	-9517	-10212	36	1		0.00	22	0.00	0.00	0.00	0.00
5923	-9307	-9989	36	1		0.00	22	0.00	0.00	0.00	0.00
5924	-9111	-9664	36	1		0.00	22	0.00	0.00	0.00	0.00
5925	-8858	-9519	36	1		0.00	22	0.00	0.00	0.00	0.00
5926	-8553	-9326	36	1		0.00	22	0.00	0.00	0.00	0.00
5927	-8393	-9113	36	1		0.00	22	0.00	0.00	0.00	0.00
5928	-8184	-8860	36	1		0.00	22	0.00	0.00	0.00	0.00
5929	-7940	-8555	36	1		0.00	22	0.00	0.00	0.00	0.00
5930	-7677	-8395	36	1		0.00	22	0.00	0.00	0.00	0.00
5931	-7190	-7774	36	1		0.00	22	0.00	0.00	0.00	0.00
6284	-5611	-6675	36	1		0.00	22	0.00	0.00	0.00	0.00
6291	-6676	-7768	36	1		0.00	22	0.00	0.00	0.00	0.00
6337	-6888	-8020	36	1		0.00	22	0.00	0.00	0.00	0.00

6711	-6201	-7179	36	1		0.00	22	0.00	0.00	0.00	0.00
6712	-6722	-7676	36	1		0.00	22	0.00	0.00	0.00	0.00
6713	-6968	-7938	36	1		0.00	22	0.00	0.00	0.00	0.00
6714	-7181	-8166	36	1		0.00	22	0.00	0.00	0.00	0.00
6715	-13247	-13246	47	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13248	-13247	47	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13249	-13248	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13250	-13249	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13251	-13250	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13252	-13251	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13253	-13252	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13254	-13253	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13255	-13254	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13256	-13255	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13257	-13256	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13258	-13257	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13259	-13258	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13260	-13259	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13261	-13260	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13262	-13261	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13263	-13262	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13264	-13263	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13265	-13264	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13266	-13265	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13267	-13266	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13268	-13267	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13269	-13268	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13270	-13269	35	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13271	-13270	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13272	-13271	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13273	-13272	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13274	-13273	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13275	-13274	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13276	-13275	37	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13277	-13276	47	1		180.00	88	0.00	0.00	0.00	0.00
6715	-13278	-13277	47	1		180.00	88	0.00	0.00	0.00	0.00
6716	-7562	-8551	36	1		0.00	22	0.00	0.00	0.00	0.00
6717	-7767	-8848	36	1		0.00	22	0.00	0.00	0.00	0.00
6718	-8017	-9101	36	1		0.00	22	0.00	0.00	0.00	0.00
6719	-8288	-9306	36	1		0.00	22	0.00	0.00	0.00	0.00
6720	-8462	-9517	36	1		0.00	22	0.00	0.00	0.00	0.00
6721	-8290	-9307	36	1		0.00	22	0.00	0.00	0.00	0.00
6722	-8019	-9111	36	1		0.00	22	0.00	0.00	0.00	0.00
6723	-7769	-8858	36	1		0.00	22	0.00	0.00	0.00	0.00
6724	-7563	-8553	36	1		0.00	22	0.00	0.00	0.00	0.00
6725	-7320	-8393	36	1		0.00	22	0.00	0.00	0.00	0.00
6726	-7188	-8184	36	1		0.00	22	0.00	0.00	0.00	0.00
6727	-6972	-7940	36	1		0.00	22	0.00	0.00	0.00	0.00
6728	-6737	-7677	36	1		0.00	22	0.00	0.00	0.00	0.00
6729	-6204	-7190	36	1		0.00	22	0.00	0.00	0.00	0.00
7082	-5385	-6439	36	1		0.00	22	0.00	0.00	0.00	0.00
7089	-7317	-8392	36	1		0.00	22	0.00	0.00	0.00	0.00
7135	-7564	-8554	36	1		0.00	22	0.00	0.00	0.00	0.00
7509	-5144	-6201	36	1		0.00	22	0.00	0.00	0.00	0.00
7510	-5624	-6722	36	1		0.00	22	0.00	0.00	0.00	0.00
7511	-11741	-11740	47	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11742	-11741	47	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11743	-11742	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11744	-11743	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11745	-11744	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11746	-11745	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11747	-11746	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11748	-11747	37	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11749	-11748	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11750	-11749	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11751	-11750	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11752	-11751	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11753	-11752	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11754	-11753	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11755	-11754	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11756	-11755	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11757	-11756	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11758	-11757	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11759	-11758	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11760	-11759	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11761	-11760	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11762	-11761	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11763	-11762	35	1		180.00	88	0.00	0.00	0.00	0.00
7511	-11764	-11763	35	1		180.00	88	0.00	0.00	0.00	0.00











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7524	-12577	-12576	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12578	-12577	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12579	-12578	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12580	-12579	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12581	-12580	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12582	-12581	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12583	-12582	35	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12584	-12583	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12585	-12584	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12586	-12585	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12587	-12586	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12588	-12587	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12589	-12588	37	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12590	-12589	47	1	180.00	88	0.00	0.00	0.00	0.00
7524	-12591	-12590	47	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11774	-11773	47	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11775	-11774	47	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11776	-11775	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11777	-11776	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11778	-11777	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11779	-11778	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11780	-11779	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11781	-11780	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11782	-11781	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11783	-11782	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11784	-11783	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11785	-11784	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11786	-11785	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11787	-11786	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11788	-11787	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11789	-11788	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11790	-11789	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11791	-11790	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11792	-11791	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11793	-11792	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11794	-11793	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11795	-11794	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11796	-11795	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11797	-11796	35	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11798	-11797	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11799	-11798	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11800	-11799	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11801	-11800	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11802	-11801	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11803	-11802	37	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11804	-11803	47	1	180.00	88	0.00	0.00	0.00	0.00
7525	-11805	-11804	47	1	180.00	88	0.00	0.00	0.00	0.00
7526	-5638	-6737	36	1	0.00	22	0.00	0.00	0.00	0.00
7527	-5152	-6204	36	1	0.00	22	0.00	0.00	0.00	0.00
7933	-8185	-8863	36	1	0.00	22	0.00	0.00	0.00	0.00
8307	-4185	-5147	36	1	0.00	22	0.00	0.00	0.00	0.00
8308	-11061	-11060	47	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11062	-11061	47	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11038	-11062	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11063	-11038	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11050	-11063	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11051	-11050	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11064	-11051	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11065	-11064	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11066	-11065	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11067	-11066	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11068	-11067	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11069	-11068	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11070	-11069	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11071	-11070	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11072	-11071	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11073	-11072	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11074	-11073	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11075	-11074	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11076	-11075	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11077	-11076	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11078	-11077	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11079	-11078	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11080	-11079	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11081	-11080	35	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11082	-11081	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11083	-11082	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11084	-11083	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11039	-11084	37	1	180.00	88	0.00	0.00	0.00	0.00

8308	-11085	-11039	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11086	-11085	37	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11087	-11086	47	1	180.00	88	0.00	0.00	0.00	0.00
8308	-11088	-11087	47	1	180.00	88	0.00	0.00	0.00	0.00
8309	-6969	-7939	36	1	0.00	22	0.00	0.00	0.00	0.00
8310	-12509	-12508	47	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12510	-12509	47	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12511	-12510	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12512	-12511	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12513	-12512	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12525	-12513	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12514	-12525	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12515	-12514	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12516	-12515	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12526	-12516	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12527	-12526	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12547	-12527	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12528	-12547	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12529	-12528	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12517	-12529	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12530	-12517	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12531	-12530	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12532	-12531	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12533	-12532	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12534	-12533	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12548	-12534	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12535	-12548	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12549	-12535	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12536	-12549	35	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12537	-12536	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12538	-12537	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12539	-12538	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12550	-12539	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12540	-12550	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12541	-12540	37	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12542	-12541	47	1	180.00	88	0.00	0.00	0.00	0.00
8310	-12543	-12542	47	1	180.00	88	0.00	0.00	0.00	0.00
8311	-9107	-10203	36	1	0.00	22	0.00	0.00	0.00	0.00
8312	-7552	-8552	36	1	0.00	22	0.00	0.00	0.00	0.00
8313	-7768	-8849	36	1	0.00	22	0.00	0.00	0.00	0.00
8314	-8018	-9108	36	1	0.00	22	0.00	0.00	0.00	0.00
8315	-8289	-9323	36	1	0.00	22	0.00	0.00	0.00	0.00
8316	-8463	-9518	36	1	0.00	22	0.00	0.00	0.00	0.00
8317	-7153	-8291	36	1	0.00	22	0.00	0.00	0.00	0.00
8318	-15292	-15291	47	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15293	-15292	47	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15294	-15293	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15295	-15294	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15296	-15295	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15297	-15296	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15298	-15297	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15299	-15298	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15300	-15299	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15301	-15300	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15302	-15301	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15303	-15302	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15304	-15303	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15305	-15304	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15306	-15305	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15307	-15306	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15308	-15307	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15309	-15308	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15310	-15309	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15311	-15310	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15312	-15311	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15313	-15312	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15314	-15313	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15315	-15314	35	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15316	-15315	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15317	-15316	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15318	-15317	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15319	-15318	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15320	-15319	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15321	-15320	37	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15322	-15321	47	1	180.00	88	0.00	0.00	0.00	0.00
8318	-15323	-15322	47	1	180.00	88	0.00	0.00	0.00	0.00
8319	-7770	-8859	36	1	0.00	22	0.00	0.00	0.00	0.00
8320	-8554	-9309	36	1	0.00	22	0.00	0.00	0.00	0.00
8321	-7321	-8394	36	1	0.00	22	0.00	0.00	0.00	0.00

8322	-7189	-8185	36	1		0.00	22	0.00	0.00	0.00	0.00	
8323	-6973	-7941	36	1		0.00	22	0.00	0.00	0.00	0.00	
8324	-11090	-11089	47	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11091	-11090	47	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11092	-11091	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11093	-11092	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11094	-11093	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11095	-11094	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11096	-11095	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11097	-11096	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11098	-11097	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11099	-11098	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11100	-11099	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11101	-11100	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11102	-11101	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11103	-11102	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11104	-11103	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11105	-11104	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11106	-11105	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11107	-11106	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11108	-11107	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11109	-11108	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11110	-11109	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11111	-11110	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11112	-11111	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11113	-11112	35	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11114	-11113	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11115	-11114	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11116	-11115	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11117	-11116	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11118	-11117	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11119	-11118	37	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11120	-11119	47	1		180.00	88	0.00	0.00	0.00	0.00	
8324	-11121	-11120	47	1		180.00	88	0.00	0.00	0.00	0.00	
8325	-5159	-6205	36	1		0.00	22	0.00	0.00	0.00	0.00	
9105	-5147	-6202	36	1		0.00	22	0.00	0.00	0.00	0.00	
9106	-5625	-6723	36	1		0.00	22	0.00	0.00	0.00	0.00	
9107	-7939	-8550	36	1		0.00	22	0.00	0.00	0.00	0.00	
9108	-6039	-7187	36	1		0.00	22	0.00	0.00	0.00	0.00	
9109	-10203	-12117	36	1		0.00	22	0.00	0.00	0.00	0.00	
9110	-8552	-9322	36	1		0.00	22	0.00	0.00	0.00	0.00	
9111	-8849	-9516	36	1		0.00	22	0.00	0.00	0.00	0.00	
9112	-9108	-9663	36	1		0.00	22	0.00	0.00	0.00	0.00	
9113	-9323	-9988	36	1		0.00	22	0.00	0.00	0.00	0.00	
9114	-9518	-10213	36	1		0.00	22	0.00	0.00	0.00	0.00	
9115	-8291	-9324	36	1		0.00	22	0.00	0.00	0.00	0.00	
9116	-8020	-9112	36	1		0.00	22	0.00	0.00	0.00	0.00	
9117	-8859	-9522	36	1		0.00	22	0.00	0.00	0.00	0.00	
9118	-9309	-10642	36	1		0.00	22	0.00	0.00	0.00	0.00	
9119	-8394	-9121	36	1		0.00	22	0.00	0.00	0.00	0.00	
9120	-8863	-9952	36	1		0.00	22	0.00	0.00	0.00	0.00	
9121	-7941	-8558	36	1		0.00	22	0.00	0.00	0.00	0.00	
9122	-4181	-5639	36	1		0.00	22	0.00	0.00	0.00	0.00	
9122	-5639	-6738	36	1		0.00	22	0.00	0.00	0.00	0.00	
9123	-6205	-7192	36	1		0.00	22	0.00	0.00	0.00	0.00	
9903	-6202	-7186	36	1		0.00	22	0.00	0.00	0.00	0.00	
9904	-6723	-7644	36	1		0.00	22	0.00	0.00	0.00	0.00	
9905	-8550	-9651	36	1		0.00	22	0.00	0.00	0.00	0.00	
9906	-7187	-8167	36	1		0.00	22	0.00	0.00	0.00	0.00	
9907	-12117	-13276	36	1		0.00	22	0.00	0.00	0.00	0.00	
9908	-9322	-10639	36	1		0.00	22	0.00	0.00	0.00	0.00	
9909	-9516	-11288	36	1		0.00	22	0.00	0.00	0.00	0.00	
9910	-9663	-11908	36	1		0.00	22	0.00	0.00	0.00	0.00	
9911	-9988	-12554	36	1		0.00	22	0.00	0.00	0.00	0.00	
9912	-10213	-13170	36	1		0.00	22	0.00	0.00	0.00	0.00	
9913	-9324	-9992	36	1		0.00	22	0.00	0.00	0.00	0.00	
9914	-9112	-9667	36	1		0.00	22	0.00	0.00	0.00	0.00	
9915	-9522	-11292	36	1		0.00	22	0.00	0.00	0.00	0.00	
9916	-10642	-12773	36	1		0.00	22	0.00	0.00	0.00	0.00	
9917	-9121	-10207	36	1		0.00	22	0.00	0.00	0.00	0.00	
9918	-9952	-11498	36	1		0.00	22	0.00	0.00	0.00	0.00	
9919	-8558	-9657	36	1		0.00	22	0.00	0.00	0.00	0.00	
9920	-6738	-7678	36	1		0.00	22	0.00	0.00	0.00	0.00	
9921	-7192	-7784	36	1		0.00	22	0.00	0.00	0.00	0.00	
10701	-7186	-7762	36	1		0.00	22	0.00	0.00	0.00	0.00	
10702	-7644	-8390	36	1		0.00	22	0.00	0.00	0.00	0.00	
10703	-9651	-10875	36	1		0.00	22	0.00	0.00	0.00	0.00	
10704	-8167	-8847	36	1		0.00	22	0.00	0.00	0.00	0.00	
10706	-10639	-12771	36	1		0.00	22	0.00	0.00	0.00	0.00	

10707	-11288	-13416	36	1		0.00	22	0.00	0.00	0.00	0.00	
10708	-11908	-13956	36	1		0.00	22	0.00	0.00	0.00	0.00	
10709	-12554	-14557	36	1		0.00	22	0.00	0.00	0.00	0.00	
10710	-13170	-15098	36	1		0.00	22	0.00	0.00	0.00	0.00	
10711	-9992	-12518	36	1		0.00	22	0.00	0.00	0.00	0.00	
10712	-9667	-11893	36	1		0.00	22	0.00	0.00	0.00	0.00	
10713	-11292	-13418	36	1		0.00	22	0.00	0.00	0.00	0.00	
10714	-12773	-13420	36	1		0.00	22	0.00	0.00	0.00	0.00	
10714	-13420	-13989	36	1		0.00	22	0.00	0.00	0.00	0.00	
10715	-10207	-12131	36	1		0.00	22	0.00	0.00	0.00	0.00	
10716	-11498	-12589	36	1		0.00	22	0.00	0.00	0.00	0.00	
10717	-9657	-10895	36	1		0.00	22	0.00	0.00	0.00	0.00	
10718	-7678	-8398	36	1		0.00	22	0.00	0.00	0.00	0.00	
10719	-7784	-8958	36	1		0.00	22	0.00	0.00	0.00	0.00	
11499	-7762	-8931	36	1		0.00	22	0.00	0.00	0.00	0.00	
11500	-8390	-9508	36	1		0.00	22	0.00	0.00	0.00	0.00	
11501	-10875	-11770	36	1		0.00	22	0.00	0.00	0.00	0.00	
11502	-8847	-9949	36	1		0.00	22	0.00	0.00	0.00	0.00	
11504	-12771	-13952	36	1		0.00	22	0.00	0.00	0.00	0.00	
11505	-13416	-14623	36	1		0.00	22	0.00	0.00	0.00	0.00	
11506	-13956	-15288	36	1		0.00	22	0.00	0.00	0.00	0.00	
11507	-14557	-15949	36	1		0.00	22	0.00	0.00	0.00	0.00	
11508	-15098	-16609	36	1		0.00	22	0.00	0.00	0.00	0.00	
11509	-12518	-14559	36	1		0.00	22	0.00	0.00	0.00	0.00	
11510	-11893	-13958	36	1		0.00	22	0.00	0.00	0.00	0.00	
11511	-13418	-14658	36	1		0.00	22	0.00	0.00	0.00	0.00	
11513	-12131	-13312	36	1		0.00	22	0.00	0.00	0.00	0.00	
11515	-10895	-11803	36	1		0.00	22	0.00	0.00	0.00	0.00	
11516	-8398	-9490	36	1		0.00	22	0.00	0.00	0.00	0.00	
11517	-8958	-9347	36	1		0.00	22	0.00	0.00	0.00	0.00	
11517	-9347	-9615	36	1		0.00	22	0.00	0.00	0.00	0.00	
12297	-8931	-9320	36	1		0.00	22	0.00	0.00	0.00	0.00	
12297	-9320	-9613	36	1		0.00	22	0.00	0.00	0.00	0.00	
12298	-9508	-9864	36	1		0.00	22	0.00	0.00	0.00	0.00	
12298	-9864	-10259	36	1		0.00	22	0.00	0.00	0.00	0.00	
12300	-9949	-10432	36	1		0.00	22	0.00	0.00	0.00	0.00	
12300	-10432	-11496	36	1		0.00	22	0.00	0.00	0.00	0.00	
12307	-14559	-15982	36	1		0.00	22	0.00	0.00	0.00	0.00	
12308	-13958	-15321	36	1		0.00	22	0.00	0.00	0.00	0.00	
12314	-9490	-9895	36	1		0.00	22	0.00	0.00	0.00	0.00	
12314	-9895	-10261	36	1		0.00	22	0.00	0.00	0.00	0.00	
12315	-9615	-10009	36	1		0.00	22	0.00	0.00	0.00	0.00	
12315	-10009	-10335	36	1		0.00	22	0.00	0.00	0.00	0.00	
13095	-9613	-9882	36	1		0.00	22	0.00	0.00	0.00	0.00	
13095	-9882	-10305	36	1		0.00	22	0.00	0.00	0.00	0.00	
13096	-10259	-10634	36	1		0.00	22	0.00	0.00	0.00	0.00	
13096	-10634	-11086	36	1		0.00	22	0.00	0.00	0.00	0.00	
13098	-11496	-12005	36	1		0.00	22	0.00	0.00	0.00	0.00	
13098	-12005	-12541	36	1		0.00	22	0.00	0.00	0.00	0.00	
13112	-10261	-10649	36	1		0.00	22	0.00	0.00	0.00	0.00	
13112	-10649	-11119	36	1		0.00	22	0.00	0.00	0.00	0.00	

**Elenco tipi elementi bidimensionali**

**Simbologia**

- Tb = Numero del tipo muro/elemento bidimensionale  
 Comm. = Commento  
 Tipo = Tipologia  
     F = Membranale e Flessionale  
     M = Membranale  
     W-RC = Winkler resistente solo a compressione  
     W-RTC = Winkler resistente a trazione e a compressione  
 Uso = Utilizzo  
     G = Generico  
     P = Parete  
     S = Soletta/Platea  
     N = Nucleo  
     M = Muratura ordinaria  
     L = Pilastro  
     MA = Muratura armata  
     X = Pannello X-LAM  
 Spess. = Spessore  
 Kt = Coeff. di sottofondo su suolo elastico alla Winkler  
 DP = Drucker-Prager  
 Ang. att. = Angolo di attrito  
 Coes. = Coesione  
 Zcv = Quota di riferimento del piano di campagna  
 Crit. = Numero del criterio di progetto  
 Mat. = Numero del materiale

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cm>	DP	Ang. att. <grad>	Coes. <daN/mq>	Zcv <m>	Crit.	Mat.
24	Lamiera acciaio sp. 5 mm	F	G	0.50		N	0.00	0.00	4.20	3	18
25	Lamiera acciaio sp. 6 mm	F	G	0.60		N	0.00	0.00	4.20	3	18
26	Parete tubo campata centrale - sp. 8 mm	F	G	0.80		N	0.00	0.00	4.20	1	18
28	Lamiera sp. 4.0 mm + Leca cls1600 sp. 50 mm (t = 0)	F	G	0.81		N	0.00	0.00	4.20	3	18
34	Lamiera ali a sbalzo sp. 4 mm	F	G	0.40		N	0.00	0.00	4.20	3	18
35	Lamiera nervature interne sp. 4 mm	F	G	0.40		N	0.00	0.00	4.20	3	18
36	Parete tubo acciaio sp. 8 mm + Leca cls1600 sp.50 mm (t=0)	F	G	1.21		N	0.00	0.00	4.20	1	18

**Elenco elementi bidimensionali**

**Simbologia**

- Bid. = Numero del muro/elemento bidimensionale
- Tb = Numero del tipo muro/elemento bidimensionale
- FF = Filo fisso
- Dy1 = Scost. filo fisso Y1
- Dy2 = Scost. filo fisso Y2
- Kt = Coeff. di sottofondo su suolo elastico alla Winkler
- NN = Nodi

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cm>	NN			
2730	26	11	0.00	0.00		-3682	-3683	-3703	-3702
2730	26	11	0.00	0.00		-3713	-3714	-3735	-3734
2730	26	11	0.00	0.00		-3721	-3715	-3737	-3736
2730	26	11	0.00	0.00		-3750	-3751	-3771	-3770
2730	26	11	0.00	0.00		-3752	-3753	-3773	-3772
2730	26	11	0.00	0.00		-3784	-3785	-3796	-3795
2730	26	11	0.00	0.00		-3786	-3787	-3798	-3797
2730	26	11	0.00	0.00		-4172	-4173	-4188	-4187
2730	26	11	0.00	0.00		-3815	-3816	-3830	-3829
2730	26	11	0.00	0.00		-3844	-3845	-3861	-3860
2730	26	11	0.00	0.00		-4137	-4138	-4154	-4153
2730	26	11	0.00	0.00		-4152	-4153	-4172	-4171
2730	26	11	0.00	0.00		-4153	-4154	-4173	-4172
2730	26	11	0.00	0.00		-4107	-4108	-4128	-4127
2730	26	11	0.00	0.00		-4126	-4127	-4137	-4136
2730	26	11	0.00	0.00		-4127	-4128	-4138	-4137
2730	26	11	0.00	0.00		-4080	-4081	-4096	-4095
2730	26	11	0.00	0.00		-4094	-4095	-4107	-4106
2730	26	11	0.00	0.00		-4095	-4096	-4108	-4107
2730	26	11	0.00	0.00		-4056	-4057	-4071	-4070
2730	26	11	0.00	0.00		-4069	-4070	-4080	-4079
2730	26	11	0.00	0.00		-4070	-4071	-4081	-4080
2730	26	11	0.00	0.00		-4022	-4023	-4042	-4041
2730	26	11	0.00	0.00		-4040	-4041	-4056	-4055
2730	26	11	0.00	0.00		-4041	-4042	-4057	-4056
2730	26	11	0.00	0.00		-3990	-3991	-4006	-4005
2730	26	11	0.00	0.00		-4004	-4005	-4022	-4021
2730	26	11	0.00	0.00		-4005	-4006	-4023	-4022
2730	26	11	0.00	0.00		-3951	-3952	-3972	-3971
2730	26	11	0.00	0.00		-3970	-3971	-3990	-3989
2730	26	11	0.00	0.00		-3971	-3972	-3991	-3990
2730	26	11	0.00	0.00		-3924	-3925	-3935	-3934
2730	26	11	0.00	0.00		-3933	-3934	-3951	-3950
2730	26	11	0.00	0.00		-3934	-3935	-3952	-3951
2730	26	11	0.00	0.00		-3890	-3891	-3913	-3912
2730	26	11	0.00	0.00		-3911	-3912	-3924	-3923
2730	26	11	0.00	0.00		-3912	-3913	-3925	-3924
2730	26	11	0.00	0.00		-3845	-3846	-3862	-3861
2730	26	11	0.00	0.00		-3860	-3861	-3890	-3889
2730	26	11	0.00	0.00		-3861	-3862	-3891	-3890
2730	26	11	0.00	0.00		-3814	-3815	-3829	-3828
2730	26	11	0.00	0.00		-3827	-3828	-3845	-3844
2730	26	11	0.00	0.00		-3828	-3829	-3846	-3845
2730	26	11	0.00	0.00		-3785	-3786	-3797	-3796
2730	26	11	0.00	0.00		-3795	-3796	-3814	-3813
2730	26	11	0.00	0.00		-3796	-3797	-3815	-3814
2730	26	11	0.00	0.00		-3751	-3752	-3772	-3771
2730	26	11	0.00	0.00		-3770	-3771	-3785	-3784
2730	26	11	0.00	0.00		-3771	-3772	-3786	-3785
2730	26	11	0.00	0.00		-3714	-3721	-3736	-3735
2730	26	11	0.00	0.00		-3479	-3480	-3496	-3495
2730	26	11	0.00	0.00		-3735	-3736	-3752	-3751
2730	26	11	0.00	0.00		-3681	-3682	-3702	-3701
2730	26	11	0.00	0.00		-3700	-3701	-3714	-3713
2730	26	11	0.00	0.00		-3701	-3702	-3721	-3720
2730	26	11	0.00	0.00		-3641	-3642	-3667	-3666
2730	26	11	0.00	0.00		-3660	-3666	-3681	-3680
2730	26	11	0.00	0.00		-3666	-3667	-3682	-3681
2730	26	11	0.00	0.00		-3613	-3614	-3624	-3623



2730	26	11	0.00	0.00		-3622	-3623	-3641	-3640
2730	26	11	0.00	0.00		-3623	-3624	-3642	-3641
2730	26	11	0.00	0.00		-3574	-3575	-3594	-3593
2730	26	11	0.00	0.00		-3592	-3593	-3613	-3612
2730	26	11	0.00	0.00		-3481	-3482	-3498	-3497
2730	26	11	0.00	0.00		-3507	-3508	-3527	-3526
2730	26	11	0.00	0.00		-3509	-3510	-3529	-3528
2730	26	11	0.00	0.00		-3538	-3539	-3560	-3552
2730	26	11	0.00	0.00		-3551	-3540	-3561	-3553
2730	26	11	0.00	0.00		-3573	-3574	-3593	-3592
2730	26	11	0.00	0.00		-3575	-3576	-3595	-3594
2730	26	11	0.00	0.00		-3612	-3613	-3623	-3622
2730	26	11	0.00	0.00		-3614	-3615	-3625	-3624
2730	26	11	0.00	0.00		-3640	-3641	-3666	-3660
2730	26	11	0.00	0.00		-3642	-3643	-3661	-3667
2730	26	11	0.00	0.00		-3680	-3681	-3701	-3700
2730	26	11	0.00	0.00		-3830	-3831	-3848	-3847
2730	26	11	0.00	0.00		-3787	-3788	-3799	-3798
2730	26	11	0.00	0.00		-3797	-3798	-3816	-3815
2730	26	11	0.00	0.00		-3798	-3799	-3817	-3816
2730	26	11	0.00	0.00		-3753	-3754	-3774	-3773
2730	26	11	0.00	0.00		-3772	-3773	-3787	-3786
2730	26	11	0.00	0.00		-3773	-3774	-3788	-3787
2730	26	11	0.00	0.00		-3813	-3814	-3828	-3827
2730	26	11	0.00	0.00		-3736	-3737	-3753	-3752
2730	26	11	0.00	0.00		-3737	-3738	-3754	-3753
2730	26	11	0.00	0.00		-3846	-3847	-3863	-3862
2730	26	11	0.00	0.00		-3889	-3890	-3912	-3911
2730	26	11	0.00	0.00		-3891	-3892	-3914	-3913
2730	26	11	0.00	0.00		-3923	-3924	-3934	-3933
2730	26	11	0.00	0.00		-3925	-3926	-3936	-3935
2730	26	11	0.00	0.00		-3965	-3951	-3971	-3970
2730	26	11	0.00	0.00		-3952	-3959	-3973	-3972
2730	26	11	0.00	0.00		-3989	-3990	-4005	-4004
2730	26	11	0.00	0.00		-3991	-3992	-4007	-4006
2730	26	11	0.00	0.00		-4021	-4022	-4041	-4040
2730	26	11	0.00	0.00		-4023	-4024	-4043	-4042
2730	26	11	0.00	0.00		-4055	-4056	-4070	-4069
2730	26	11	0.00	0.00		-4057	-4058	-4072	-4071
2730	26	11	0.00	0.00		-4079	-4080	-4095	-4094
2730	26	11	0.00	0.00		-4081	-4082	-4097	-4096
2730	26	11	0.00	0.00		-4106	-4107	-4127	-4126
2730	26	11	0.00	0.00		-4108	-4109	-4129	-4128
2730	26	11	0.00	0.00		-4136	-4137	-4153	-4152
2730	26	11	0.00	0.00		-4138	-4139	-4155	-4154
2730	26	11	0.00	0.00		-4171	-4172	-4187	-4186
2730	26	11	0.00	0.00		-4173	-4174	-4189	-4188
2730	26	11	0.00	0.00		-3508	-3509	-3528	-3527
2730	26	11	0.00	0.00		-3526	-3527	-3539	-3538
2730	26	11	0.00	0.00		-3527	-3528	-3551	-3539
2730	26	11	0.00	0.00		-3480	-3481	-3497	-3496
2730	26	11	0.00	0.00		-3495	-3496	-3508	-3507
2730	26	11	0.00	0.00		-3496	-3497	-3509	-3508
2730	26	11	0.00	0.00		-3829	-3830	-3847	-3846
2730	26	11	0.00	0.00		-3816	-3817	-3831	-3830
2730	26	11	0.00	0.00		-4043	-4044	-4059	-4058
2730	26	11	0.00	0.00		-4174	-4175	-4190	-4189
2730	26	11	0.00	0.00		-4006	-4007	-4024	-4023
2730	26	11	0.00	0.00		-4007	-4008	-4025	-4024
2730	26	11	0.00	0.00		-4139	-4140	-4156	-4155
2730	26	11	0.00	0.00		-4154	-4155	-4174	-4173
2730	26	11	0.00	0.00		-4155	-4156	-4175	-4174
2730	26	11	0.00	0.00		-4109	-4110	-4130	-4129
2730	26	11	0.00	0.00		-4128	-4129	-4139	-4138
2730	26	11	0.00	0.00		-4129	-4130	-4140	-4139
2730	26	11	0.00	0.00		-4082	-4083	-4098	-4097
2730	26	11	0.00	0.00		-4096	-4097	-4109	-4108
2730	26	11	0.00	0.00		-4097	-4098	-4110	-4109
2730	26	11	0.00	0.00		-4058	-4059	-4073	-4072
2730	26	11	0.00	0.00		-4071	-4072	-4082	-4081
2730	26	11	0.00	0.00		-4072	-4073	-4083	-4082
2730	26	11	0.00	0.00		-4024	-4025	-4044	-4043
2730	26	11	0.00	0.00		-4042	-4043	-4058	-4057
2730	26	11	0.00	0.00		-3625	-3626	-3644	-3643
2730	26	11	0.00	0.00		-3992	-3993	-4008	-4007
2730	26	11	0.00	0.00		-3594	-3595	-3615	-3614
2730	26	11	0.00	0.00		-3595	-3596	-3616	-3615
2730	26	11	0.00	0.00		-3959	-3960	-3974	-3973
2730	26	11	0.00	0.00		-3972	-3973	-3992	-3991

2730	26	11	0.00	0.00		-3973	-3974	-3993	-3992
2730	26	11	0.00	0.00		-3593	-3594	-3614	-3613
2730	26	11	0.00	0.00		-3539	-3551	-3553	-3560
2730	26	11	0.00	0.00		-3552	-3560	-3574	-3573
2730	26	11	0.00	0.00		-3560	-3553	-3575	-3574
2730	26	11	0.00	0.00		-3498	-3499	-3511	-3510
2730	26	11	0.00	0.00		-3892	-3893	-3915	-3914
2730	26	11	0.00	0.00		-3913	-3914	-3926	-3925
2730	26	11	0.00	0.00		-3914	-3915	-3927	-3926
2730	26	11	0.00	0.00		-3847	-3848	-3864	-3863
2730	26	11	0.00	0.00		-3862	-3863	-3892	-3891
2730	26	11	0.00	0.00		-3863	-3864	-3893	-3892
2730	26	11	0.00	0.00		-3529	-3530	-3541	-3540
2730	26	11	0.00	0.00		-3576	-3577	-3596	-3595
2730	26	11	0.00	0.00		-3702	-3703	-3715	-3721
2730	26	11	0.00	0.00		-3703	-3704	-3716	-3715
2730	26	11	0.00	0.00		-3540	-3541	-3554	-3561
2730	26	11	0.00	0.00		-3553	-3561	-3576	-3575
2730	26	11	0.00	0.00		-3561	-3554	-3577	-3576
2730	26	11	0.00	0.00		-3715	-3716	-3738	-3737
2730	26	11	0.00	0.00		-3528	-3529	-3540	-3551
2730	26	11	0.00	0.00		-3643	-3644	-3668	-3661
2730	26	11	0.00	0.00		-3683	-3684	-3704	-3703
2730	26	11	0.00	0.00		-3497	-3498	-3510	-3509
2730	26	11	0.00	0.00		-3936	-3937	-3960	-3959
2730	26	11	0.00	0.00		-3624	-3625	-3643	-3642
2730	26	11	0.00	0.00		-3667	-3661	-3683	-3682
2730	26	11	0.00	0.00		-3661	-3668	-3684	-3683
2730	26	11	0.00	0.00		-3615	-3616	-3626	-3625
2730	26	11	0.00	0.00		-3935	-3936	-3959	-3952
2730	26	11	0.00	0.00		-3734	-3735	-3751	-3750
2730	26	11	0.00	0.00		-3482	-3483	-3499	-3498
2730	26	11	0.00	0.00		-3926	-3927	-3937	-3936
2730	26	11	0.00	0.00		-3510	-3511	-3530	-3529
2732	25	22	0.00	0.00		-3247	-3179	-3485	-3505
2732	25	22	0.00	0.00		-2921	-2920	-3296	-3297
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2732	25	22	0.00	0.00		-3434	-3490	-5079	-4937
2732	25	22	0.00	0.00		-2919	-2918	-3294	-3295
2732	25	22	0.00	0.00		-3180	-3219	-3650	-3491
2732	25	22	0.00	0.00		-2922	-2921	-3297	-3266
2732	25	22	0.00	0.00		-2915	-2914	-3179	-3247
2732	25	22	0.00	0.00		-3248	-3266	-3434	-3506
2732	25	22	0.00	0.00		-3297	-3296	-3489	-3490
2732	25	22	0.00	0.00		-3296	-3295	-3488	-3489
2732	25	22	0.00	0.00		-2918	-2917	-3293	-3294
2732	25	22	0.00	0.00		-3486	-3433	-4921	-5078
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2732	25	22	0.00	0.00		-3265	-3247	-3505	-3433
2732	25	22	0.00	0.00		-3266	-3297	-3490	-3434
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2732	25	22	0.00	0.00		-2925	-2924	-3219	-3180
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2732	25	22	0.00	0.00		-3485	-3352	-3690	-4162
2732	25	22	0.00	0.00		-3295	-3294	-3487	-3488
2732	25	22	0.00	0.00		-3490	-3489	-5164	-5079
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2739	25	22	0.00	0.00		-3289	-3290	-3481	-3480
2739	25	22	0.00	0.00		-2941	-2942	-3246	-3264
2739	25	22	0.00	0.00		-2940	-2941	-3264	-3292
2739	25	22	0.00	0.00		-2933	-2934	-3245	-3177
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2739	25	22	0.00	0.00		-2932	-2933	-3177	-3124
2739	25	22	0.00	0.00		-3288	-3289	-3480	-3479
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2739	25	22	0.00	0.00		-3350	-3478	-4150	-3678
2739	25	22	0.00	0.00		-3478	-3386	-4782	-4150
2739	25	22	0.00	0.00		-2938	-2939	-3291	-3290
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2739	25	22	0.00	0.00		-2942	-2943	-3178	-3246
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2818	26	11	0.00	0.00		-5511	-3499	-3511	-5450
2818	26	11	0.00	0.00		-5514	-3704	-3716	-5478
2818	26	11	0.00	0.00		-5478	-3716	-3738	-5480
2818	26	11	0.00	0.00		-5054	-3483	-3499	-5511
2818	26	11	0.00	0.00		-5423	-3530	-3541	-5388
2818	26	11	0.00	0.00		-5452	-3616	-3626	-5512
2818	26	11	0.00	0.00		-5425	-3596	-3616	-5452
2818	26	11	0.00	0.00		-5450	-3511	-3530	-5423
2818	26	11	0.00	0.00		-5480	-3738	-3754	-5482
2818	26	11	0.00	0.00		-5400	-3554	-3577	-5390
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2818	26	11	0.00	0.00		-5390	-3577	-3596	-5425
2818	26	11	0.00	0.00		-5608	-3668	-3684	-5531
2818	26	11	0.00	0.00		-5562	-3644	-3668	-5608
2818	26	11	0.00	0.00		-5512	-3626	-3644	-5562
2818	26	11	0.00	0.00		-5531	-3684	-3704	-5514
2819	26	11	0.00	0.00		-5487	-3743	-3725	-5489
2819	26	11	0.00	0.00		-5616	-3672	-3649	-5559
2819	26	11	0.00	0.00		-5419	-3566	-3546	-5403
2819	26	11	0.00	0.00		-5403	-3546	-3535	-5429
2819	26	11	0.00	0.00		-5523	-3689	-3672	-5616
2819	26	11	0.00	0.00		-5457	-3516	-3504	-5541
2819	26	11	0.00	0.00		-5541	-3504	-3490	-5079
2819	26	11	0.00	0.00		-5392	-3582	-3566	-5419
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2819	26	11	0.00	0.00		-5489	-3725	-3709	-5520
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2833	26	11	0.00	0.00		-4354	-4355	-4367	-4366
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2833	26	11	0.00	0.00		-4226	-4227	-4240	-4239
2833	26	11	0.00	0.00		-4380	-4381	-4392	-4391
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2833	26	11	0.00	0.00		-4228	-4229	-4242	-4241
2833	26	11	0.00	0.00		-4255	-4256	-4269	-4268
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2833	26	11	0.00	0.00		-4187	-4188	-4204	-4203
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2833	26	11	0.00	0.00		-4271	-4272	-4287	-4286

2833	26	11	0.00	0.00		-4268	-4269	-4284	-4283
2833	26	11	0.00	0.00		-4297	-4298	-4313	-4312
2833	26	11	0.00	0.00		-4324	-4325	-4335	-4334
2833	26	11	0.00	0.00		-4299	-4300	-4315	-4314
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2833	26	11	0.00	0.00		-4394	-4395	-4409	-4408
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2833	26	11	0.00	0.00		-4202	-4203	-4226	-4225
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2836	26	11	0.00	0.00		-5401	-3573	-3592	-5424
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2836	26	11	0.00	0.00		-5530	-3680	-3700	-5513
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2836	26	11	0.00	0.00		-5424	-3592	-3612	-5451
2836	26	11	0.00	0.00		-5389	-3552	-3573	-5401
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2836	26	11	0.00	0.00		-5510	-3495	-3507	-5449
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2836	26	11	0.00	0.00		-5607	-3660	-3680	-5530
2837	26	11	0.00	0.00		-5426	-3597	-3578	-5391
2837	26	11	0.00	0.00		-5535	-3685	-3669	-5615
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2837	26	11	0.00	0.00		-5393	-3562	-3542	-5402
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2838	25	22	0.00	0.00		-3488	-3487	-5153	-5237
2838	25	22	0.00	0.00		-3489	-3488	-5237	-5164
2839	25	22	0.00	0.00		-3691	-4163	-5028	-4197
2840	25	22	0.00	0.00		-4162	-3690	-4196	-5027

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2845	25	22	0.00	0.00		-4151	-3679	-4185	-5016
2846	25	22	0.00	0.00		-3480	-3481	-5231	-5145
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2858	26	11	0.00	0.00		-4112	-4113	-4101	-4100
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2858	26	11	0.00	0.00		-4160	-4161	-4145	-4144
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2858	26	11	0.00	0.00		-3834	-3835	-3821	-3820
2858	26	11	0.00	0.00		-3852	-3853	-3836	-3835
2858	26	11	0.00	0.00		-4010	-4011	-3996	-3995
2858	26	11	0.00	0.00		-4048	-4049	-4030	-4029
2858	26	11	0.00	0.00		-3618	-3619	-3599	-3598
2858	26	11	0.00	0.00		-3597	-3598	-3579	-3578
2858	26	11	0.00	0.00		-4077	-4078	-4064	-4063
2858	26	11	0.00	0.00		-3646	-3647	-3629	-3628
2858	26	11	0.00	0.00		-3627	-3628	-3618	-3617
2858	26	11	0.00	0.00		-4102	-4103	-4088	-4087
2858	26	11	0.00	0.00		-3686	-3687	-3677	-3670
2858	26	11	0.00	0.00		-4099	-4100	-4085	-4084
2858	26	11	0.00	0.00		-3792	-3793	-3779	-3778
2858	26	11	0.00	0.00		-3500	-3501	-3487	-3486
2858	26	11	0.00	0.00		-3705	-3706	-3686	-3685
2858	26	11	0.00	0.00		-4159	-4160	-4144	-4143
2858	26	11	0.00	0.00		-3790	-3791	-3777	-3776
2858	26	11	0.00	0.00		-3802	-3803	-3792	-3791
2858	26	11	0.00	0.00		-3739	-3740	-3722	-3717
2858	26	11	0.00	0.00		-3740	-3741	-3723	-3722
2858	26	11	0.00	0.00		-4158	-4159	-4143	-4142
2858	26	11	0.00	0.00		-4086	-4087	-4077	-4076
2858	26	11	0.00	0.00		-4060	-4061	-4046	-4045
2858	26	11	0.00	0.00		-3819	-3820	-3802	-3801
2858	26	11	0.00	0.00		-4062	-4063	-4048	-4047
2858	26	11	0.00	0.00		-4028	-4029	-4012	-4011
2858	26	11	0.00	0.00		-3850	-3851	-3834	-3833
2858	26	11	0.00	0.00		-3919	-3920	-3898	-3897
2858	26	11	0.00	0.00		-3918	-3919	-3897	-3896
2858	26	11	0.00	0.00		-3669	-3670	-3646	-3645
2858	26	11	0.00	0.00		-4133	-4134	-4114	-4113
2858	26	11	0.00	0.00		-3866	-3867	-3851	-3850
2858	26	11	0.00	0.00		-3513	-3514	-3502	-3501
2858	26	11	0.00	0.00		-3977	-3978	-3961	-3967
2858	26	11	0.00	0.00		-3777	-3778	-3758	-3757
2858	26	11	0.00	0.00		-3543	-3544	-3533	-3532
2858	26	11	0.00	0.00		-3532	-3533	-3514	-3513
2858	26	11	0.00	0.00		-4012	-4013	-3998	-3997
2858	26	11	0.00	0.00		-3579	-3580	-3564	-3563
2858	26	11	0.00	0.00		-3562	-3563	-3543	-3542
2858	26	11	0.00	0.00		-4009	-4010	-3995	-3994
2858	26	11	0.00	0.00		-3630	-3631	-3621	-3620
2858	26	11	0.00	0.00		-3755	-3756	-3740	-3739

2858	26	11	0.00	0.00		-4087	-4088	-4078	-4077
2858	26	11	0.00	0.00		-3677	-3671	-3648	-3647
2858	26	11	0.00	0.00		-3671	-3672	-3649	-3648
2858	26	11	0.00	0.00		-3724	-3725	-3709	-3708
2858	26	11	0.00	0.00		-3707	-3708	-3688	-3687
2858	26	11	0.00	0.00		-3708	-3709	-3689	-3688
2858	26	11	0.00	0.00		-3647	-3648	-3630	-3629
2858	26	11	0.00	0.00		-3940	-3941	-3931	-3930
2858	26	11	0.00	0.00		-3578	-3579	-3563	-3562
2858	26	11	0.00	0.00		-3619	-3620	-3600	-3599
2858	26	11	0.00	0.00		-3978	-3979	-3968	-3961
2858	26	11	0.00	0.00		-3778	-3779	-3759	-3758
2858	26	11	0.00	0.00		-4176	-4177	-4158	-4157
2858	26	11	0.00	0.00		-3512	-3513	-3501	-3500
2858	26	11	0.00	0.00		-4143	-4144	-4134	-4133
2858	26	11	0.00	0.00		-3803	-3804	-3793	-3792
2858	26	11	0.00	0.00		-3835	-3836	-3822	-3821
2858	26	11	0.00	0.00		-4084	-4085	-4075	-4074
2858	26	11	0.00	0.00		-4192	-4193	-4178	-4177
2858	26	11	0.00	0.00		-4026	-4027	-4010	-4009
2858	26	11	0.00	0.00		-3800	-3801	-3790	-3789
2858	26	11	0.00	0.00		-3994	-3995	-3976	-3975
2858	26	11	0.00	0.00		-3867	-3868	-3852	-3851
2858	26	11	0.00	0.00		-3832	-3833	-3819	-3818
2858	26	11	0.00	0.00		-3687	-3688	-3671	-3677
2858	26	11	0.00	0.00		-4144	-4145	-4135	-4134
2858	26	11	0.00	0.00		-3941	-3942	-3932	-3931
2858	26	11	0.00	0.00		-3997	-3998	-3979	-3978
2858	26	11	0.00	0.00		-4179	-4180	-4161	-4160
2858	26	11	0.00	0.00		-3917	-3918	-3896	-3895
2858	26	11	0.00	0.00		-3531	-3532	-3513	-3512
2858	26	11	0.00	0.00		-4029	-4030	-4013	-4012
2858	26	11	0.00	0.00		-4011	-4012	-3997	-3996
2858	26	11	0.00	0.00		-3995	-3996	-3977	-3976
2858	26	11	0.00	0.00		-4063	-4064	-4049	-4048
2858	26	11	0.00	0.00		-4047	-4048	-4029	-4028
2858	26	11	0.00	0.00		-3563	-3564	-3544	-3543
2858	26	11	0.00	0.00		-3629	-3630	-3620	-3619
2858	26	11	0.00	0.00		-4076	-4077	-4063	-4062
2858	26	11	0.00	0.00		-3598	-3599	-3580	-3579
2858	26	11	0.00	0.00		-4114	-4115	-4103	-4102
2858	26	11	0.00	0.00		-4101	-4102	-4087	-4086
2858	26	11	0.00	0.00		-3931	-3932	-3920	-3919
2858	26	11	0.00	0.00		-3515	-3516	-3504	-3503
2858	26	11	0.00	0.00		-3953	-3966	-3939	-3938
2858	26	11	0.00	0.00		-3967	-3961	-3941	-3940
2858	26	11	0.00	0.00		-3928	-3929	-3917	-3916
2858	26	11	0.00	0.00		-3545	-3546	-3535	-3534
2858	26	11	0.00	0.00		-3580	-3581	-3565	-3564
2858	26	11	0.00	0.00		-3542	-3543	-3532	-3531
2858	26	11	0.00	0.00		-4194	-4195	-4180	-4179
2858	26	11	0.00	0.00		-4193	-4194	-4179	-4178
2858	26	11	0.00	0.00		-4157	-4158	-4142	-4141
2858	26	11	0.00	0.00		-3776	-3777	-3757	-3756
2858	26	11	0.00	0.00		-3976	-3977	-3967	-3966
2858	26	11	0.00	0.00		-3775	-3776	-3756	-3755
2858	26	11	0.00	0.00		-4191	-4192	-4177	-4176
2858	26	11	0.00	0.00		-3868	-3869	-3853	-3852
2858	26	11	0.00	0.00		-3801	-3802	-3791	-3790
2858	26	11	0.00	0.00		-3723	-3724	-3708	-3707
2858	26	11	0.00	0.00		-3599	-3600	-3581	-3580
2858	26	11	0.00	0.00		-3939	-3940	-3930	-3929
2858	26	11	0.00	0.00		-3975	-3976	-3966	-3965
2858	26	11	0.00	0.00		-3514	-3515	-3503	-3502
2858	26	11	0.00	0.00		-3961	-3968	-3942	-3941
2858	26	11	0.00	0.00		-3742	-3743	-3725	-3724
2858	26	11	0.00	0.00		-3929	-3930	-3918	-3917
2858	26	11	0.00	0.00		-3894	-3895	-3866	-3865
2858	26	11	0.00	0.00		-3620	-3621	-3601	-3600
2858	26	11	0.00	0.00		-3581	-3582	-3566	-3565
2858	26	11	0.00	0.00		-3938	-3939	-3929	-3928
2858	26	11	0.00	0.00		-4141	-4142	-4132	-4131
2858	26	11	0.00	0.00		-3851	-3852	-3835	-3834
2858	26	11	0.00	0.00		-4027	-4028	-4011	-4010
2858	26	11	0.00	0.00		-3648	-3649	-3631	-3630
2858	26	11	0.00	0.00		-3791	-3792	-3778	-3777
2858	26	11	0.00	0.00		-3717	-3722	-3706	-3705
2858	26	11	0.00	0.00		-3897	-3898	-3869	-3868
2858	26	11	0.00	0.00		-3818	-3819	-3801	-3800

2858	26	11	0.00	0.00		-3930	-3931	-3919	-3918
2858	26	11	0.00	0.00		-3966	-3967	-3940	-3939
2858	26	11	0.00	0.00		-3533	-3534	-3515	-3514
2858	26	11	0.00	0.00		-3820	-3821	-3803	-3802
2858	26	11	0.00	0.00		-3865	-3866	-3850	-3849
2858	26	11	0.00	0.00		-3502	-3503	-3489	-3488
2858	26	11	0.00	0.00		-3503	-3504	-3490	-3489
2858	26	11	0.00	0.00		-3600	-3601	-3582	-3581
2858	26	11	0.00	0.00		-4178	-4179	-4160	-4159
2858	26	11	0.00	0.00		-3789	-3790	-3776	-3775
2858	26	11	0.00	0.00		-3916	-3917	-3895	-3894
2858	26	11	0.00	0.00		-3849	-3850	-3833	-3832
2858	26	11	0.00	0.00		-3896	-3897	-3868	-3867
2858	26	11	0.00	0.00		-3565	-3566	-3546	-3545
2858	26	11	0.00	0.00		-4113	-4114	-4102	-4101
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2858	26	11	0.00	0.00		-3534	-3535	-3516	-3515
2858	26	11	0.00	0.00		-3895	-3896	-3867	-3866
2929	26	11	0.00	0.00		-5610	-3799	-3817	-5786
2929	26	11	0.00	0.00		-5629	-3915	-3927	-5631
2929	26	11	0.00	0.00		-5694	-3848	-3864	-5675
2929	26	11	0.00	0.00		-5675	-3864	-3893	-5627
2929	26	11	0.00	0.00		-5516	-3774	-3788	-5533
2929	26	11	0.00	0.00		-5786	-3817	-3831	-5751
2929	26	11	0.00	0.00		-5627	-3893	-3915	-5629
2929	26	11	0.00	0.00		-5482	-3754	-3774	-5516
2929	26	11	0.00	0.00		-5631	-3927	-3937	-5684
2929	26	11	0.00	0.00		-5533	-3788	-3799	-5610
2929	26	11	0.00	0.00		-5696	-3960	-3974	-5753
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2929	26	11	0.00	0.00		-5753	-3974	-3993	-5949
2930	26	11	0.00	0.00		-5614	-3804	-3793	-5522
2930	26	11	0.00	0.00		-5967	-3998	-3979	-5755
2930	26	11	0.00	0.00		-5788	-3822	-3804	-5614
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2946	26	11	0.00	0.00		-4433	-4434	-4448	-4447
2946	26	11	0.00	0.00		-4713	-4714	-4733	-4723
2946	26	11	0.00	0.00		-4424	-4425	-4435	-4434
2946	26	11	0.00	0.00		-4508	-4509	-4702	-4701
2946	26	11	0.00	0.00		-4702	-4703	-4715	-4714
2946	26	11	0.00	0.00		-4467	-4473	-4485	-4484
2946	26	11	0.00	0.00		-4819	-4820	-4832	-4831
2946	26	11	0.00	0.00		-4465	-4466	-4483	-4482
2946	26	11	0.00	0.00		-4817	-4818	-4830	-4829
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2946	26	11	0.00	0.00		-4511	-4512	-4705	-4704
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2946	26	11	0.00	0.00		-4774	-4775	-4789	-4788
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2946	26	11	0.00	0.00		-4423	-4424	-4434	-4433
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2947	26	11	0.00	0.00		-5787	-3818	-3800	-5613
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2947	26	11	0.00	0.00		-5613	-3800	-3789	-5534
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2947	26	11	0.00	0.00		-5754	-3975	-3953	-5697
2948	26	11	0.00	0.00		-5767	-3813	-3827	-5782
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2948	26	11	0.00	0.00		-5609	-3795	-3813	-5767
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3045	26	11	0.00	0.00		-4905	-4906	-4940	-4939
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3045	26	11	0.00	0.00		-5020	-5021	-5059	-5058
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3045	26	11	0.00	0.00		-4939	-4940	-4956	-4955
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3046	26	11	0.00	0.00		-5935	-4084	-4074	-5937
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3124	26	11	0.00	0.00		-6631	-4821	-4833	-6602
3124	26	11	0.00	0.00		-6565	-4847	-4876	-6567
3124	26	11	0.00	0.00		-6567	-4876	-4898	-6569
3124	26	11	0.00	0.00		-6388	-4384	-4395	-6407
3124	26	11	0.00	0.00		-6804	-4776	-4790	-6680
3124	26	11	0.00	0.00		-6448	-4724	-4764	-6511
3124	26	11	0.00	0.00		-6384	-4356	-4368	-6386
3124	26	11	0.00	0.00		-6604	-4908	-4942	-6633
3124	26	11	0.00	0.00		-6569	-4898	-4908	-6604
3124	26	11	0.00	0.00		-6600	-4437	-4451	-6509
3124	26	11	0.00	0.00		-6442	-4328	-4338	-6422
3124	26	11	0.00	0.00		-6633	-4942	-4958	-6695
3124	26	11	0.00	0.00		-6680	-4790	-4821	-6631
3124	26	11	0.00	0.00		-6427	-4717	-4724	-6448
3124	26	11	0.00	0.00		-6394	-4705	-4717	-6427
3124	26	11	0.00	0.00		-6509	-4451	-4474	-6446
3124	26	11	0.00	0.00		-6542	-4427	-4437	-6600
3124	26	11	0.00	0.00		-6390	-4505	-4512	-6392
3124	26	11	0.00	0.00		-6009	-4272	-4287	-6083
3124	26	11	0.00	0.00		-6422	-4338	-4356	-6384
3124	26	11	0.00	0.00		-5929	-4242	-4259	-5957
3124	26	11	0.00	0.00		-6425	-4486	-4505	-6390
3124	26	11	0.00	0.00		-6407	-4395	-4409	-6444
3124	26	11	0.00	0.00		-6386	-4368	-4384	-6388
3124	26	11	0.00	0.00		-6446	-4474	-4486	-6425

3124	26	11	0.00	0.00		-6392	-4512	-4705	-6394
3124	26	11	0.00	0.00		-6511	-4764	-4776	-6804
3124	26	11	0.00	0.00		-6083	-4287	-4301	-6341
3124	26	11	0.00	0.00		-6341	-4301	-4316	-6507
3125	26	11	0.00	0.00		-6610	-4442	-4432	-6517
3125	26	11	0.00	0.00		-6398	-4517	-4507	-6400
3125	26	11	0.00	0.00		-6406	-4361	-4343	-6435
3125	26	11	0.00	0.00		-6402	-4389	-4373	-6404
3125	26	11	0.00	0.00		-6696	-4963	-4947	-6635
3125	26	11	0.00	0.00		-6450	-4740	-4722	-6429
3125	26	11	0.00	0.00		-6456	-4333	-4321	-6543
3125	26	11	0.00	0.00		-6575	-4852	-4838	-6608
3125	26	11	0.00	0.00		-6396	-4710	-4517	-6398
3125	26	11	0.00	0.00		-6515	-4456	-4442	-6610
3125	26	11	0.00	0.00		-6454	-4414	-4400	-6433
3125	26	11	0.00	0.00		-6543	-4321	-4306	-6343
3125	26	11	0.00	0.00		-6452	-4468	-4456	-6515
3125	26	11	0.00	0.00		-6431	-4491	-4468	-6452
3125	26	11	0.00	0.00		-6806	-4781	-4769	-6513
3125	26	11	0.00	0.00		-6433	-4400	-4389	-6402
3125	26	11	0.00	0.00		-6429	-4722	-4710	-6396
3125	26	11	0.00	0.00		-6635	-4947	-4913	-6606
3125	26	11	0.00	0.00		-6085	-4292	-4277	-6012
3125	26	11	0.00	0.00		-6513	-4769	-4740	-6450
3125	26	11	0.00	0.00		-6517	-4432	-4414	-6454
3125	26	11	0.00	0.00		-6606	-4913	-4901	-6571
3125	26	11	0.00	0.00		-6012	-4277	-4264	-5959
3125	26	11	0.00	0.00		-6435	-4343	-4333	-6456
3125	26	11	0.00	0.00		-6400	-4507	-4491	-6431
3125	26	11	0.00	0.00		-6343	-4306	-4292	-6085
3125	26	11	0.00	0.00		-6404	-4373	-4361	-6406
3125	26	11	0.00	0.00		-6573	-4881	-4852	-6575
3125	26	11	0.00	0.00		-6684	-4795	-4781	-6806
3125	26	11	0.00	0.00		-5959	-4264	-4247	-5925
3125	26	11	0.00	0.00		-6608	-4838	-4826	-6637
3125	26	11	0.00	0.00		-6637	-4826	-4795	-6684
3125	26	11	0.00	0.00		-6571	-4901	-4881	-6573
3126	26	11	0.00	0.00		-6179	-4145	-4135	-6089
3126	26	11	0.00	0.00		-6087	-4161	-4145	-6179
3127	26	11	0.00	0.00		-6177	-4140	-4156	-6081
3127	26	11	0.00	0.00		-6079	-4130	-4140	-6177
3134	35	22	0.00	0.00		-5280	-4784	-5483	
3134	35	22	0.00	0.00		-5737	-5280	-5483	-6207
3134	34	22	0.00	0.00		-5483	-4784	-6560	
3134	24	22	0.00	0.00		-4784	-5737	-6207	
3135	34	22	0.00	0.00		-4784	-5829	-6557	
3136	24	22	0.00	0.00		-5748	-4785	-6208	
3137	34	22	0.00	0.00		-4785	-6540	-5830	
3140	26	11	0.00	0.00		-5134	-5135	-5150	-5156
3140	26	11	0.00	0.00		-5068	-5069	-5102	-5101
3140	26	11	0.00	0.00		-5184	-5185	-5222	-5221
3140	26	11	0.00	0.00		-5189	-5190	-5162	-5158
3140	26	11	0.00	0.00		-5232	-5233	-5225	-5224
3140	26	11	0.00	0.00		-5102	-5103	-5134	-5133
3140	26	11	0.00	0.00		-5183	-5184	-5221	-5220
3140	26	11	0.00	0.00		-5226	-5227	-5190	-5189
3140	26	11	0.00	0.00		-5182	-5183	-5220	-5219
3140	26	11	0.00	0.00		-5055	-5056	-5069	-5068
3140	26	11	0.00	0.00		-5235	-5236	-5228	-5227
3140	26	11	0.00	0.00		-5069	-5070	-5103	-5102
3140	26	11	0.00	0.00		-5234	-5235	-5227	-5226
3140	26	11	0.00	0.00		-5149	-5156	-5184	-5183
3140	26	11	0.00	0.00		-5104	-5105	-5136	-5135
3140	26	11	0.00	0.00		-5187	-5188	-5161	-5157
3140	26	11	0.00	0.00		-5132	-5133	-5149	-5148
3140	26	11	0.00	0.00		-5225	-5226	-5189	-5188
3140	26	11	0.00	0.00		-5070	-5071	-5104	-5103
3140	26	11	0.00	0.00		-5220	-5221	-5234	-5233
3140	26	11	0.00	0.00		-5185	-5186	-5223	-5222
3140	26	11	0.00	0.00		-5156	-5150	-5185	-5184
3140	26	11	0.00	0.00		-5188	-5189	-5158	-5161
3140	26	11	0.00	0.00		-5103	-5104	-5135	-5134
3140	26	11	0.00	0.00		-5058	-5059	-5072	-5071
3140	26	11	0.00	0.00		-5057	-5058	-5071	-5070
3140	26	11	0.00	0.00		-5190	-5191	-5163	-5162
3140	26	11	0.00	0.00		-5135	-5136	-5151	-5150
3140	26	11	0.00	0.00		-5101	-5102	-5133	-5132
3140	26	11	0.00	0.00		-5056	-5057	-5070	-5069
3140	26	11	0.00	0.00		-5227	-5228	-5191	-5190

3140	26	11	0.00	0.00		-5233	-5234	-5226	-5225
3140	26	11	0.00	0.00		-5221	-5222	-5235	-5234
3140	26	11	0.00	0.00		-5148	-5149	-5183	-5182
3140	26	11	0.00	0.00		-5133	-5134	-5156	-5149
3140	26	11	0.00	0.00		-5150	-5151	-5186	-5185
3140	26	11	0.00	0.00		-5219	-5220	-5233	-5232
3140	26	11	0.00	0.00		-5224	-5225	-5188	-5187
3140	26	11	0.00	0.00		-5071	-5072	-5105	-5104
3140	26	11	0.00	0.00		-5222	-5223	-5236	-5235
3141	26	11	0.00	0.00		-6178	-4141	-4131	-6088
3141	26	11	0.00	0.00		-6086	-4157	-4141	-6178
3142	26	11	0.00	0.00		-6008	-4268	-4283	-6082
3142	26	11	0.00	0.00		-6393	-4701	-4713	-6426
3142	26	11	0.00	0.00		-5924	-4238	-4255	-5956
3142	26	11	0.00	0.00		-6632	-4938	-4954	-6681
3142	26	11	0.00	0.00		-6421	-4334	-4352	-6383
3142	26	11	0.00	0.00		-6082	-4283	-4297	-6340
3142	26	11	0.00	0.00		-6389	-4495	-4508	-6391
3142	26	11	0.00	0.00		-6391	-4508	-4701	-6393
3142	26	11	0.00	0.00		-6340	-4297	-4312	-6506
3142	26	11	0.00	0.00		-6423	-4391	-4405	-6443
3142	26	11	0.00	0.00		-6385	-4364	-4380	-6387
3142	26	11	0.00	0.00		-5956	-4255	-4268	-6008
3142	26	11	0.00	0.00		-6568	-4889	-4904	-6603
3142	26	11	0.00	0.00		-6426	-4713	-4723	-6447
3142	26	11	0.00	0.00		-6441	-4324	-4334	-6421
3142	26	11	0.00	0.00		-6443	-4405	-4423	-6541
3142	26	11	0.00	0.00		-6506	-4312	-4324	-6441
3142	26	11	0.00	0.00		-6679	-4786	-4817	-6630
3142	26	11	0.00	0.00		-6566	-4872	-4889	-6568
3142	26	11	0.00	0.00		-6603	-4904	-4938	-6632
3142	26	11	0.00	0.00		-6387	-4380	-4391	-6423
3142	26	11	0.00	0.00		-6630	-4817	-4829	-6601
3142	26	11	0.00	0.00		-6445	-4465	-4482	-6424
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3142	26	11	0.00	0.00		-6601	-4829	-4843	-6564
3142	26	11	0.00	0.00		-6383	-4352	-4364	-6385
3142	26	11	0.00	0.00		-6508	-4447	-4465	-6445
3142	26	11	0.00	0.00		-6424	-4482	-4495	-6389
3142	26	11	0.00	0.00		-6541	-4423	-4433	-6599
3142	26	11	0.00	0.00		-6803	-4772	-4786	-6679
3142	26	11	0.00	0.00		-6447	-4723	-4760	-6510
3142	26	11	0.00	0.00		-6510	-4760	-4772	-6803
3142	26	11	0.00	0.00		-6599	-4433	-4447	-6508
3143	26	11	0.00	0.00		-6572	-4877	-4848	-6574
3143	26	11	0.00	0.00		-6605	-4909	-4899	-6570
3143	26	11	0.00	0.00		-6516	-4428	-4410	-6453
3143	26	11	0.00	0.00		-6636	-4822	-4791	-6683
3143	26	11	0.00	0.00		-6805	-4777	-4765	-6512
3143	26	11	0.00	0.00		-6084	-4288	-4273	-6011
3143	26	11	0.00	0.00		-6011	-4273	-4260	-5958
3143	26	11	0.00	0.00		-6574	-4848	-4834	-6607
3143	26	11	0.00	0.00		-6428	-4718	-4706	-6395
3143	26	11	0.00	0.00		-6449	-4736	-4718	-6428
3143	26	11	0.00	0.00		-6570	-4899	-4877	-6572
3143	26	11	0.00	0.00		-6683	-4791	-4777	-6805
3143	26	11	0.00	0.00		-6405	-4357	-4339	-6434
3143	26	11	0.00	0.00		-6395	-4706	-4513	-6397
3143	26	11	0.00	0.00		-6682	-4959	-4943	-6634
3143	26	11	0.00	0.00		-5958	-4260	-4243	-5930
3143	26	11	0.00	0.00		-6451	-4475	-4452	-6514
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3143	26	11	0.00	0.00		-6342	-4302	-4288	-6084
3143	26	11	0.00	0.00		-6514	-4452	-4438	-6609
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3143	26	11	0.00	0.00		-6397	-4513	-4498	-6399
3143	26	11	0.00	0.00		-6432	-4396	-4385	-6401
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3143	26	11	0.00	0.00		-6518	-4317	-4302	-6342
3143	26	11	0.00	0.00		-6399	-4498	-4487	-6430
3143	26	11	0.00	0.00		-6434	-4339	-4329	-6455
3143	26	11	0.00	0.00		-6455	-4329	-4317	-6518
3143	26	11	0.00	0.00		-6403	-4369	-4357	-6405
3143	26	11	0.00	0.00		-6430	-4487	-4475	-6451
3143	26	11	0.00	0.00		-6401	-4385	-4369	-6403
3144	26	11	0.00	0.00		-6176	-4136	-4152	-6080
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3145	25	22	0.00	0.00		-5028	-5873	-6282	-5565
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3146	25	22	0.00	0.00		-5078	-4921	-6148	-6264
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3154	25	22	0.00	0.00		-5067	-5145	-6261	-6260
3154	25	22	0.00	0.00		-5054	-4783	-5947	-6263
3154	25	22	0.00	0.00		-5231	-5146	-6262	-6254
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3154	25	22	0.00	0.00		-4782	-5067	-6260	-5946
3154	25	22	0.00	0.00		-5146	-5054	-6263	-6262
3155	34	22	0.00	0.00		-6026	-4472	-5785	
3155	35	22	0.00	0.00		-5529	-4472	-6026	-6502
3158	26	11	0.00	0.00		-5024	-5025	-5011	-5010
3158	26	11	0.00	0.00		-5060	-5061	-5023	-5022
3158	26	11	0.00	0.00		-4900	-4901	-4881	-4880
3158	26	11	0.00	0.00		-5008	-5009	-4974	-4983
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3158	26	11	0.00	0.00		-4910	-4911	-4894	-4893
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3158	26	11	0.00	0.00		-4962	-4963	-4947	-4946
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3158	26	11	0.00	0.00		-4959	-4960	-4944	-4943
3158	26	11	0.00	0.00		-5062	-5063	-5025	-5024
3158	26	11	0.00	0.00		-4984	-4985	-4962	-4961
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3158	26	11	0.00	0.00		-4983	-4974	-4960	-4959
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3158	26	11	0.00	0.00		-5011	-5012	-4986	-4985
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3158	26	11	0.00	0.00		-4894	-4900	-4880	-4879
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3225	26	11	0.00	0.00		-6808	-5559	-5539	-6871
3225	26	11	0.00	0.00		-6965	-5523	-5616	-6967
3225	26	11	0.00	0.00		-6883	-5429	-5457	-6885
3225	26	11	0.00	0.00		-6951	-5614	-5522	-6953
3225	26	11	0.00	0.00		-6887	-5541	-5079	-6267
3225	26	11	0.00	0.00		-6957	-5485	-5487	-6959
3225	26	11	0.00	0.00		-6963	-5520	-5523	-6965
3225	26	11	0.00	0.00		-6871	-5539	-5455	-6873
3225	26	11	0.00	0.00		-6967	-5616	-5559	-6808
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3227	26	11	0.00	0.00		-6929	-5608	-5531	-6931
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3227	26	11	0.00	0.00		-6846	-5450	-5423	-6848
3227	26	11	0.00	0.00		-6850	-5388	-5400	-6852
3227	26	11	0.00	0.00		-6937	-5480	-5482	-6939
3227	26	11	0.00	0.00		-6933	-5514	-5478	-6935
3227	26	11	0.00	0.00		-6941	-5516	-5533	-6943
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3249	26	11	0.00	0.00		-6758	-5055	-5068	-6725
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3249	26	11	0.00	0.00		-7044	-4983	-4959	-6682
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3275	26	11	0.00	0.00		-5139	-5140	-5109	-5108
3275	26	11	0.00	0.00		-5109	-5110	-5077	-5076
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3275	26	11	0.00	0.00		-5074	-5075	-5062	-5061
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3275	26	11	0.00	0.00		-5073	-5074	-5061	-5060
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3275	26	11	0.00	0.00		-5158	-5162	-5140	-5139
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3275	26	11	0.00	0.00		-5076	-5077	-5064	-5063
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3280	34	22	0.00	0.00		-4377	-8557	-5832	
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3454	26	11	0.00	0.00		-8795	-8048	-8050	-8797
3454	26	11	0.00	0.00		-7877	-6426	-6447	-7879
3454	26	11	0.00	0.00		-9708	-8577	-8579	-9718
3454	26	11	0.00	0.00		-7913	-6405	-6434	-7915
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3454	26	11	0.00	0.00		-8112	-6805	-6512	-7883
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3492	34	22	0.00	0.00		-8968	-9662	-5810

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3492	35	22	0.00	0.00		-7742	-8111	-9162	-9037
3492	35	22	0.00	0.00		-5810	-6767	-8968	
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3492	34	22	0.00	0.00		-9663	-9108	-9662	
3493	34	22	0.00	0.00		-11040	-8967	-9661	-11635
3493	34	22	0.00	0.00		-8967	-5809	-9661	
3493	34	22	0.00	0.00		-5809	-6902	-9661	
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3493	35	22	0.00	0.00		-6766	-5809	-8967	
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3497	34	22	0.00	0.00		-6033	-7151	-9986	
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3505	35	22	0.00	0.00		-8368	-7994	-9223	-9428
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3519	34	22	0.00	0.00		-7188	-8184	-8861	
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3528	34	22	0.00	0.00		3110	-7320	-9114
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3538	35	22	0.00	0.00		-9668	-7538	-8680
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3540	35	22	0.00	0.00		-11052	-8969	-7744
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3550	34	22	0.00	0.00		-8921	-9319	-10282	-10283
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3566	26	11	0.00	0.00		-13086	-10234	-10181	-12991
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3566	26	11	0.00	0.00		-13367	-10734	-11019	-13300
3566	26	11	0.00	0.00		-12477	-9932	-9996	-12520
3566	26	11	0.00	0.00		-12413	-10084	-10082	-12347
3566	26	11	0.00	0.00		-12179	-9888	-9655	-11568
3566	26	11	0.00	0.00		-12475	-9930	-9932	-12477
3566	26	11	0.00	0.00		-11620	-9868	-9916	-11692
3566	26	11	0.00	0.00		-12722	-10648	-10738	-12651
3566	26	11	0.00	0.00		-11917	-9704	-9758	-12007
3566	26	11	0.00	0.00		-12124	-9875	-10179	-12841
3566	26	11	0.00	0.00		-12895	-10522	-10528	-12963
3566	26	11	0.00	0.00		-14578	-12178	-12039	-14508
3566	26	11	0.00	0.00		-15042	-11950	-11951	-14976
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3566	26	11	0.00	0.00		-12162	-10048	-10050	-12240
3566	26	11	0.00	0.00		-15540	-12464	-12466	-15606
3566	26	11	0.00	0.00		-15243	-12126	-12029	-15176
3566	26	11	0.00	0.00		-15441	-12558	-12632	-15375
3566	26	11	0.00	0.00		-15309	-12843	-12126	-15243
3566	26	11	0.00	0.00		-13472	-10600	-10530	-13542
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3566	26	11	0.00	0.00		-15573	-12477	-12520	-15507
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3566	26	11	0.00	0.00		-15276	-12841	-12626	-15342
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3566	26	11	0.00	0.00		-12843	-10205	-9876	-12126
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3566	26	11	0.00	0.00		-15639	-12475	-12477	-15573
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3566	26	11	0.00	0.00		-12464	-9922	-9924	-12466
3566	26	11	0.00	0.00		-11791	-10096	-9918	-11725
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3566	26	11	0.00	0.00		-15342	-12626	-12545	-15408
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3567	26	11	0.00	0.00		-11447	-9835	-9836	-11377
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3570	34	22	0.00	0.00		-11084	-11039	-10259	
3570	34	22	0.00	0.00		-10259	-11083	-11084	
3570	34	22	0.00	0.00		-11086	-10634	-11085	



3584	28	22	0.00	0.00		-10743	-10813	-10812	-10742
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3584	28	22	0.00	0.00		-13223	-13292	-13291	-13222
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3584	28	22	0.00	0.00		-12775	-12845	-12844	-12774
3584	28	22	0.00	0.00		-14114	-14180	-14179	-14113
3584	28	22	0.00	0.00		-13222	-13291	-13290	-13221
3584	28	22	0.00	0.00		-10748	-10849	-10816	-10747
3584	28	22	0.00	0.00		-14312	-14378	-14377	-14311
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3584	28	22	0.00	0.00		-12406	-12487	-12523	-12405
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3584	28	22	0.00	0.00		-13903	-13973	-13972	-13902
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3584	28	22	0.00	0.00		-10887	-10956	-10955	-10886
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3584	28	22	0.00	0.00		-10960	-11043	-11032	-10959
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3584	28	22	0.00	0.00		-11578	-11646	-11645	-11577
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3584	36	22	0.00	0.00		-11103	-11104	-11033	-11043
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3584	36	22	0.00	0.00		-15174	-15175	-15110	-15109
3584	36	22	0.00	0.00		-15040	-15041	-14975	-14974
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3584	36	22	0.00	0.00		-12409	-12410	-12344	-12343
3584	28	22	0.00	0.00		-16515	-16514	-16580	-16581
3584	36	22	0.00	0.00		-14774	-14775	-14709	-14708
3584	36	22	0.00	0.00		-14906	-14907	-14841	-14840
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3584	36	22	0.00	0.00		-13835	-13836	-13770	-13769
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3584	28	22	0.00	0.00		-16387	-16386	-16452	-16453
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3584	36	22	0.00	0.00		-15038	-15039	-14973	-14972
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3584	28	22	0.00	0.00		-12663	-12662	-12588	-12589
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3584	36	22	0.00	0.00		-16362	-16363	-16297	-16296
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3584	28	22	0.00	0.00		-12262	-12330	-12329	-12261
3584	28	22	0.00	0.00		-10967	-10966	-10890	-10903
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3584	28	22	0.00	0.00		-11641	-11711	-11710	-11640
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3584	28	22	0.00	0.00		-10672	-10671	-10576	-10565
3584	28	22	0.00	0.00		-12716	-12786	-12785	-12715
3584	28	22	0.00	0.00		-12786	-12856	-12855	-12785
3584	28	22	0.00	0.00		-12856	-12934	-12933	-12855
3584	28	22	0.00	0.00		-11362	-11432	-11431	-11361
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3584	28	22	0.00	0.00		-11572	-11640	-11639	-11571
3584	28	22	0.00	0.00		-11519	-11589	-11588	-11518
3584	28	22	0.00	0.00		-11589	-11656	-11655	-11588
3584	28	22	0.00	0.00		-10673	-10672	-10565	-10577
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3584	28	22	0.00	0.00		-11223	-11295	-11294	-11222
3584	36	22	0.00	0.00		-15701	-15702	-15636	-15635
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3584	28	22	0.00	0.00		-11518	-11588	-11587	-11517
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3584	28	22	0.00	0.00		-15310	-15376	-15375	-15309
3584	28	22	0.00	0.00		-12182	-12209	-12208	-12141
3584	28	22	0.00	0.00		-13156	-13223	-13222	-13155

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3584	28	22	0.00	0.00		-12524	-12579	-12578	-12495
3584	28	22	0.00	0.00		-12783	-12853	-12852	-12782
3584	28	22	0.00	0.00		-10408	-10407	-10354	-10355
3584	28	22	0.00	0.00		-11856	-11855	-11793	-11794
3584	28	22	0.00	0.00		-11037	-11047	-10970	-10971
3584	28	22	0.00	0.00		-12497	-12496	-12416	-12417
3584	36	22	0.00	0.00		-16595	-16596	-16563	-16562
3584	28	22	0.00	0.00		-10830	-10829	-10763	-10764
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3584	36	22	0.00	0.00		-16098	-16099	-16033	-16032
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3584	28	22	0.00	0.00		-10852	-10830	-10764	-10765
3584	28	22	0.00	0.00		-12284	-12283	-12211	-12212
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3584	28	22	0.00	0.00		-10329	-10403	-10402	-10352
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3584	28	22	0.00	0.00		-16304	-16303	-16237	-16238
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3584	28	22	0.00	0.00		-16247	-16246	-16180	-16181
3584	28	22	0.00	0.00		-13220	-13289	-13288	-13219
3584	28	22	0.00	0.00		-12565	-12639	-12638	-12564
3584	28	22	0.00	0.00		-16244	-16243	-16177	-16178
3584	28	22	0.00	0.00		-10567	-10550	-10479	-10480
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3584	28	22	0.00	0.00		-16241	-16240	-16174	-16175
3584	28	22	0.00	0.00		-11897	-11857	-11796	-11797
3584	28	22	0.00	0.00		-11055	-11049	-10973	-10974
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3584	28	22	0.00	0.00		-11719	-11785	-11784	-11718
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3584	28	22	0.00	0.00		-11232	-11304	-11303	-11231
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3584	28	22	0.00	0.00		-13075	-13151	-13150	-13124
3584	28	22	0.00	0.00		-13151	-13218	-13217	-13150
3584	28	22	0.00	0.00		-16172	-16171	-16105	-16106
3584	28	22	0.00	0.00		-10768	-10767	-10678	-10691
3584	28	22	0.00	0.00		-10691	-10678	-10630	-10578
3584	28	22	0.00	0.00		-16115	-16114	-16048	-16049
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3584	28	22	0.00	0.00		-16112	-16111	-16045	-16046
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3584	28	22	0.00	0.00		-11295	-11361	-11360	-11294
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3584	28	22	0.00	0.00		-16106	-16105	-16039	-16040
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3584	36	22	0.00	0.00		-15571	-15572	-15506	-15505
3584	28	22	0.00	0.00		-16046	-16045	-15979	-15980
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3584	28	22	0.00	0.00		-16043	-16042	-15976	-15977
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3584	28	22	0.00	0.00		-11059	-11058	-10977	-10978
3584	28	22	0.00	0.00		-10978	-10977	-10917	-10911



3584	28	22	0.00	0.00		-10911	-10917	-10835	-10836
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3584	28	22	0.00	0.00		-10485	-10484	-10414	-10415
3584	28	22	0.00	0.00		-15113	-15178	-15177	-15112
3584	28	22	0.00	0.00		-15369	-15435	-15434	-15368
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3584	28	22	0.00	0.00		-15368	-15434	-15433	-15367
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3584	28	22	0.00	0.00		-15764	-15830	-15829	-15763
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3584	28	22	0.00	0.00		-16169	-16235	-16234	-16168
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3584	28	22	0.00	0.00		-13709	-13775	-13774	-13708
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3584	28	22	0.00	0.00		-15298	-15364	-15363	-15297
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3584	28	22	0.00	0.00		-15628	-15694	-15693	-15627
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3584	28	22	0.00	0.00		-15760	-15826	-15825	-15759
3584	28	22	0.00	0.00		-15641	-15707	-15706	-15640
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3584	28	22	0.00	0.00		-15363	-15429	-15428	-15362
3584	28	22	0.00	0.00		-15906	-15972	-15971	-15905
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3584	28	22	0.00	0.00		-15442	-15508	-15507	-15441
3584	28	22	0.00	0.00		-15508	-15574	-15573	-15507
3584	28	22	0.00	0.00		-15574	-15640	-15639	-15573
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3584	28	22	0.00	0.00		-14311	-14377	-14376	-14310
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3584	28	22	0.00	0.00		-16536	-16535	-16601	-16602
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3584	28	22	0.00	0.00		-12016	-12139	-12181	-12049
3584	36	22	0.00	0.00		-14506	-14507	-14441	-14440
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3584	28	22	0.00	0.00		-14571	-14639	-14638	-14570
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3584	28	22	0.00	0.00		-12335	-12401	-12400	-12334
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3584	28	22	0.00	0.00		-15172	-15239	-15238	-15171
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3584	28	22	0.00	0.00		-14707	-14773	-14772	-14706
3584	28	22	0.00	0.00		-14773	-14839	-14838	-14772
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3584	28	22	0.00	0.00		-15106	-15171	-15170	-15094
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3584	28	22	0.00	0.00		-16164	-16230	-16229	-16163
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3584	28	22	0.00	0.00		-16229	-16295	-16294	-16228
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3584	28	22	0.00	0.00		-15436	-15502	-15501	-15435
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3584	28	22	0.00	0.00		-14174	-14240	-14239	-14173
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3584	28	22	0.00	0.00		-14372	-14438	-14437	-14371
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3584	28	22	0.00	0.00		-12342	-12408	-12407	-12341
3584	28	22	0.00	0.00		-14637	-14703	-14702	-14636
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3584	28	22	0.00	0.00		-10325	-10398	-10397	-10324
3584	28	22	0.00	0.00		-10398	-10467	-10466	-10397
3584	28	22	0.00	0.00		-14901	-14967	-14966	-14900
3584	28	22	0.00	0.00		-10575	-10667	-10666	-10563
3584	28	22	0.00	0.00		-15033	-15104	-15132	-15032
3584	28	22	0.00	0.00		-10753	-10819	-10818	-10752
3584	28	22	0.00	0.00		-16472	-16471	-16537	-16538
3584	28	22	0.00	0.00		-10889	-10960	-10959	-10888
3584	28	22	0.00	0.00		-11453	-11452	-11382	-11383
3584	28	22	0.00	0.00		-11043	-11103	-11102	-11032
3584	28	22	0.00	0.00		-10324	-10397	-10396	3503
3584	28	22	0.00	0.00		-10397	-10466	-10465	-10396
3584	28	22	0.00	0.00		-10466	-10563	-10624	-10465
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3584	28	22	0.00	0.00		-16407	-16406	-16472	-16473
3584	28	22	0.00	0.00		-16473	-16472	-16538	-16539
3584	28	22	0.00	0.00		-16539	-16538	-16604	-16605
3584	28	22	0.00	0.00		-10959	-11032	-11031	-10958
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3584	28	22	0.00	0.00		-14965	-15031	-15030	-14964
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3584	28	22	0.00	0.00		-13163	-13232	-13231	-13172
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3584	28	22	0.00	0.00		-11175	-11241	-11240	-11174
3584	28	22	0.00	0.00		-11241	-11313	-11312	-11240
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3584	28	22	0.00	0.00		-11449	-11519	-11518	-11448
3584	28	22	0.00	0.00		-16410	-16409	-16475	-16476
3584	28	22	0.00	0.00		-16476	-16475	-16541	-16542
3584	28	22	0.00	0.00		-16542	-16541	-16607	-16608
3584	28	22	0.00	0.00		-11727	-11793	-11792	-11726
3584	28	22	0.00	0.00		-11108	-11174	-11173	-11107
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3584	28	22	0.00	0.00		-14962	-15028	-15027	-14961
3584	28	22	0.00	0.00		-15028	-15101	-15100	-15027
3584	28	22	0.00	0.00		-16411	-16410	-16476	-16477

3584	28	22	0.00	0.00		-11588	-11655	-11654	-11587
3584	28	22	0.00	0.00		-11655	-11726	-11725	-11654
3584	28	22	0.00	0.00		-14631	-14697	-14696	-14630
3584	28	22	0.00	0.00		-14697	-14763	-14762	-14696
3584	28	22	0.00	0.00		-14763	-14829	-14828	-14762
3584	28	22	0.00	0.00		-14829	-14895	-14894	-14828
3584	28	22	0.00	0.00		-12058	-12182	-12141	-12051
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3584	28	22	0.00	0.00		-14762	-14828	-14827	-14761
3584	28	22	0.00	0.00		-11932	-12051	-12087	-11991
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3584	28	22	0.00	0.00		-12208	-12280	-12279	-12207
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3584	28	22	0.00	0.00		-16479	-16478	-16544	-16545
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3584	28	22	0.00	0.00		-14629	-14695	-14694	-14628
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3584	28	22	0.00	0.00		-10966	-11054	-11053	-10965
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3584	28	22	0.00	0.00		-11166	-11232	-11231	-11165
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3584	28	22	0.00	0.00		-14569	-14637	-14636	-14568
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3584	28	22	0.00	0.00		-12850	-12928	-12927	-12849
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3584	28	22	0.00	0.00		-14167	-14233	-14232	-14166
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3584	28	22	0.00	0.00		-14029	-14097	-14096	-14028
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3584	28	22	0.00	0.00		-10903	-10890	-10825	-10826
3584	28	22	0.00	0.00		-10826	-10825	-10759	-10760
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3584	28	22	0.00	0.00		-14989	-14988	-14922	-14923
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3584	28	22	0.00	0.00		-10475	-10474	-10405	-10406
3584	28	22	0.00	0.00		-10406	-10405	-10330	-10353
3584	28	22	0.00	0.00		-15515	-15514	-15448	-15449
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3584	28	22	0.00	0.00		-14511	-14510	-14444	-14445
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3584	28	22	0.00	0.00		-15584	-15583	-15517	-15518
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3584	28	22	0.00	0.00		-15653	-15652	-15586	-15587
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3584	28	22	0.00	0.00		-10483	-10482	-10412	-10413
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3584	28	22	0.00	0.00		-13102	-13082	-13033	-13034
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3584	28	22	0.00	0.00		-13098	-13126	-13028	-13029
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3584	28	22	0.00	0.00		-13097	-13096	-13026	-13027
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3584	28	22	0.00	0.00		-11859	-11872	-11800	-11801
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3584	28	22	0.00	0.00		-12424	-12423	-12357	-12358
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3584	28	22	0.00	0.00		-13031	-13030	-12947	-12948
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3584	28	22	0.00	0.00		-10971	-10970	-10906	-10891
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3584	28	22	0.00	0.00		-13629	-13695	-13694	-13628
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3584	28	22	0.00	0.00		-12291	-12290	-12218	-12219
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3584	28	22	0.00	0.00		-12875	-12874	-12804	-12805
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3584	28	22	0.00	0.00		-12872	-12871	-12801	-12802
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3584	28	22	0.00	0.00		-15031	-15103	-15092	-15030
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3584	28	22	0.00	0.00		-13502	-13568	-13567	-13501
3584	28	22	0.00	0.00		-15232	-15298	-15297	-15231
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3584	28	22	0.00	0.00		-15513	-15512	-15446	-15447
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3584	28	22	0.00	0.00		-15292	-15358	-15357	-15291
3584	28	22	0.00	0.00		-16558	-16591	-16590	-16557
3584	28	22	0.00	0.00		-10760	-10759	-10671	-10672
3584	28	22	0.00	0.00		-16029	-16095	-16094	-16028
3584	28	22	0.00	0.00		-14923	-14922	-14856	-14857
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3584	28	22	0.00	0.00		-14765	-14831	-14830	-14764
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3584	28	22	0.00	0.00		-15029	-15102	-15101	-15028
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3584	28	22	0.00	0.00		-15230	-15296	-15295	-15229
3584	28	22	0.00	0.00		-14924	-14923	-14857	-14858
3584	28	22	0.00	0.00		-16160	-16226	-16225	-16159
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3584	28	22	0.00	0.00		-16506	-16505	-16439	-16440
3584	28	22	0.00	0.00		-15449	-15448	-15382	-15383
3584	28	22	0.00	0.00		-14581	-14580	-14510	-14511
3584	28	22	0.00	0.00		-16503	-16502	-16436	-16437
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3584	28	22	0.00	0.00		-16446	-16445	-16379	-16380
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3584	28	22	0.00	0.00		-14046	-14069	-13979	-13980
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3584	28	22	0.00	0.00		-16092	-16158	-16157	-16091
3584	28	22	0.00	0.00		-16435	-16434	-16368	-16369
3584	28	22	0.00	0.00		-15034	-15093	-15104	-15033
3584	28	22	0.00	0.00		-16290	-16356	-16355	-16289
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3584	28	22	0.00	0.00		-15026	-15099	-15091	-15025
3584	28	22	0.00	0.00		-12351	-12350	-12282	-12283
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3584	28	22	0.00	0.00		-16091	-16157	-16156	-16090
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3584	28	22	0.00	0.00		-16314	-16313	-16247	-16248
3584	28	22	0.00	0.00		-12582	-12581	-12497	-12498
3584	28	22	0.00	0.00		-10972	-10971	-10891	-10907
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3584	28	22	0.00	0.00		-16090	-16156	-16155	-16089
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3584	28	22	0.00	0.00		-14456	-14455	-14389	-14390

3584	28	22	0.00	0.00		-11116	-11115	-11048	-11049
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3584	28	22	0.00	0.00		-14383	-14382	-14316	-14317
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3584	28	22	0.00	0.00		-12427	-12426	-12360	-12361
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3584	28	22	0.00	0.00		-10832	-10831	-10766	-10767
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3584	28	22	0.00	0.00		-16426	-16492	-16491	-16425
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3584	28	22	0.00	0.00		-11993	-11965	-11860	-11874
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3584	28	22	0.00	0.00		-16488	-16554	-16553	-16487
3584	28	22	0.00	0.00		-16374	-16373	-16307	-16308
3584	28	22	0.00	0.00		-15160	-15227	-15226	-15159
3584	28	22	0.00	0.00		-16025	-16091	-16090	-16024
3584	28	22	0.00	0.00		-16371	-16370	-16304	-16305
3584	28	22	0.00	0.00		-16157	-16223	-16222	-16156
3584	28	22	0.00	0.00		-14761	-14827	-14826	-14760
3584	28	22	0.00	0.00		-14827	-14893	-14892	-14826
3584	28	22	0.00	0.00		-11048	-11037	-10971	-10972
3584	28	22	0.00	0.00		-14959	-15025	-15024	-14958
3584	28	22	0.00	0.00		-16312	-16311	-16245	-16246
3584	28	22	0.00	0.00		-13426	-13496	-13495	-13425
3584	28	22	0.00	0.00		-16309	-16308	-16242	-16243
3584	28	22	0.00	0.00		-15226	-15292	-15291	-15225
3584	28	22	0.00	0.00		-13628	-13694	-13693	-13627
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3584	28	22	0.00	0.00		-16303	-16302	-16236	-16237
3584	28	22	0.00	0.00		-13701	-13767	-13766	-13700
3584	28	22	0.00	0.00		-13425	-13495	-13494	-13424
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3584	28	22	0.00	0.00		-15380	-15379	-15313	-15314
3584	28	22	0.00	0.00		-16609	-16608	-16575	-16576
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3584	28	22	0.00	0.00		-16240	-16239	-16173	-16174
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3584	28	22	0.00	0.00		-16042	-16041	-15975	-15976
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3584	28	22	0.00	0.00		-15036	-15094	-15105	-15035
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3584	28	22	0.00	0.00		-16220	-16286	-16285	-16219
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3584	28	22	0.00	0.00		-14295	-14361	-14360	-14294
3584	28	22	0.00	0.00		-16171	-16170	-16104	-16105
3584	28	22	0.00	0.00		-16116	-16115	-16049	-16050
3584	28	22	0.00	0.00		-10578	-10630	-10481	-10482
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3584	28	22	0.00	0.00		-16441	-16440	-16374	-16375
3584	28	22	0.00	0.00		-16024	-16090	-16089	-16023
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3584	28	22	0.00	0.00		-16045	-16044	-15978	-15979
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3584	28	22	0.00	0.00		-15132	-15166	-15165	-15103
3584	28	22	0.00	0.00		-16422	-16488	-16487	-16421
3584	28	22	0.00	0.00		-16375	-16374	-16308	-16309
3584	28	22	0.00	0.00		-16475	-16474	-16540	-16541
3584	28	22	0.00	0.00		-16486	-16552	-16551	-16485
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3584	28	22	0.00	0.00		-14899	-14965	-14964	-14898
3584	28	22	0.00	0.00		-16291	-16357	-16356	-16290
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3584	28	22	0.00	0.00		-13442	-13441	-13369	-13370
3584	28	22	0.00	0.00		-16355	-16421	-16420	-16354
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3584	28	22	0.00	0.00		-14162	-14228	-14227	-14161
3584	28	22	0.00	0.00		-14294	-14360	-14359	-14293
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3617	34	22	0.00	0.00		-15270	-11040	-11635	-15269
3619	34	22	0.00	0.00		-13955	-15262	-15263	
3619	34	22	0.00	0.00		-15263	-15264	-13955	
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3621	34	22	0.00	0.00		-13956	-15284	-15285	
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3623	34	22	0.00	0.00		-9987	-9167	-15940	-15941
3623	35	22	0.00	0.00		-13280	-13488	-15937	-15938
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3625	34	22	0.00	0.00		-15931	-11683	-12257	-15930
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3628	34	22	0.00	0.00		-15949	-14557	-15947	-15948
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3630	36	22	0.00	0.00		-12752	-12753	-12823	-12822
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3630	28	22	0.00	0.00		-14825	-14824	-14890	-14891
3630	36	22	0.00	0.00		-15800	-15801	-15867	-15866
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3630	28	22	0.00	0.00		-14891	-14890	-14956	-14957
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3630	36	22	0.00	0.00		-13939	-13940	-14010	-14009
3630	36	22	0.00	0.00		-13471	-13472	-13542	-13541
3630	36	22	0.00	0.00		-13470	-13471	-13541	-13540

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3630	36	22	0.00	0.00		-15073	-15074	-15144	-15143
3630	36	22	0.00	0.00		-15074	-15075	-15145	-15144
3630	36	22	0.00	0.00		-14876	-14877	-14943	-14942
3630	36	22	0.00	0.00		-15671	-15672	-15738	-15737
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3630	36	22	0.00	0.00		-15866	-15867	-15934	-15933
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3630	36	22	0.00	0.00		-11269	-11270	-11342	-11341
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3630	36	22	0.00	0.00		-13399	-13400	-13472	-13471
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3630	36	22	0.00	0.00		-16134	-16135	-16201	-16200
3630	36	22	0.00	0.00		-15935	-15936	-16002	-16001
3630	36	22	0.00	0.00		-10703	-10704	-10789	-10788
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3630	36	22	0.00	0.00		-12100	-12036	-12162	-12186
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3630	36	22	0.00	0.00		-13539	-13540	-13606	-13605
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3630	36	22	0.00	0.00		-13197	-13198	-13264	-13263
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3630	36	22	0.00	0.00		-14474	-14475	-14541	-14540
3630	36	22	0.00	0.00		-14609	-14610	-14678	-14677
3630	36	22	0.00	0.00		-16133	-16134	-16200	-16199
3630	36	22	0.00	0.00		-12891	-12892	-12974	-12973
3630	28	22	0.00	0.00		-15928	-15927	-15993	-15994
3630	36	22	0.00	0.00		-14408	-14409	-14475	-14474
3630	36	22	0.00	0.00		-14210	-14211	-14277	-14276
3630	36	22	0.00	0.00		-14275	-14276	-14342	-14341
3630	36	22	0.00	0.00		-14276	-14277	-14343	-14342
3630	28	22	0.00	0.00		-13619	-13685	-13686	-13620
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3630	28	22	0.00	0.00		-14091	-14090	-14158	-14159
3630	36	22	0.00	0.00		-12607	-12608	-12682	-12681
3630	36	22	0.00	0.00		-14008	-14009	-14064	-14079
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3630	36	22	0.00	0.00		-13805	-13806	-13872	-13871
3630	28	22	0.00	0.00		-14086	-14085	-14153	-14154
3630	36	22	0.00	0.00		-13871	-13872	-13940	-13939
3630	28	22	0.00	0.00		-14084	-14083	-14151	-14152
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3630	36	22	0.00	0.00		-13541	-13542	-13608	-13607
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3630	36	22	0.00	0.00		-13263	-13264	-13333	-13332
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3630	36	22	0.00	0.00		-11203	-11204	-11270	-11269
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3630	36	22	0.00	0.00		-12609	-12610	-12684	-12683
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3630	36	22	0.00	0.00		-10500	-10501	-10632	-10590
3630	36	22	0.00	0.00		-10501	-10502	-10617	-10632
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3630	36	22	0.00	0.00		-11981	-11982	-12036	-12100
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3630	36	22	0.00	0.00		-12682	-12683	-12754	-12753
3630	36	22	0.00	0.00		-12823	-12824	-12894	-12893
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3630	28	22	0.00	0.00		-14347	-14346	-14412	-14413
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3630	28	22	0.00	0.00		-13942	-13941	-14011	-14012
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3630	28	22	0.00	0.00		-14024	-14023	-14090	-14091
3630	36	22	0.00	0.00		-10931	-10932	-10997	-10996
3630	36	22	0.00	0.00		-14539	-14540	-14610	-14609
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3630	28	22	0.00	0.00		-10786	-10785	-10843	-10858
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3630	36	22	0.00	0.00		-15339	-15340	-15406	-15405
3630	28	22	0.00	0.00		-14153	-14152	-14218	-14219
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3630	28	22	0.00	0.00		-16055	-16054	-16120	-16121
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3630	28	22	0.00	0.00		-13867	-13866	-13934	-13935
3630	28	22	0.00	0.00		-13260	-13259	-13328	-13329
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3630	28	22	0.00	0.00		-11753	-11752	-11818	-11819
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3630	36	22	0.00	0.00		-15207	-15208	-15275	-15274
3630	28	22	0.00	0.00		-13954	-13953	-14023	-14024
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3630	28	22	0.00	0.00		-16256	-16255	-16321	-16322
3630	28	22	0.00	0.00		-16322	-16321	-16387	-16388
3630	28	22	0.00	0.00		-12605	-12604	-12678	-12679
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3630	36	22	0.00	0.00		-14810	-14811	-14877	-14876
3630	36	22	0.00	0.00		-13330	-13331	-13398	-13397
3630	28	22	0.00	0.00		-13552	-13618	-13619	-13553
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3630	36	22	0.00	0.00		-12681	-12682	-12753	-12752
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3630	28	22	0.00	0.00		-15929	-15928	-15994	-15995
3630	36	22	0.00	0.00		-12443	-12444	-12530	-12517
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3630	28	22	0.00	0.00		-16193	-16192	-16258	-16259
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3630	28	22	0.00	0.00		-16326	-16325	-16391	-16392
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3630	28	22	0.00	0.00		-11676	-11740	-11741	-11677
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3630	28	22	0.00	0.00		-11539	-11609	-11610	-11540
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3630	28	22	0.00	0.00		-12242	-12314	-12315	-12243
3630	28	22	0.00	0.00		-12314	-12382	-12383	-12315
3630	28	22	0.00	0.00		-12382	-12448	-12449	-12383
3630	28	22	0.00	0.00		-12448	-12534	-12548	-12449
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3630	28	22	0.00	0.00		-13207	-13273	-13274	-13208
3630	28	22	0.00	0.00		-12550	-12620	-12621	-12540
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3630	28	22	0.00	0.00		-11890	-11983	-12012	-11899
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3630	28	22	0.00	0.00		-12022	-12164	-12171	-12101
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3630	28	22	0.00	0.00		-13136	-13208	-13209	-13137
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3630	28	22	0.00	0.00		-12384	-12450	-12451	-12385
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3630	28	22	0.00	0.00		-12247	-12319	-12320	-12248
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3630	28	22	0.00	0.00		-11274	-11346	-11347	-11275
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3630	28	22	0.00	0.00		-13477	-13547	-13548	-13478
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3630	28	22	0.00	0.00		-11696	-11762	-11763	-11697
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3630	28	22	0.00	0.00		-13335	-13402	-13403	-13336
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3630	28	22	0.00	0.00		-13267	-13336	-13337	-13268
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3630	28	22	0.00	0.00		-11701	-11767	-11768	-11702
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3630	28	22	0.00	0.00		-12537	-12617	-12618	-12538
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3630	28	22	0.00	0.00		-11282	-11354	-11355	-11283
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3630	28	22	0.00	0.00		-13818	-13884	-13885	-13819

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3630	28	22	0.00	0.00		-13745	-13811	-13812	-13746
3630	28	22	0.00	0.00		-11086	-11152	-11153	-11087
3630	28	22	0.00	0.00		-13877	-13945	-13946	-13878
3630	28	22	0.00	0.00		-13270	-13339	-13340	-13271
3630	28	22	0.00	0.00		-13339	-13406	-13407	-13340
3630	28	22	0.00	0.00		-11356	-11422	-11423	-11357
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3630	28	22	0.00	0.00		-13548	-13614	-13615	-13549
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3630	28	22	0.00	0.00		-13271	-13340	-13341	-13272
3630	28	22	0.00	0.00		-13340	-13407	-13408	-13341
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3630	28	22	0.00	0.00		-12538	-12618	-12619	-12539
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3630	28	22	0.00	0.00		-12548	-12613	-12614	-12535
3630	28	22	0.00	0.00		-12613	-12687	-12688	-12614
3630	28	22	0.00	0.00		-13204	-13270	-13271	-13205
3630	28	22	0.00	0.00		-11705	-11771	-11772	-11682
3630	28	22	0.00	0.00		-12828	-12898	-12899	-12829
3630	28	22	0.00	0.00		-11350	-11416	-11417	-11351
3630	28	22	0.00	0.00		-12978	-13059	-13060	-12979
3630	28	22	0.00	0.00		-11556	-11626	-11627	-11557
3630	28	22	0.00	0.00		-12766	-12836	-12837	-12767
3630	28	22	0.00	0.00		-13061	-13131	-13132	-13062
3630	28	22	0.00	0.00		-13131	-13203	-13204	-13132
3630	28	22	0.00	0.00		-13133	-13205	-13206	-13134
3630	28	22	0.00	0.00		-12688	-12759	-12760	-12689
3630	28	22	0.00	0.00		-12759	-12829	-12830	-12760
3630	28	22	0.00	0.00		-12829	-12899	-12900	-12830
3630	28	22	0.00	0.00		-12899	-12979	-12980	-12900
3630	28	22	0.00	0.00		-11557	-11627	-11628	-11558
3630	28	22	0.00	0.00		-13060	-13121	-13131	-13061
3630	28	22	0.00	0.00		-13121	-13202	-13203	-13131
3630	28	22	0.00	0.00		-13202	-13268	-13269	-13203
3630	28	22	0.00	0.00		-12549	-12615	-12616	-12536
3630	28	22	0.00	0.00		-12615	-12689	-12690	-12616
3630	28	22	0.00	0.00		-11214	-11280	-11281	-11215
3630	28	22	0.00	0.00		-11352	-11418	-11419	-11353
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3630	28	22	0.00	0.00		-11488	-11558	-11559	-11489
3630	28	22	0.00	0.00		-11284	-11356	-11357	-11285
3630	28	22	0.00	0.00		-12902	-12982	-12983	-12903
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3630	28	22	0.00	0.00		-12690	-12761	-12762	-12691
3630	28	22	0.00	0.00		-12761	-12831	-12832	-12762
3630	28	22	0.00	0.00		-11419	-11489	-11490	-11420
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3630	28	22	0.00	0.00		-12985	-13066	-13067	-12986
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3630	28	22	0.00	0.00		-11278	-11350	-11351	-11279
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3630	28	22	0.00	0.00		-11492	-11562	-11563	-11493
3630	28	22	0.00	0.00		-11632	-11704	-11705	-11633
3630	28	22	0.00	0.00		-11085	-11151	-11152	-11086
3630	28	22	0.00	0.00		-12618	-12692	-12693	-12619
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3630	28	22	0.00	0.00		-11283	-11355	-11356	-11284
3630	28	22	0.00	0.00		-11695	-11761	-11762	-11696
3630	28	22	0.00	0.00		-11487	-11557	-11558	-11488
3630	28	22	0.00	0.00		-12767	-12837	-12838	-12768
3630	28	22	0.00	0.00		-11561	-11631	-11632	-11562
3630	28	22	0.00	0.00		-13134	-13206	-13207	-13135
3630	28	22	0.00	0.00		-11348	-11414	-11415	-11349
3630	28	22	0.00	0.00		-12539	-12619	-12620	-12550
3630	28	22	0.00	0.00		-11563	-11633	-11634	-11564

3630	28	22	0.00	0.00		-12693	-12764	-12765	-12694
3630	28	22	0.00	0.00		-13210	-13276	-13277	-13211
3630	28	22	0.00	0.00		-11218	-11284	-11285	-11219
3630	28	22	0.00	0.00		-12835	-12905	-12906	-12836
3630	28	22	0.00	0.00		-12697	-12768	-12769	-12698
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3630	28	22	0.00	0.00		-11704	-11770	-11771	-11705
3630	28	22	0.00	0.00		-11087	-11153	-11154	-11088
3630	28	22	0.00	0.00		-13069	-13139	-13140	-13070
3630	28	22	0.00	0.00		-12620	-12694	-12695	-12621
3630	28	22	0.00	0.00		-12694	-12765	-12766	-12695
3630	28	22	0.00	0.00		-11357	-11423	-11424	-11358
3630	28	22	0.00	0.00		-11077	-11142	-11143	-11078
3630	28	22	0.00	0.00		-11423	-11493	-11494	-11424
3630	28	22	0.00	0.00		-11629	-11701	-11702	-11630
3630	28	22	0.00	0.00		-15272	-15271	-15337	-15338
3630	28	22	0.00	0.00		-11212	-11278	-11279	-11213
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3630	28	22	0.00	0.00		-11351	-11417	-11418	-11352
3630	28	22	0.00	0.00		-12541	-12622	-12623	-12542
3630	28	22	0.00	0.00		-11152	-11218	-11219	-11153
3630	28	22	0.00	0.00		-11417	-11487	-11488	-11418
3630	28	22	0.00	0.00		-15667	-15666	-15732	-15733
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3630	28	22	0.00	0.00		-11084	-11149	-11150	-11039
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3630	28	22	0.00	0.00		-14536	-14535	-14605	-14606
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3630	28	22	0.00	0.00		-11219	-11285	-11286	-11220
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3630	28	22	0.00	0.00		-11562	-11632	-11633	-11563
3630	28	22	0.00	0.00		-11146	-11212	-11213	-11147
3630	28	22	0.00	0.00		-11285	-11357	-11358	-11286
3630	28	22	0.00	0.00		-13211	-13277	-13278	-13212
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3632	34	22	0.00	0.00		-10065	-9432	-16600	-16601
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3632	35	22	0.00	0.00		-12328	-10726	-16598	-16599
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3634	34	22	0.00	0.00		-16591	-12327	-12915	-16590
3634	35	22	0.00	0.00		-13887	-11014	-10725	-16592
3634	34	22	0.00	0.00		-16589	-16590	-12915	-10064
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3638	34	22	0.00	0.00		-16606	-16607	-15098	
3638	34	22	0.00	0.00		-15098	-13170	-16605	
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3643	35	22	0.00	0.00		-10214	-11637	-15964	-15965
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3666	35	22	0.00	0.00		-12573	-10314	-10241	-12572
3667	34	22	0.00	0.00		-12563	-11497	-12561	-12562
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3669	34	22	0.00	0.00		-12589	-11498	-12587	-12588
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3687	35	22	0.00	0.00		-9668	-10383	-14640	-14641
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3687	35	22	0.00	0.00		-12259	-9951	-9819	-12078
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3695	34	22	0.00	0.00		-15294	-14627	-15293	
3695	34	22	0.00	0.00		-15295	-13957	-14627	-15294
3695	34	22	0.00	0.00		-11868	-13957	-15297	
3695	34	22	0.00	0.00		-13957	-15295	-15296	
3695	34	22	0.00	0.00		-15296	-15297	-13957	
3696	34	22	0.00	0.00		-15318	-15319	-13958	
3696	34	22	0.00	0.00		-15321	-13958	-15319	-15320
3696	34	22	0.00	0.00		-13958	-11893	-15317	
3696	34	22	0.00	0.00		-13958	-15317	-15318	
3697	34	22	0.00	0.00		-10649	-10261	-11117	-11118
3697	34	22	0.00	0.00		-10261	-9895	-11116	-11117
3698	34	22	0.00	0.00		-10260	-11093	-11092	-10656
3698	34	22	0.00	0.00		-10260	-10727	-11094	-11093
3699	26	11	0.00	0.00		-11517	-9844	-9835	-11447
3700	26	11	0.00	0.00		-11410	-9831	-9816	-11480
3701	26	11	0.00	0.00		-11513	-9833	-9834	-11443
3702	26	11	0.00	0.00		-11406	-9851	-9861	-11476

## Carichi

### Condizioni di carico elementari

#### Simbologia

- CCE = Numero della condizione di carico elementare  
 Comm. = Commento  
 Tipo CCE = Tipo di CCE per calcolo agli stati limite  
 Dir. = Direzione del vento  
 Tipo = Tipologia di pressione vento  
     M = Massimizzata  
     E = Esterna  
     I = Interna  
 Mx = Moltiplicatore della massa in dir. X  
 My = Moltiplicatore della massa in dir. Y  
 Mz = Moltiplicatore della massa in dir. Z  
 Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X  
 Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y  
 Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z

CCE	Comm.	Tipo CCE	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	Peso proprio	1 D.M. 18 Permanenti strutturali	--	--	1.00	1.00	1.00	0.00	0.00	1.00
2	Permanenti G1	1 D.M. 18 Permanenti strutturali	--	--	1.00	1.00	1.00	0.00	0.00	1.00
3	Permanenti NS G2	2 D.M. 18 Permanenti non strutturali	--	--	1.00	1.00	1.00	0.00	0.00	1.00
4	Variabili impalc. (pieno)	5 D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	--	--	1.00	1.00	1.00	0.00	0.00	1.00
5	Variabili impalc. (caso 1)	5 D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	--	--	1.00	1.00	1.00	0.00	0.00	1.00
6	Variabili impalc. (caso 2)	5 D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	--	--	1.00	1.00	1.00	0.00	0.00	1.00
7	Variabili impalc. (caso 3)	5 D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	--	--	1.00	1.00	1.00	0.00	0.00	1.00
8	Variabili impalc. (caso 4)_tors	5 D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	--	--	1.00	1.00	1.00	0.00	0.00	1.00
9	Var. termiche	10 D.M. 18 Variabili Variazioni termiche	--	--	1.00	1.00	0.00	0.00	0.00	1.00
10	Vento +X	11 D.M. 18 Variabili Vento	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00
11	Vento +Z vertic.	11 D.M. 18 Variabili Vento	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00
12	Vento mz tors.	11 D.M. 18 Variabili Vento	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00

### Elenco carichi nodi

**Condizione di carico n. 5: Variabili impalc. (caso 1)**

**Carichi concentrati**

**Simbologia**

Nodo = Numero del nodo  
 Fx = Componente X della forza applicata  
 Fy = Componente Y della forza applicata  
 Fz = Componente Z della forza applicata  
 Mx = Momento intorno all'asse X  
 My = Momento intorno all'asse Y  
 Mz = Momento intorno all'asse Z

Nodo	Fx <daN>	Fy <daN>	Fz <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
-10294	0.00	0.00	1.00	0.00	0.00	0.00

**Elenco carichi nodi**

**Condizione di carico n. 9: Var. termiche**

**Carichi concentrati**

Nodo	Fx <daN>	Fy <daN>	Fz <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
-10294	0.00	0.00	1.00	0.00	0.00	0.00

**Elenco carichi aste**

**Condizione di carico n. 1: Peso proprio**

**Elenco peso proprio aste**

**Simbologia**

Sez. = Numero della sezione  
 Comm. = Commento  
 A = Area  
 Mat. = Materiale  
 P = Peso specifico  
 PL = Peso specifico a metro lineare

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
28	Appoggio travi - 80x120	96.000000	Acciaio	7850.00	75.36
31	Tubo circolare d=114.3x6 mm - S355	20.414100	Acciaio	7850.00	16.03
32	Tubo 60x80x5 mm - S355	13.000000	Acciaio	7850.00	10.21
33	Tubo 60x100x5 mm - S355	15.000000	Acciaio	7850.00	11.78
34	Tubo 80x120x5 mm - S355	19.000000	Acciaio	7850.00	14.91
35	2 L80x60x8 - dist 6 mm - S275	21.465700	Acciaio	7850.00	16.85
36	Nervatura 50x6 mm - S275	5.640000	Acciaio	7850.00	4.43
37	2 L80x60x8 - dist 6 mm - S275	21.465700	Acciaio	7850.00	16.85
38	Tubo 80x80x4 mm - S235	12.160000	Acciaio	7850.00	9.55
39	Tubo circolare d=70x4 mm - S355	8.293810	Acciaio	7850.00	6.51
47	2 L80x60x8 - dist 6 mm - S275	21.465700	Acciaio	7850.00	16.85
48	Tubo circolare d=101.6x6 mm - S355	18.020200	Acciaio	7850.00	14.15
50	Tubo circolare d=90x4 mm - S355	10.807100	Acciaio	7850.00	8.48
52	T 80x80x6 mm - S275	9.240000	Acciaio	7850.00	7.25
53	Tubo 60x60x4 mm - S235	8.960000	Acciaio	7850.00	7.03
54	L80x8 mm - S275	12.267400	Acciaio	7850.00	9.63
57	Appoggio travi - 120x10	12.000000	Acciaio	7850.00	9.42
59	Tubo circolare d=139.7x6 mm - S355	25.201800	Acciaio	7850.00	19.78
61	Tubo 60x120x4 mm - S235	13.760000	Acciaio	7850.00	10.80
68	Tubo 80x100x(2x5+6) mm - S355 (32)	26.240000	Acciaio	7850.00	20.60

**Elenco carichi aste**

**Condizione di carico n. 3: Permanenti NS G2**

**Carichi distribuiti**

**Simbologia**

Asta = Numero dell'asta  
 N1 = Nodo iniziale  
 N2 = Nodo finale  
 E = Elemento provenienza del carico  
 S = Solaio  
 T = Tamponatura  
 NE = Numero elemento di provenienza del carico  
 T = Tipo di carico  
 QA = Primo carico accidentale  
 QA2 = Secondo carico accidentale  
 QA3 = Terzo carico accidentale  
 QPS = Carico permanente strutturale  
 QPN = Carico permanente non strutturale  
 VE = Vento





4360	-14924	-14858	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14858	-14792	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14792	-14726	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14726	-14660	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14660	-14592	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14592	-14522	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14522	-14456	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14456	-14390	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14390	-14324	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14324	-14258	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14258	-14192	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14192	-14126	S	--	MZG	0.00	30.00	0.10	30.00
4360	-14126	-14056	S	--	MZG	0.00	30.00	0.10	30.00	4360	-14056	-13991	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13991	-13921	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13921	-13853	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13853	-13787	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13787	-13721	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13721	-13655	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13655	-13589	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13589	-13523	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13523	-13453	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13453	-13381	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13381	-13314	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13314	-13245	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13245	-13182	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13182	-13104	S	--	MZG	0.00	30.00	0.10	30.00	4360	-13104	-13037	S	--	MZG	0.00	30.00	0.10	30.00
4360	-13037	-12953	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12953	-12876	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12876	-12806	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12806	-12736	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12736	-12665	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12665	-12591	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12591	-12507	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12507	-12427	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12427	-12361	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12361	-12293	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12293	-12221	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12221	-12156	S	--	MZG	0.00	30.00	0.10	30.00
4360	-12156	-12059	S	--	MZG	0.00	30.00	0.10	30.00	4360	-12059	-11966	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11966	-11875	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11875	-11805	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11805	-11739	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11739	-11675	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11675	-11601	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11601	-11531	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11531	-11461	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11461	-11391	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11391	-11325	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11325	-11253	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11253	-11187	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11187	-11121	S	--	MZG	0.00	30.00	0.10	30.00
4360	-11121	-11059	S	--	MZG	0.00	30.00	0.10	30.00	4360	-11059	-10978	S	--	MZG	0.00	30.00	0.10	30.00
4360	-10978	-10911	S	--	MZG	0.00	30.00	0.10	30.00	4360	-10911	-10836	S	--	MZG	0.00	30.00	0.10	30.00
4360	-10836	-10771	S	--	MZG	0.00	30.00	0.10	30.00	4360	-10771	-10680	S	--	MZG	0.00	30.00	0.10	30.00
4360	-10680	-10580	S	--	MZG	0.00	30.00	0.10	30.00	4360	-10580	-10485	S	--	MZG	0.00	30.00	0.10	30.00
4360	-10485	-10415	S	--	MZG	0.00	30.00	0.10	30.00	4360	-10415	-10337	S	--	MZG	0.00	30.00	0.10	30.00

**Elenco carichi aste**

**Condizione di carico n. 9: Var. termiche**

**Carichi distribuiti**

**Simbologia**

Asta = Numero dell'asta

N1 = Nodo iniziale

N2 = Nodo finale

DT = Incremento di temperatura

Gy = Gradiente termico in dir. Y

Gz = Gradiente termico in dir. Z

Asta	N1	N2	DT <°C>	Gy <°C/m>	Gz <°C/m>
0	2810	3110	25.00		
2355	2309	-2524	25.00		
2355	-2490	-2480	25.00		
2355	-2473	-2460	25.00		
2355	-2434	-2429	25.00		
2355	-2421	-2418	25.00		
2370	-2523	-2489	25.00		
2370	-2479	-2472	25.00		
2370	-2459	-2433	25.00		
2370	-2428	-2420	25.00		
2461	2308	-11071	25.00		
2465	2308	-11754	25.00		
2589	2312	-11787	25.00		
2593	2313	-11107	25.00		
2687	-2417	-2422	25.00		
2687	-2430	-2435	25.00		
2687	-2461	-2474	25.00		
2687	-2481	-2491	25.00		
2687	-2529	2312	25.00		
2702	-2423	-2431	25.00		
2702	-2436	-2462	25.00		
2702	-2475	-2482	25.00		
2702	-2492	-2530	25.00		
3063	-2474	-2558	25.00		
3063	-3028	2810	25.00		
3063	-8282	-9826	25.00		
3064	-2475	-2559	25.00		
3064	-3029	2811	25.00		
3064	-8283	-13302	25.00		
3231	-2512	-3096	25.00		
3231	3001	-9176	25.00		

Asta	N1	N2	DT <°C>	Gy <°C/m>	Gz <°C/m>
0	2811	3111	25.00		
2355	-2524	-2490	25.00		
2355	-2480	-2473	25.00		
2355	-2460	-2434	25.00		
2355	-2429	-2421	25.00		
2370	2308	-2523	25.00		
2370	-2489	-2479	25.00		
2370	-2472	-2459	25.00		
2370	-2433	-2428	25.00		
2370	-2420	-2417	25.00		
2463	2309	-11075	25.00		
2466	2309	-11758	25.00		
2590	2313	-11791	25.00		
2594	2312	-11103	25.00		
2687	-2422	-2430	25.00		
2687	-2435	-2461	25.00		
2687	-2474	-2481	25.00		
2687	-2491	-2529	25.00		
2702	-2418	-2423	25.00		
2702	-2431	-2436	25.00		
2702	-2462	-2475	25.00		
2702	-2482	-2492	25.00		
2702	-2530	2313	25.00		
3063	-2558	-3028	25.00		
3063	2810	-8282	25.00		
3063	-9826	-13294	25.00		
3064	-2559	-3029	25.00		
3064	2811	-8283	25.00		
3231	-2422	-2512	25.00		
3231	-3096	3001	25.00		
3231	-9176	-11637	25.00		

3231	-11637	-15964	25.00			3318	2308	-2703	25.00		
3318	-2703	-2932	25.00			3318	-2932	-3124	25.00		
3318	-3124	-3350	25.00			3318	-3350	-3678	25.00		
3318	-3678	-4184	25.00			3318	-4184	-5527	25.00		
3318	-5527	-7067	25.00			3318	-7067	-7782	25.00		
3318	-7782	-8583	25.00			3318	-8583	3501	25.00		
3319	-10278	-10277	25.00			3319	-10279	-10278	25.00		
3319	-10280	-10279	25.00			3319	-10281	-10280	25.00		
3319	-10282	-10281	25.00			3319	-10283	-10282	25.00		
3319	-10284	-10283	25.00			3319	-10285	-10284	25.00		
3319	-10286	-10285	25.00			3319	-10287	-10286	25.00		
3319	-10288	-10287	25.00			3319	3501	-10288	25.00		
3319	-10289	3501	25.00			3319	-10290	-10289	25.00		
3319	-10291	-10290	25.00			3319	-10292	-10291	25.00		
3319	-10293	-10292	25.00			3319	-10294	-10293	25.00		
3319	-10295	-10294	25.00			3319	3502	-10295	25.00		
3319	-10296	3502	25.00			3319	-10297	-10296	25.00		
3319	-10298	-10297	25.00			3319	-10299	-10298	25.00		
3319	-10300	-10299	25.00			3319	-10301	-10300	25.00		
3319	-10302	-10301	25.00			3319	-10303	-10302	25.00		
3319	-10304	-10303	25.00			3319	-10305	-10304	25.00		
3319	-10306	-10305	25.00			3319	-10307	-10306	25.00		
3337	-10316	-10349	25.00			3337	-10317	-10316	25.00		
3337	-10374	-10317	25.00			3337	-10318	-10374	25.00		
3337	-10319	-10318	25.00			3337	-10320	-10319	25.00		
3337	-10350	-10320	25.00			3337	-10321	-10350	25.00		
3337	-10351	-10321	25.00			3337	-10322	-10351	25.00		
3337	-10323	-10322	25.00			3337	3503	-10323	25.00		
3337	-10324	3503	25.00			3337	-10325	-10324	25.00		
3337	-10326	-10325	25.00			3337	-10327	-10326	25.00		
3337	-10328	-10327	25.00			3337	-10352	-10328	25.00		
3337	-10329	-10352	25.00			3337	3504	-10329	25.00		
3337	-10330	3504	25.00			3337	-10353	-10330	25.00		
3337	-10354	-10353	25.00			3337	-10355	-10354	25.00		
3337	-10331	-10355	25.00			3337	-10332	-10331	25.00		
3337	-10333	-10332	25.00			3337	-10356	-10333	25.00		
3337	-10334	-10356	25.00			3337	-10335	-10334	25.00		
3337	-10336	-10335	25.00			3337	-10337	-10336	25.00		
3338	2312	-2726	25.00			3338	-2726	-2945	25.00		
3338	-2945	-3126	25.00			3338	-3126	-3352	25.00		
3338	-3352	-3690	25.00			3338	-3690	-4196	25.00		
3338	-4196	-5560	25.00			3338	-5560	-7070	25.00		
3338	-7070	-7799	25.00			3338	-7799	-8598	25.00		
3338	-8598	3503	25.00			3361	3111	-7321	25.00		
3362	3110	-7320	25.00			3423	3201	-8290	25.00		
3518	-4184	-5144	25.00			3519	-9984	-10279	25.00		
3519	-9612	-9984	25.00			3520	-10687	-11062	25.00		
3520	-10258	-10687	25.00			3521	-10915	-11742	25.00		
3522	-12004	-12510	25.00			3522	-11495	-12004	25.00		
3523	-12116	-13248	25.00			3524	-12770	-13924	25.00		
3525	-13415	-14595	25.00			3526	-14626	-15260	25.00		
3526	-13955	-14626	25.00			3527	-14556	-15921	25.00		
3528	-15885	-16581	25.00			3528	-15131	-15885	25.00		
3529	-15224	-15954	25.00			3529	-14558	-15224	25.00		
3530	-14627	-15293	25.00			3530	-13957	-14627	25.00		
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3536	-10656	-11091	25.00			3536	-10260	-10656	25.00		
3537	-9614	-10317	25.00			3538	-4196	-5152	25.00		
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4354	-12666	-12737	25.00			4354	-12737	-12807	25.00		
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7522	-13968	-13967	25.00			7522	-13969	-13968	25.00		
7522	-13970	-13969	25.00			7522	-13971	-13970	25.00		
7522	-13972	-13971	25.00			7522	-13973	-13972	25.00		
7522	-13974	-13973	25.00			7522	-13975	-13974	25.00		
7522	-13976	-13975	25.00			7522	-13977	-13976	25.00		
7522	-13978	-13977	25.00			7522	-13979	-13978	25.00		
7522	-13980	-13979	25.00			7522	-13981	-13980	25.00		
7522	-13982	-13981	25.00			7522	-13983	-13982	25.00		
7522	-13984	-13983	25.00			7522	-13985	-13984	25.00		
7522	-13986	-13985	25.00			7522	-13987	-13986	25.00		
7522	-13988	-13987	25.00			7522	-13989	-13988	25.00		
7522	-13990	-13989	25.00			7522	-13991	-13990	25.00		
7523	-13283	-13282	25.00			7523	-13284	-13283	25.00		
7523	-13285	-13284	25.00			7523	-13286	-13285	25.00		
7523	-13287	-13286	25.00			7523	-13288	-13287	25.00		
7523	-13289	-13288	25.00			7523	-13290	-13289	25.00		
7523	-13291	-13290	25.00			7523	-13292	-13291	25.00		
7523	-13293	-13292	25.00			7523	-13294	-13293	25.00		
7523	-13295	-13294	25.00			7523	-13296	-13295	25.00		
7523	-13297	-13296	25.00			7523	-13298	-13297	25.00		
7523	-13299	-13298	25.00			7523	-13300	-13299	25.00		
7523	-13301	-13300	25.00			7523	-13302	-13301	25.00		
7523	-13303	-13302	25.00			7523	-13304	-13303	25.00		
7523	-13305	-13304	25.00			7523	-13306	-13305	25.00		
7523	-13307	-13306	25.00			7523	-13308	-13307	25.00		
7523	-13309	-13308	25.00			7523	-13310	-13309	25.00		
7523	-13311	-13310	25.00			7523	-13312	-13311	25.00		
7523	-13313	-13312	25.00			7523	-13314	-13313	25.00		
7524	-12560	-12559	25.00			7524	-12561	-12560	25.00		
7524	-12562	-12561	25.00			7524	-12563	-12562	25.00		
7524	-12564	-12563	25.00			7524	-12565	-12564	25.00		
7524	-12566	-12565	25.00			7524	-12567	-12566	25.00		
7524	-12568	-12567	25.00			7524	-12569	-12568	25.00		
7524	-12570	-12569	25.00			7524	-12571	-12570	25.00		
7524	-12572	-12571	25.00			7524	-12573	-12572	25.00		
7524	-12574	-12573	25.00			7524	-12575	-12574	25.00		
7524	-12576	-12575	25.00			7524	-12577	-12576	25.00		
7524	-12578	-12577	25.00			7524	-12579	-12578	25.00		
7524	-12580	-12579	25.00			7524	-12581	-12580	25.00		
7524	-12582	-12581	25.00			7524	-12583	-12582	25.00		
7524	-12584	-12583	25.00			7524	-12585	-12584	25.00		
7524	-12586	-12585	25.00			7524	-12587	-12586	25.00		
7524	-12588	-12587	25.00			7524	-12589	-12588	25.00		
7524	-12590	-12589	25.00			7524	-12591	-12590	25.00		
7525	-11774	-11773	25.00			7525	-11775	-11774	25.00		
7525	-11776	-11775	25.00			7525	-11777	-11776	25.00		
7525	-11778	-11777	25.00			7525	-11779	-11778	25.00		
7525	-11780	-11779	25.00			7525	-11781	-11780	25.00		
7525	-11782	-11781	25.00			7525	-11783	-11782	25.00		
7525	-11784	-11783	25.00			7525	-11785	-11784	25.00		
7525	-11786	-11785	25.00			7525	-11787	-11786	25.00		
7525	-11788	-11787	25.00			7525	-11789	-11788	25.00		
7525	-11790	-11789	25.00			7525	-11791	-11790	25.00		
7525	-11792	-11791	25.00			7525	-11793	-11792	25.00		
7525	-11794	-11793	25.00			7525	-11795	-11794	25.00		
7525	-11796	-11795	25.00			7525	-11797	-11796	25.00		
7525	-11798	-11797	25.00			7525	-11799	-11798	25.00		
7525	-11800	-11799	25.00			7525	-11801	-11800	25.00		
7525	-11802	-11801	25.00			7525	-11803	-11802	25.00		
7525	-11804	-11803	25.00			7525	-11805	-11804	25.00		
7526	-5638	-6737	25.00			7527	-5152	-6204	25.00		
7933	-8185	-8863	25.00			8307	-4185	-5147	25.00		
8308	-11061	-11060	25.00			8308	-11062	-11061	25.00		
8308	-11038	-11062	25.00			8308	-11063	-11038	25.00		
8308	-11050	-11063	25.00			8308	-11051	-11050	25.00		
8308	-11064	-11051	25.00			8308	-11065	-11064	25.00		
8308	-11066	-11065	25.00			8308	-11067	-11066	25.00		
8308	-11068	-11067	25.00			8308	-11069	-11068	25.00		
8308	-11070	-11069	25.00			8308	-11071	-11070	25.00		
8308	-11072	-11071	25.00			8308	-11073	-11072	25.00		
8308	-11074	-11073	25.00			8308	-11075	-11074	25.00		
8308	-11076	-11075	25.00			8308	-11077	-11076	25.00		
8308	-11078	-11077	25.00			8308	-11079	-11078	25.00		
8308	-11080	-11079	25.00			8308	-11081	-11080	25.00		
8308	-11082	-11081	25.00			8308	-11083	-11082	25.00		
8308	-11084	-11083	25.00			8308	-11039	-11084	25.00		
8308	-11085	-11039	25.00			8308	-11086	-11085	25.00		

Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

8308	-11087	-11086	25.00			8308	-11088	-11087	25.00		
8309	-6969	-7939	25.00			8310	-12509	-12508	25.00		
8310	-12510	-12509	25.00			8310	-12511	-12510	25.00		
8310	-12512	-12511	25.00			8310	-12513	-12512	25.00		
8310	-12525	-12513	25.00			8310	-12514	-12525	25.00		
8310	-12515	-12514	25.00			8310	-12516	-12515	25.00		
8310	-12526	-12516	25.00			8310	-12527	-12526	25.00		
8310	-12547	-12527	25.00			8310	-12528	-12547	25.00		
8310	-12529	-12528	25.00			8310	-12517	-12529	25.00		
8310	-12530	-12517	25.00			8310	-12531	-12530	25.00		
8310	-12532	-12531	25.00			8310	-12533	-12532	25.00		
8310	-12534	-12533	25.00			8310	-12548	-12534	25.00		
8310	-12535	-12548	25.00			8310	-12549	-12535	25.00		
8310	-12536	-12549	25.00			8310	-12537	-12536	25.00		
8310	-12538	-12537	25.00			8310	-12539	-12538	25.00		
8310	-12550	-12539	25.00			8310	-12540	-12550	25.00		
8310	-12541	-12540	25.00			8310	-12542	-12541	25.00		
8310	-12543	-12542	25.00			8311	-9107	-10203	25.00		
8312	-7552	-8552	25.00			8313	-7768	-8849	25.00		
8314	-8018	-9108	25.00			8315	-8289	-9323	25.00		
8316	-8463	-9518	25.00			8317	-7153	-8291	25.00		
8318	-15292	-15291	25.00			8318	-15293	-15292	25.00		
8318	-15294	-15293	25.00			8318	-15295	-15294	25.00		
8318	-15296	-15295	25.00			8318	-15297	-15296	25.00		
8318	-15298	-15297	25.00			8318	-15299	-15298	25.00		
8318	-15300	-15299	25.00			8318	-15301	-15300	25.00		
8318	-15302	-15301	25.00			8318	-15303	-15302	25.00		
8318	-15304	-15303	25.00			8318	-15305	-15304	25.00		
8318	-15306	-15305	25.00			8318	-15307	-15306	25.00		
8318	-15308	-15307	25.00			8318	-15309	-15308	25.00		
8318	-15310	-15309	25.00			8318	-15311	-15310	25.00		
8318	-15312	-15311	25.00			8318	-15313	-15312	25.00		
8318	-15314	-15313	25.00			8318	-15315	-15314	25.00		
8318	-15316	-15315	25.00			8318	-15317	-15316	25.00		
8318	-15318	-15317	25.00			8318	-15319	-15318	25.00		
8318	-15320	-15319	25.00			8318	-15321	-15320	25.00		
8318	-15322	-15321	25.00			8318	-15323	-15322	25.00		
8319	-7770	-8859	25.00			8320	-8554	-9309	25.00		
8321	-7321	-8394	25.00			8322	-7189	-8185	25.00		
8323	-6973	-7941	25.00			8324	-11090	-11089	25.00		
8324	-11091	-11090	25.00			8324	-11092	-11091	25.00		
8324	-11093	-11092	25.00			8324	-11094	-11093	25.00		
8324	-11095	-11094	25.00			8324	-11096	-11095	25.00		
8324	-11097	-11096	25.00			8324	-11098	-11097	25.00		
8324	-11099	-11098	25.00			8324	-11100	-11099	25.00		
8324	-11101	-11100	25.00			8324	-11102	-11101	25.00		
8324	-11103	-11102	25.00			8324	-11104	-11103	25.00		
8324	-11105	-11104	25.00			8324	-11106	-11105	25.00		
8324	-11107	-11106	25.00			8324	-11108	-11107	25.00		
8324	-11109	-11108	25.00			8324	-11110	-11109	25.00		
8324	-11111	-11110	25.00			8324	-11112	-11111	25.00		
8324	-11113	-11112	25.00			8324	-11114	-11113	25.00		
8324	-11115	-11114	25.00			8324	-11116	-11115	25.00		
8324	-11117	-11116	25.00			8324	-11118	-11117	25.00		
8324	-11119	-11118	25.00			8324	-11120	-11119	25.00		
8324	-11121	-11120	25.00			8325	-5159	-6205	25.00		
9105	-5147	-6202	25.00			9106	-5625	-6723	25.00		
9107	-7939	-8550	25.00			9108	-6039	-7187	25.00		
9109	-10203	-12117	25.00			9110	-8552	-9322	25.00		
9111	-8849	-9516	25.00			9112	-9108	-9663	25.00		
9113	-9323	-9988	25.00			9114	-9518	-10213	25.00		
9115	-8291	-9324	25.00			9116	-8020	-9112	25.00		
9117	-8859	-9522	25.00			9118	-9309	-10642	25.00		
9119	-8394	-9121	25.00			9120	-8863	-9952	25.00		
9121	-7941	-8558	25.00			9122	-4181	-5639	25.00		
9122	-5639	-6738	25.00			9123	-6205	-7192	25.00		
9903	-6202	-7186	25.00			9904	-6723	-7644	25.00		
9905	-8550	-9651	25.00			9906	-7187	-8167	25.00		
9907	-12117	-13276	25.00			9908	-9322	-10639	25.00		
9909	-9516	-11288	25.00			9910	-9663	-11908	25.00		
9911	-9988	-12554	25.00			9912	-10213	-13170	25.00		
9913	-9324	-9992	25.00			9914	-9112	-9667	25.00		
9915	-9522	-11292	25.00			9916	-10642	-12773	25.00		
9917	-9121	-10207	25.00			9918	-9952	-11498	25.00		
9919	-8558	-9657	25.00			9920	-6738	-7678	25.00		
9921	-7192	-7784	25.00			10701	-7186	-7762	25.00		
10702	-7644	-8390	25.00			10703	-9651	-10875	25.00		
10704	-8167	-8847	25.00			10706	-10639	-12771	25.00		
10707	-11288	-13416	25.00			10708	-11908	-13956	25.00		

10709	-12554	-14557	25.00			10710	-13170	-15098	25.00		
10711	-9992	-12518	25.00			10712	-9667	-11893	25.00		
10713	-11292	-13418	25.00			10714	-12773	-13420	25.00		
10714	-13420	-13989	25.00			10715	-10207	-12131	25.00		
10716	-11498	-12589	25.00			10717	-9657	-10895	25.00		
10718	-7678	-8398	25.00			10719	-7784	-8958	25.00		
11499	-7762	-8931	25.00			11500	-8390	-9508	25.00		
11501	-10875	-11770	25.00			11502	-8847	-9949	25.00		
11504	-12771	-13952	25.00			11505	-13416	-14623	25.00		
11506	-13956	-15288	25.00			11507	-14557	-15949	25.00		
11508	-15098	-16609	25.00			11509	-12518	-14559	25.00		
11510	-11893	-13958	25.00			11511	-13418	-14658	25.00		
11513	-12131	-13312	25.00			11515	-10895	-11803	25.00		
11516	-8398	-9490	25.00			11517	-8958	-9347	25.00		
11517	-9347	-9615	25.00			12297	-8931	-9320	25.00		
12297	-9320	-9613	25.00			12298	-9508	-9864	25.00		
12298	-9864	-10259	25.00			12300	-9949	-10432	25.00		
12300	-10432	-11496	25.00			12307	-14559	-15982	25.00		
12308	-13958	-15321	25.00			12314	-9490	-9895	25.00		
12314	-9895	-10261	25.00			12315	-9615	-10009	25.00		
12315	-10009	-10335	25.00			13095	-9613	-9882	25.00		
13095	-9882	-10305	25.00			13096	-10259	-10634	25.00		
13096	-10634	-11086	25.00			13098	-11496	-12005	25.00		
13098	-12005	-12541	25.00			13112	-10261	-10649	25.00		
13112	-10649	-11119	25.00								

**Elenco carichi aste**

**Condizione di carico n. 10: Vento +X**

**Carichi distribuiti**

Asta	N1	N2	E	NE	T	DC	Xi	Qi	Xf	Qf	Asta	N1	N2	E	NE	T	DC	Xi	Qi	Xf	Qf
							<m>	<daN/m>	<m>	<daN/m>								<m>	<daN/m>	<m>	<daN/m>
2355	2309	-2524	S	--	M	XG	0.00	-48.20	0.98	-48.20	2355	-2524	-2490	S	--	M	XG	0.00	-48.20	0.98	-48.20
2355	-2490	-2480	S	--	M	XG	0.00	-48.20	0.98	-48.20	2355	-2480	-2473	S	--	M	XG	0.00	-48.20	0.98	-48.20
2355	-2473	-2460	S	--	M	XG	0.00	-48.20	0.98	-48.20	2355	-2460	-2434	S	--	M	XG	0.00	-48.20	0.98	-48.20
2355	-2434	-2429	S	--	M	XG	0.00	-48.20	0.98	-48.20	2355	-2429	-2421	S	--	M	XG	0.00	-48.20	0.98	-48.20
2355	-2421	-2418	S	--	M	XG	0.00	-48.20	0.98	-48.20	2370	2308	-2523	S	--	M	XG	0.00	-48.20	0.98	-48.20
2370	-2523	-2489	S	--	M	XG	0.00	-48.20	0.98	-48.20	2370	-2489	-2479	S	--	M	XG	0.00	-48.20	0.98	-48.20
2370	-2479	-2472	S	--	M	XG	0.00	-48.20	0.98	-48.20	2370	-2472	-2459	S	--	M	XG	0.00	-48.20	0.98	-48.20
2370	-2459	-2433	S	--	M	XG	0.00	-48.20	0.98	-48.20	2370	-2433	-2428	S	--	M	XG	0.00	-48.20	0.98	-48.20
2370	-2428	-2420	S	--	M	XG	0.00	-48.20	0.98	-48.20	2370	-2420	-2417	S	--	M	XG	0.00	-48.20	0.98	-48.20
2687	-2417	-2422	S	--	M	XG	0.00	-48.20	0.98	-48.20	2687	-2422	-2430	S	--	M	XG	0.00	-48.20	0.98	-48.20
2687	-2430	-2435	S	--	M	XG	0.00	-48.20	0.98	-48.20	2687	-2435	-2461	S	--	M	XG	0.00	-48.20	0.98	-48.20
2687	-2461	-2474	S	--	M	XG	0.00	-48.20	0.98	-48.20	2687	-2474	-2481	S	--	M	XG	0.00	-48.20	0.98	-48.20
2687	-2481	-2491	S	--	M	XG	0.00	-48.20	0.98	-48.20	2687	-2491	-2529	S	--	M	XG	0.00	-48.20	0.98	-48.20
2687	-2529	2312	S	--	M	XG	0.00	-48.20	0.98	-48.20	2702	-2418	-2423	S	--	M	XG	0.00	-48.20	0.98	-48.20
2702	-2423	-2431	S	--	M	XG	0.00	-48.20	0.98	-48.20	2702	-2431	-2436	S	--	M	XG	0.00	-48.20	0.98	-48.20
2702	-2436	-2462	S	--	M	XG	0.00	-48.20	0.98	-48.20	2702	-2462	-2475	S	--	M	XG	0.00	-48.20	0.98	-48.20
2702	-2475	-2482	S	--	M	XG	0.00	-48.20	0.98	-48.20	2702	-2482	-2492	S	--	M	XG	0.00	-48.20	0.98	-48.20
2702	-2492	-2530	S	--	M	XG	0.00	-48.20	0.98	-48.20	2702	-2530	2313	S	--	M	XG	0.00	-48.20	0.98	-48.20
4354	-10277	-10338	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-10338	-10416	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-10416	-10486	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-10486	-10581	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-10581	-10681	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-10681	-10772	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-10772	-10837	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-10837	-10912	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-10912	-10979	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-10979	-11060	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11060	-11122	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11122	-11188	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11188	-11254	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11254	-11326	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11326	-11392	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11392	-11462	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11462	-11532	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11532	-11602	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11602	-11676	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11676	-11740	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11740	-11806	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11806	-11861	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-11861	-11994	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-11994	-12095	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12095	-12143	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12143	-12222	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12222	-12294	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12294	-12362	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12362	-12428	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12428	-12508	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12508	-12592	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12592	-12666	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12666	-12737	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12737	-12807	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12807	-12877	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-12877	-12954	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-12954	-13038	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13038	-13105	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13105	-13183	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13183	-13246	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13246	-13315	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13315	-13382	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13382	-13454	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13454	-13524	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13524	-13590	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13590	-13656	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13656	-13722	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13722	-13788	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13788	-13854	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13854	-13922	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-13922	-13992	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-13992	-14057	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-14057	-14127	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-14127	-14193	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-14193	-14259	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-14259	-14325	S	--	M	XG	0.00	-48.20	0.10	-48.20
4354	-14325	-14391	S	--	M	XG	0.00	-48.20	0.10	-48.20	4354	-14391	-14457	S	--	M	XG	0.00	-48.20	0.10	-48.20

























4360	-15190	-15122	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-15122	-15056	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-15056	-14990	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14990	-14924	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14924	-14858	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14858	-14792	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14792	-14726	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14726	-14660	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14660	-14592	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14592	-14522	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14522	-14456	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14456	-14390	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14390	-14324	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14324	-14258	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14258	-14192	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14192	-14126	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-14126	-14056	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-14056	-13991	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13991	-13921	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13921	-13853	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13853	-13787	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13787	-13721	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13721	-13655	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13655	-13589	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13589	-13523	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13523	-13453	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13453	-13381	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13381	-13314	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13314	-13245	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13245	-13182	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13182	-13104	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-13104	-13037	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-13037	-12953	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12953	-12876	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12876	-12806	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12806	-12736	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12736	-12665	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12665	-12591	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12591	-12507	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12507	-12427	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12427	-12361	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12361	-12293	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12293	-12221	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12221	-12156	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-12156	-12059	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-12059	-11966	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11966	-11875	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11875	-11805	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11805	-11739	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11739	-11675	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11675	-11601	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11601	-11531	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11531	-11461	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11461	-11391	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11391	-11325	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11325	-11253	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11253	-11187	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11187	-11121	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-11121	-11059	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-11059	-10978	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-10978	-10911	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-10911	-10836	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-10836	-10771	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-10771	-10680	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-10680	-10580	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-10580	-10485	S	--	MZG	0.00	-18.64	0.10	-18.64
4360	-10485	-10415	S	--	MZG	0.00	-18.64	0.10	-18.64	4360	-10415	-10337	S	--	MZG	0.00	-18.64	0.10	-18.64

**Elenco peso proprio elementi bidimensionali**

**Simbologia**

Tb = Numero del tipo muro/elemento bidimensionale  
 Comm. = Commento  
 Spess. = Spessore  
 Mat. = Materiale  
 P = Peso specifico  
 PQ = Peso specifico per unità di superficie

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
24	Lamiera acciaio sp. 5 mm	0.50	Acciaio	7850.00	39.25
25	Lamiera acciaio sp. 6 mm	0.60	Acciaio	7850.00	47.10
26	Parete tubo campata centrale - sp. 8 mm	0.80	Acciaio	7850.00	62.80
28	Lamiera sp. 4.0 mm + Leca cls1600 sp. 50 mm (t = 0)	0.81	Acciaio	7850.00	63.90
34	Lamiera ali a sbalzo sp. 4 mm	0.40	Acciaio	7850.00	31.40
35	Lamiera nervature interne sp. 4 mm	0.40	Acciaio	7850.00	31.40
36	Parete tubo acciaio sp. 8 mm + Leca cls1600 sp.50 mm (t=0)	1.21	Acciaio	7850.00	95.30

**Elenco carichi elementi bidimensionali**

**Condizione di carico n. 2: Permanenti G1**

**Carichi uniformi**

**Simbologia**

Bid. = Numero del muro/elemento bidimensionale  
 N1 = Nodo1  
 N2 = Nodo2  
 N3 = Nodo3  
 N4 = Nodo4  
 T = Tipo di carico  
 PP = Peso proprio  
 VE = Vento  
 M = Manuale  
 DC = Direzione del carico  
 G = secondo gli assi globali  
 L = secondo gli assi locali  
 Qx = Carico in dir. X  
 Qy = Carico in dir. Y  
 Qz = Carico in dir. Z

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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3584	-15772	-15838	-15837	-15771	MG	0.00	0.00	110.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	110.00
3584	-15178	-15245	-15244	-15177	MG	0.00	0.00	110.00
3584	-15245	-15311	-15310	-15244	MG	0.00	0.00	110.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	110.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	110.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	110.00
3584	-15044	-15113	-15112	-15043	MG	0.00	0.00	110.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	110.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	110.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	110.00
3584	-14647	-14713	-14712	-14646	MG	0.00	0.00	110.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	110.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	110.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	110.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	110.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	110.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	110.00
3584	-14179	-14245	-14244	-14178	MG	0.00	0.00	110.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	110.00
3584	-14978	-15044	-15043	-14977	MG	0.00	0.00	110.00
3584	-13441	-13511	-13510	-13440	MG	0.00	0.00	110.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	110.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	110.00
3584	-16302	-16368	-16367	-16301	MG	0.00	0.00	110.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	110.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	110.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	110.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	110.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	110.00
3584	-15905	-15971	-15970	-15904	MG	0.00	0.00	110.00
3584	-13775	-13841	-13840	-13774	MG	0.00	0.00	110.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	110.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	110.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	110.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	110.00
3584	-14714	-14780	-14779	-14713	MG	0.00	0.00	110.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	110.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	110.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	110.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	110.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	110.00
3584	-12863	-12941	-12940	-12862	MG	0.00	0.00	110.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	110.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	110.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	110.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	110.00
3584	-14911	-14977	-14976	-14910	MG	0.00	0.00	110.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	110.00
3584	-14846	-14912	-14911	-14845	MG	0.00	0.00	110.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	110.00
3584	-14845	-14911	-14910	-14844	MG	0.00	0.00	110.00
3584	-15043	-15112	-15111	-15042	MG	0.00	0.00	110.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	110.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	110.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	110.00
3584	-14245	-14311	-14310	-14244	MG	0.00	0.00	110.00
3584	-15244	-15310	-15309	-15243	MG	0.00	0.00	110.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	110.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	110.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	110.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	110.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	110.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	110.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	110.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	110.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	110.00
3584	-14580	-14648	-14647	-14579	MG	0.00	0.00	110.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	110.00
3584	-15839	-15906	-15905	-15838	MG	0.00	0.00	110.00
3584	-11933	-12058	-12051	-11932	MG	0.00	0.00	110.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	110.00
3584	-16235	-16301	-16300	-16234	MG	0.00	0.00	110.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	110.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	110.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	110.00
3584	-15640	-15706	-15705	-15639	MG	0.00	0.00	110.00
3584	-14780	-14846	-14845	-14779	MG	0.00	0.00	110.00
3584	-11792	-11854	-11853	-11791	MG	0.00	0.00	110.00



3584	-11854	-11932	-11991	-11853	MG	0.00	0.00	110.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	110.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	110.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	110.00
3584	-14114	-14180	-14179	-14113	MG	0.00	0.00	110.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	110.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	110.00
3584	-14312	-14378	-14377	-14311	MG	0.00	0.00	110.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	110.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	110.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	110.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	110.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	110.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	110.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	110.00
3584	-15177	-15244	-15243	-15176	MG	0.00	0.00	110.00
3584	-14509	-14579	-14578	-14508	MG	0.00	0.00	110.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	110.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	110.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	110.00
3584	-16236	-16302	-16301	-16235	MG	0.00	0.00	110.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	110.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	110.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	110.00
3584	-12348	-12414	-12413	-12347	MG	0.00	0.00	110.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	110.00
3584	-10965	-11053	-11036	-10964	MG	0.00	0.00	110.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	110.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	110.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	110.00
3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	110.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	110.00
3584	-12349	-12415	-12414	-12348	MG	0.00	0.00	110.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	110.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	110.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	110.00
3584	-12793	-12863	-12862	-12792	MG	0.00	0.00	110.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	110.00
3584	-15977	-15976	-15910	-15911	MG	0.00	0.00	110.00
3584	-13511	-13577	-13576	-13510	MG	0.00	0.00	110.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	110.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	110.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	110.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	110.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	110.00
3584	-13909	-13979	-13978	-13908	MG	0.00	0.00	110.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	110.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	110.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	110.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	110.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	110.00
3584	-11656	-11727	-11726	-11655	MG	0.00	0.00	110.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	110.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	110.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	110.00
3584	-11240	-11312	-11311	-11239	MG	0.00	0.00	110.00
3584	-10403	-10472	-10471	-10402	MG	0.00	0.00	110.00
3584	-10472	-10616	-10538	-10471	MG	0.00	0.00	110.00
3584	-11448	-11518	-11517	-11447	MG	0.00	0.00	110.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	110.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	110.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	110.00
3584	-10902	-10965	-10964	-10901	MG	0.00	0.00	110.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	110.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	110.00
3584	-10962	-10963	-10900	-10899	MG	0.00	0.00	110.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	110.00
3584	-16040	-16039	-15973	-15974	MG	0.00	0.00	110.00
3584	-12209	-12281	-12280	-12208	MG	0.00	0.00	110.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	110.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	110.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	110.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	110.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	110.00
3584	-10836	-10835	-10770	-10771	MG	0.00	0.00	110.00
3584	-15174	-15175	-15110	-15109	MG	0.00	0.00	110.00
3584	-15040	-15041	-14975	-14974	MG	0.00	0.00	110.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	110.00
3584	-14776	-14777	-14711	-14710	MG	0.00	0.00	110.00

3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	110.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	110.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	110.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	110.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	110.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	110.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	110.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	110.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	110.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	110.00
3584	-16310	-16309	-16243	-16244	MG	0.00	0.00	110.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	110.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	110.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	110.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	110.00
3584	-16049	-16048	-15982	-15983	MG	0.00	0.00	110.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	110.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	110.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	110.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	110.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	110.00
3584	-12411	-12412	-12346	-12345	MG	0.00	0.00	110.00
3584	-16566	-16599	-16598	-16565	MG	0.00	0.00	110.00
3584	-11053	-11108	-11107	-11036	MG	0.00	0.00	110.00
3584	-11990	-11959	-11852	-11895	MG	0.00	0.00	110.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	110.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	110.00
3584	-12806	-12805	-12735	-12736	MG	0.00	0.00	110.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	110.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	110.00
3584	-16433	-16499	-16498	-16432	MG	0.00	0.00	110.00
3584	-16181	-16180	-16114	-16115	MG	0.00	0.00	110.00
3584	-12801	-12800	-12730	-12731	MG	0.00	0.00	110.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	110.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	110.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	110.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	110.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	110.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	110.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	110.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	110.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	110.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	110.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	110.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	110.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	110.00
3584	-12728	-12727	-12656	-12657	MG	0.00	0.00	110.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	110.00
3584	-13774	-13840	-13839	-13773	MG	0.00	0.00	110.00
3584	-13840	-13908	-13907	-13839	MG	0.00	0.00	110.00
3584	-11657	-11656	-11589	-11590	MG	0.00	0.00	110.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	110.00
3584	-12663	-12662	-12588	-12589	MG	0.00	0.00	110.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	110.00
3584	-15443	-15509	-15508	-15442	MG	0.00	0.00	110.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	110.00
3584	-16500	-16566	-16565	-16499	MG	0.00	0.00	110.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	110.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	110.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	110.00
3584	-12655	-12654	-12580	-12581	MG	0.00	0.00	110.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	110.00
3584	-10669	-10653	-10545	-10564	MG	0.00	0.00	110.00
3584	-10469	-10470	-10401	-10400	MG	0.00	0.00	110.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	110.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	110.00
3584	-12282	-12281	-12209	-12210	MG	0.00	0.00	110.00
3584	-12210	-12209	-12182	-12183	MG	0.00	0.00	110.00
3584	-12183	-12182	-12058	-12032	MG	0.00	0.00	110.00
3584	-12032	-12058	-11933	-11960	MG	0.00	0.00	110.00
3584	-11960	-11933	-11855	-11856	MG	0.00	0.00	110.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	110.00
3584	-12581	-12580	-12496	-12497	MG	0.00	0.00	110.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	110.00
3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	110.00
3584	-16496	-16497	-16431	-16430	MG	0.00	0.00	110.00
3584	-16364	-16365	-16299	-16298	MG	0.00	0.00	110.00
3584	-16232	-16233	-16167	-16166	MG	0.00	0.00	110.00
3584	-16100	-16101	-16035	-16034	MG	0.00	0.00	110.00

3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	110.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	110.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	110.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	110.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	110.00
3584	-12418	-12417	-12351	-12352	MG	0.00	0.00	110.00
3584	-12352	-12351	-12283	-12284	MG	0.00	0.00	110.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	110.00
3584	-12212	-12211	-12106	-12151	MG	0.00	0.00	110.00
3584	-12151	-12106	-12033	-12088	MG	0.00	0.00	110.00
3584	-12088	-12033	-11934	-11935	MG	0.00	0.00	110.00
3584	-11935	-11934	-11896	-11857	MG	0.00	0.00	110.00
3584	-11857	-11896	-11795	-11796	MG	0.00	0.00	110.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	110.00
3584	-12499	-12498	-12418	-12419	MG	0.00	0.00	110.00
3584	-10824	-10902	-10901	-10823	MG	0.00	0.00	110.00
3584	-12353	-12352	-12284	-12285	MG	0.00	0.00	110.00
3584	-12285	-12284	-12212	-12213	MG	0.00	0.00	110.00
3584	-12213	-12212	-12151	-12107	MG	0.00	0.00	110.00
3584	-12107	-12151	-12088	-12089	MG	0.00	0.00	110.00
3584	-12089	-12088	-11935	-11961	MG	0.00	0.00	110.00
3584	-11961	-11935	-11857	-11897	MG	0.00	0.00	110.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	110.00
3584	-12584	-12583	-12499	-12500	MG	0.00	0.00	110.00
3584	-12500	-12499	-12419	-12420	MG	0.00	0.00	110.00
3584	-12420	-12419	-12353	-12354	MG	0.00	0.00	110.00
3584	-12354	-12353	-12285	-12286	MG	0.00	0.00	110.00
3584	-12286	-12285	-12213	-12214	MG	0.00	0.00	110.00
3584	-12214	-12213	-12107	-12152	MG	0.00	0.00	110.00
3584	-12152	-12107	-12089	-12090	MG	0.00	0.00	110.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	110.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	110.00
3584	-11858	-11897	-11797	-11798	MG	0.00	0.00	110.00
3584	-12585	-12584	-12500	-12501	MG	0.00	0.00	110.00
3584	-12501	-12500	-12420	-12421	MG	0.00	0.00	110.00
3584	-12421	-12420	-12354	-12355	MG	0.00	0.00	110.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	110.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	110.00
3584	-12215	-12214	-12152	-12118	MG	0.00	0.00	110.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	110.00
3584	-13440	-13510	-13509	-13439	MG	0.00	0.00	110.00
3584	-11936	-11962	-11858	-11871	MG	0.00	0.00	110.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	110.00
3584	-12727	-12726	-12655	-12656	MG	0.00	0.00	110.00
3584	-12502	-12501	-12421	-12422	MG	0.00	0.00	110.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	110.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	110.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	110.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	110.00
3584	-11378	-11448	-11447	-11377	MG	0.00	0.00	110.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	110.00
3584	-15835	-15836	-15770	-15769	MG	0.00	0.00	110.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	110.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	110.00
3584	-15439	-15440	-15374	-15373	MG	0.00	0.00	110.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	110.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	110.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	110.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	110.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	110.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	110.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	110.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	110.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	110.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	110.00
3584	-14644	-14645	-14577	-14576	MG	0.00	0.00	110.00
3584	-15307	-15308	-15242	-15241	MG	0.00	0.00	110.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	110.00
3584	-14242	-14243	-14177	-14176	MG	0.00	0.00	110.00
3584	-14908	-14909	-14843	-14842	MG	0.00	0.00	110.00
3584	-11789	-11790	-11724	-11723	MG	0.00	0.00	110.00
3584	-11652	-11653	-11586	-11585	MG	0.00	0.00	110.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	110.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	110.00
3584	-11237	-11238	-11172	-11171	MG	0.00	0.00	110.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	110.00
3584	-13161	-13162	-13094	-13093	MG	0.00	0.00	110.00
3584	-13021	-13022	-12939	-12938	MG	0.00	0.00	110.00
3584	-12860	-12861	-12791	-12790	MG	0.00	0.00	110.00

3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	110.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	110.00
3584	-13975	-13976	-13906	-13905	MG	0.00	0.00	110.00
3584	-13837	-13838	-13772	-13771	MG	0.00	0.00	110.00
3584	-13705	-13706	-13640	-13639	MG	0.00	0.00	110.00
3584	-13573	-13574	-13508	-13507	MG	0.00	0.00	110.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	110.00
3584	-11732	-11731	-11659	-11671	MG	0.00	0.00	110.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	110.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	110.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	110.00
3584	-12419	-12418	-12352	-12353	MG	0.00	0.00	110.00
3584	-12575	-12576	-12493	-12492	MG	0.00	0.00	110.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	110.00
3584	-12277	-12278	-12206	-12205	MG	0.00	0.00	110.00
3584	-12105	-12168	-12017	-12086	MG	0.00	0.00	110.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	110.00
3584	-16103	-16169	-16168	-16102	MG	0.00	0.00	110.00
3584	-12865	-12864	-12794	-12795	MG	0.00	0.00	110.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	110.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	110.00
3584	-12804	-12803	-12733	-12734	MG	0.00	0.00	110.00
3584	-12803	-12802	-12732	-12733	MG	0.00	0.00	110.00
3584	-12802	-12801	-12731	-12732	MG	0.00	0.00	110.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	110.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	110.00
3584	-10967	-10966	-10890	-10903	MG	0.00	0.00	110.00
3584	-12941	-13024	-13023	-12940	MG	0.00	0.00	110.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	110.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	110.00
3584	-10672	-10671	-10576	-10565	MG	0.00	0.00	110.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	110.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	110.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	110.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	110.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	110.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	110.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	110.00
3584	-11519	-11589	-11588	-11518	MG	0.00	0.00	110.00
3584	-11589	-11656	-11655	-11588	MG	0.00	0.00	110.00
3584	-10673	-10672	-10565	-10577	MG	0.00	0.00	110.00
3584	-10577	-10565	-10474	-10475	MG	0.00	0.00	110.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	110.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	110.00
3584	-11112	-11111	-11045	-11046	MG	0.00	0.00	110.00
3584	-11312	-11378	-11377	-11311	MG	0.00	0.00	110.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	110.00
3584	-10905	-10904	-10827	-10828	MG	0.00	0.00	110.00
3584	-11518	-11588	-11587	-11517	MG	0.00	0.00	110.00
3584	-15575	-15641	-15640	-15574	MG	0.00	0.00	110.00
3584	-10674	-10673	-10577	-10539	MG	0.00	0.00	110.00
3584	-11726	-11792	-11791	-11725	MG	0.00	0.00	110.00
3584	-11793	-11855	-11854	-11792	MG	0.00	0.00	110.00
3584	-11855	-11933	-11932	-11854	MG	0.00	0.00	110.00
3584	-11113	-11112	-11046	-11047	MG	0.00	0.00	110.00
3584	-15310	-15376	-15375	-15309	MG	0.00	0.00	110.00
3584	-12182	-12209	-12208	-12141	MG	0.00	0.00	110.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	110.00
3584	-10829	-10828	-10762	-10763	MG	0.00	0.00	110.00
3584	-10763	-10762	-10674	-10675	MG	0.00	0.00	110.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	110.00
3584	-12524	-12579	-12578	-12495	MG	0.00	0.00	110.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	110.00
3584	-10408	-10407	-10354	-10355	MG	0.00	0.00	110.00
3584	-11856	-11855	-11793	-11794	MG	0.00	0.00	110.00
3584	-11037	-11047	-10970	-10971	MG	0.00	0.00	110.00
3584	-12497	-12496	-12416	-12417	MG	0.00	0.00	110.00
3584	-16595	-16596	-16563	-16562	MG	0.00	0.00	110.00
3584	-10830	-10829	-10763	-10764	MG	0.00	0.00	110.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	110.00
3584	-12414	-12495	-12494	-12413	MG	0.00	0.00	110.00
3584	-12495	-12578	-12577	-12494	MG	0.00	0.00	110.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	110.00
3584	-10434	-10408	-10355	-10331	MG	0.00	0.00	110.00
3584	-11115	-11114	-11037	-11048	MG	0.00	0.00	110.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	110.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	110.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	110.00
3584	-10852	-10830	-10764	-10765	MG	0.00	0.00	110.00

3584	-12284	-12283	-12211	-12212	MG	0.00	0.00	110.00
3584	-10677	-10676	-10566	-10550	MG	0.00	0.00	110.00
3584	-16307	-16306	-16240	-16241	MG	0.00	0.00	110.00
3584	-10329	-10403	-10402	-10352	MG	0.00	0.00	110.00
3584	-10409	-10434	-10331	-10332	MG	0.00	0.00	110.00
3584	-16304	-16303	-16237	-16238	MG	0.00	0.00	110.00
3584	-12583	-12582	-12498	-12499	MG	0.00	0.00	110.00
3584	-10973	-10972	-10907	-10908	MG	0.00	0.00	110.00
3584	-16247	-16246	-16180	-16181	MG	0.00	0.00	110.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	110.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	110.00
3584	-16244	-16243	-16177	-16178	MG	0.00	0.00	110.00
3584	-10567	-10550	-10479	-10480	MG	0.00	0.00	110.00
3584	-10480	-10479	-10409	-10410	MG	0.00	0.00	110.00
3584	-16241	-16240	-16174	-16175	MG	0.00	0.00	110.00
3584	-11897	-11857	-11796	-11797	MG	0.00	0.00	110.00
3584	-11055	-11049	-10973	-10974	MG	0.00	0.00	110.00
3584	-16238	-16237	-16171	-16172	MG	0.00	0.00	110.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	110.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	110.00
3584	-10767	-10766	-10654	-10678	MG	0.00	0.00	110.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	110.00
3584	-10630	-10567	-10480	-10481	MG	0.00	0.00	110.00
3584	-16178	-16177	-16111	-16112	MG	0.00	0.00	110.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	110.00
3584	-11118	-11117	-11055	-11056	MG	0.00	0.00	110.00
3584	-16175	-16174	-16108	-16109	MG	0.00	0.00	110.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	110.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	110.00
3584	-16172	-16171	-16105	-16106	MG	0.00	0.00	110.00
3584	-10768	-10767	-10678	-10691	MG	0.00	0.00	110.00
3584	-10691	-10678	-10630	-10578	MG	0.00	0.00	110.00
3584	-16115	-16114	-16048	-16049	MG	0.00	0.00	110.00
3584	-11105	-11106	-11035	-11034	MG	0.00	0.00	110.00
3584	-10412	-10411	-10356	-10334	MG	0.00	0.00	110.00
3584	-16112	-16111	-16045	-16046	MG	0.00	0.00	110.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	110.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	110.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	110.00
3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	110.00
3584	-10769	-10768	-10691	-10692	MG	0.00	0.00	110.00
3584	-16106	-16105	-16039	-16040	MG	0.00	0.00	110.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	110.00
3584	-15968	-15969	-15903	-15902	MG	0.00	0.00	110.00
3584	-10413	-10412	-10334	-10335	MG	0.00	0.00	110.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	110.00
3584	-15571	-15572	-15506	-15505	MG	0.00	0.00	110.00
3584	-16046	-16045	-15979	-15980	MG	0.00	0.00	110.00
3584	-10917	-10910	-10834	-10835	MG	0.00	0.00	110.00
3584	-10835	-10834	-10769	-10770	MG	0.00	0.00	110.00
3584	-16043	-16042	-15976	-15977	MG	0.00	0.00	110.00
3584	-10821	-10822	-10756	-10755	MG	0.00	0.00	110.00
3584	-16041	-16040	-15974	-15975	MG	0.00	0.00	110.00
3584	-10484	-10483	-10413	-10414	MG	0.00	0.00	110.00
3584	-16039	-16038	-15972	-15973	MG	0.00	0.00	110.00
3584	-11121	-11120	-11058	-11059	MG	0.00	0.00	110.00
3584	-11059	-11058	-10977	-10978	MG	0.00	0.00	110.00
3584	-10978	-10977	-10917	-10911	MG	0.00	0.00	110.00
3584	-10911	-10917	-10835	-10836	MG	0.00	0.00	110.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	110.00
3584	-10771	-10770	-10679	-10680	MG	0.00	0.00	110.00
3584	-14912	-14978	-14977	-14911	MG	0.00	0.00	110.00
3584	-10580	-10568	-10484	-10485	MG	0.00	0.00	110.00
3584	-10485	-10484	-10414	-10415	MG	0.00	0.00	110.00
3584	-15113	-15178	-15177	-15112	MG	0.00	0.00	110.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	110.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	110.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	110.00
3584	-14713	-14779	-14778	-14712	MG	0.00	0.00	110.00
3584	-14779	-14845	-14844	-14778	MG	0.00	0.00	110.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	110.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	110.00
3584	-14977	-15043	-15042	-14976	MG	0.00	0.00	110.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	110.00
3584	-15112	-15177	-15176	-15111	MG	0.00	0.00	110.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	110.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	110.00
3584	-15972	-16038	-16037	-15971	MG	0.00	0.00	110.00
3584	-13437	-13438	-13366	-13365	MG	0.00	0.00	110.00

3584	-16104	-16170	-16169	-16103	MG	0.00	0.00	110.00
3584	-16170	-16236	-16235	-16169	MG	0.00	0.00	110.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	110.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	110.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	110.00
3584	-16434	-16500	-16499	-16433	MG	0.00	0.00	110.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	110.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	110.00
3584	-15971	-16037	-16036	-15970	MG	0.00	0.00	110.00
3584	-16037	-16103	-16102	-16036	MG	0.00	0.00	110.00
3584	-12866	-12865	-12795	-12796	MG	0.00	0.00	110.00
3584	-16169	-16235	-16234	-16168	MG	0.00	0.00	110.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	110.00
3584	-12805	-12804	-12734	-12735	MG	0.00	0.00	110.00
3584	-16367	-16433	-16432	-16366	MG	0.00	0.00	110.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	110.00
3584	-16499	-16565	-16564	-16498	MG	0.00	0.00	110.00
3584	-16565	-16598	-16597	-16564	MG	0.00	0.00	110.00
3584	-13302	-13369	-13368	-13301	MG	0.00	0.00	110.00
3584	-13369	-13441	-13440	-13368	MG	0.00	0.00	110.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	110.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	110.00
3584	-13577	-13643	-13642	-13576	MG	0.00	0.00	110.00
3584	-13643	-13709	-13708	-13642	MG	0.00	0.00	110.00
3584	-13709	-13775	-13774	-13708	MG	0.00	0.00	110.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	110.00
3584	-13841	-13909	-13908	-13840	MG	0.00	0.00	110.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	110.00
3584	-13301	-13368	-13367	-13300	MG	0.00	0.00	110.00
3584	-13368	-13440	-13439	-13367	MG	0.00	0.00	110.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	110.00
3584	-13510	-13576	-13575	-13509	MG	0.00	0.00	110.00
3584	-13576	-13642	-13641	-13575	MG	0.00	0.00	110.00
3584	-13642	-13708	-13707	-13641	MG	0.00	0.00	110.00
3584	-13708	-13774	-13773	-13707	MG	0.00	0.00	110.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	110.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	110.00
3584	-13908	-13978	-13977	-13907	MG	0.00	0.00	110.00
3584	-15311	-15377	-15376	-15310	MG	0.00	0.00	110.00
3584	-15377	-15443	-15442	-15376	MG	0.00	0.00	110.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	110.00
3584	-15509	-15575	-15574	-15508	MG	0.00	0.00	110.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	110.00
3584	-15641	-15707	-15706	-15640	MG	0.00	0.00	110.00
3584	-15707	-15773	-15772	-15706	MG	0.00	0.00	110.00
3584	-15773	-15839	-15838	-15772	MG	0.00	0.00	110.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	110.00
3584	-15906	-15972	-15971	-15905	MG	0.00	0.00	110.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	110.00
3584	-15376	-15442	-15441	-15375	MG	0.00	0.00	110.00
3584	-15442	-15508	-15507	-15441	MG	0.00	0.00	110.00
3584	-15508	-15574	-15573	-15507	MG	0.00	0.00	110.00
3584	-15574	-15640	-15639	-15573	MG	0.00	0.00	110.00
3584	-15825	-15892	-15891	-15824	MG	0.00	0.00	110.00
3584	-15706	-15772	-15771	-15705	MG	0.00	0.00	110.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	110.00
3584	-15838	-15905	-15904	-15837	MG	0.00	0.00	110.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	110.00
3584	-13979	-14069	-14045	-13978	MG	0.00	0.00	110.00
3584	-14069	-14114	-14113	-14045	MG	0.00	0.00	110.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	110.00
3584	-14180	-14246	-14245	-14179	MG	0.00	0.00	110.00
3584	-14246	-14312	-14311	-14245	MG	0.00	0.00	110.00
3584	-15824	-15891	-15890	-15823	MG	0.00	0.00	110.00
3584	-14378	-14444	-14443	-14377	MG	0.00	0.00	110.00
3584	-14444	-14510	-14509	-14443	MG	0.00	0.00	110.00
3584	-14510	-14580	-14579	-14509	MG	0.00	0.00	110.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	110.00
3584	-13978	-14045	-14044	-13977	MG	0.00	0.00	110.00
3584	-14045	-14113	-14112	-14044	MG	0.00	0.00	110.00
3584	-14113	-14179	-14178	-14112	MG	0.00	0.00	110.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	110.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	110.00
3584	-14311	-14377	-14376	-14310	MG	0.00	0.00	110.00
3584	-14377	-14443	-14442	-14376	MG	0.00	0.00	110.00
3584	-14443	-14509	-14508	-14442	MG	0.00	0.00	110.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	110.00
3584	-14579	-14647	-14646	-14578	MG	0.00	0.00	110.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	110.00

3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	110.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	110.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	110.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	110.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	110.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	110.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	110.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	110.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	110.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	110.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	110.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	110.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	110.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	110.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	110.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	110.00
3584	-12090	-12089	-11961	-11962	MG	0.00	0.00	110.00
3584	-11962	-11961	-11897	-11858	MG	0.00	0.00	110.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	110.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	110.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	110.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	110.00
3584	-12355	-12354	-12286	-12287	MG	0.00	0.00	110.00
3584	-12287	-12286	-12214	-12215	MG	0.00	0.00	110.00
3584	-16468	-16467	-16533	-16534	MG	0.00	0.00	110.00
3584	-12118	-12152	-12090	-12091	MG	0.00	0.00	110.00
3584	-12091	-12090	-11962	-11936	MG	0.00	0.00	110.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	110.00
3584	-11871	-11858	-11798	-11799	MG	0.00	0.00	110.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	110.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	110.00
3584	-16109	-16108	-16042	-16043	MG	0.00	0.00	110.00
3584	-10834	-10833	-10768	-10769	MG	0.00	0.00	110.00
3584	-16403	-16402	-16468	-16469	MG	0.00	0.00	110.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	110.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	110.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	110.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	110.00
3584	-15703	-15704	-15638	-15637	MG	0.00	0.00	110.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	110.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	110.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	110.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	110.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	110.00
3584	-16536	-16535	-16601	-16602	MG	0.00	0.00	110.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	110.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	110.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	110.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	110.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	110.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	110.00
3584	-14506	-14507	-14441	-14440	MG	0.00	0.00	110.00
3584	-14374	-14375	-14309	-14308	MG	0.00	0.00	110.00
3584	-16471	-16470	-16536	-16537	MG	0.00	0.00	110.00
3584	-14110	-14111	-14043	-14042	MG	0.00	0.00	110.00
3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	110.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	110.00
3584	-11515	-11516	-11446	-11445	MG	0.00	0.00	110.00
3584	-11375	-11376	-11310	-11309	MG	0.00	0.00	110.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	110.00
3584	-13298	-13299	-13230	-13229	MG	0.00	0.00	110.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	110.00
3584	-16406	-16405	-16471	-16472	MG	0.00	0.00	110.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	110.00
3584	-12720	-12721	-12650	-12649	MG	0.00	0.00	110.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	110.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	110.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	110.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	110.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	110.00
3584	-16038	-16104	-16103	-16037	MG	0.00	0.00	110.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	110.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	110.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	110.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	110.00
3584	-16368	-16434	-16433	-16367	MG	0.00	0.00	110.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	110.00
3584	-12653	-12724	-12723	-12652	MG	0.00	0.00	110.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	110.00

3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	110.00
3584	-12864	-12942	-12941	-12863	MG	0.00	0.00	110.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	110.00
3584	-13025	-13095	-13125	-13024	MG	0.00	0.00	110.00
3584	-13095	-13164	-13163	-13125	MG	0.00	0.00	110.00
3584	-16301	-16367	-16366	-16300	MG	0.00	0.00	110.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	110.00
3584	-11966	-11993	-11874	-11875	MG	0.00	0.00	110.00
3584	-11875	-11874	-11804	-11805	MG	0.00	0.00	110.00
3584	-10470	-10471	-10402	-10401	MG	0.00	0.00	110.00
3584	-10400	-10401	-10328	-10327	MG	0.00	0.00	110.00
3584	-10401	-10402	-10352	-10328	MG	0.00	0.00	110.00
3584	-10653	-10670	-10538	-10545	MG	0.00	0.00	110.00
3584	-10564	-10545	-10470	-10469	MG	0.00	0.00	110.00
3584	-10545	-10538	-10471	-10470	MG	0.00	0.00	110.00
3584	-10822	-10823	-10757	-10756	MG	0.00	0.00	110.00
3584	-10755	-10756	-10653	-10669	MG	0.00	0.00	110.00
3584	-10756	-10757	-10670	-10653	MG	0.00	0.00	110.00
3584	-10963	-10964	-10901	-10900	MG	0.00	0.00	110.00
3584	-10899	-10900	-10822	-10821	MG	0.00	0.00	110.00
3584	-10900	-10901	-10823	-10822	MG	0.00	0.00	110.00
3584	-11106	-11107	-11036	-11035	MG	0.00	0.00	110.00
3584	-11034	-11035	-10963	-10962	MG	0.00	0.00	110.00
3584	-11035	-11036	-10964	-10963	MG	0.00	0.00	110.00
3584	-11238	-11239	-11173	-11172	MG	0.00	0.00	110.00
3584	-11171	-11172	-11106	-11105	MG	0.00	0.00	110.00
3584	-11172	-11173	-11107	-11106	MG	0.00	0.00	110.00
3584	-11376	-11377	-11311	-11310	MG	0.00	0.00	110.00
3584	-11309	-11310	-11238	-11237	MG	0.00	0.00	110.00
3584	-11310	-11311	-11239	-11238	MG	0.00	0.00	110.00
3584	-11516	-11517	-11447	-11446	MG	0.00	0.00	110.00
3584	-11445	-11446	-11376	-11375	MG	0.00	0.00	110.00
3584	-11446	-11447	-11377	-11376	MG	0.00	0.00	110.00
3584	-11653	-11654	-11587	-11586	MG	0.00	0.00	110.00
3584	-11585	-11586	-11516	-11515	MG	0.00	0.00	110.00
3584	-11586	-11587	-11517	-11516	MG	0.00	0.00	110.00
3584	-11790	-11791	-11725	-11724	MG	0.00	0.00	110.00
3584	-11723	-11724	-11653	-11652	MG	0.00	0.00	110.00
3584	-11724	-11725	-11654	-11653	MG	0.00	0.00	110.00
3584	-11959	-11991	-11853	-11852	MG	0.00	0.00	110.00
3584	-11895	-11852	-11790	-11789	MG	0.00	0.00	110.00
3584	-11852	-11853	-11791	-11790	MG	0.00	0.00	110.00
3584	-12168	-12169	-12087	-12017	MG	0.00	0.00	110.00
3584	-12086	-12017	-11959	-11990	MG	0.00	0.00	110.00
3584	-12017	-12087	-11991	-11959	MG	0.00	0.00	110.00
3584	-12278	-12279	-12207	-12206	MG	0.00	0.00	110.00
3584	-12205	-12206	-12168	-12105	MG	0.00	0.00	110.00
3584	-12206	-12207	-12169	-12168	MG	0.00	0.00	110.00
3584	-12412	-12413	-12347	-12346	MG	0.00	0.00	110.00
3584	-12345	-12346	-12278	-12277	MG	0.00	0.00	110.00
3584	-12346	-12347	-12279	-12278	MG	0.00	0.00	110.00
3584	-12576	-12577	-12494	-12493	MG	0.00	0.00	110.00
3584	-12492	-12493	-12412	-12411	MG	0.00	0.00	110.00
3584	-12493	-12494	-12413	-12412	MG	0.00	0.00	110.00
3584	-12721	-12722	-12651	-12650	MG	0.00	0.00	110.00
3584	-12649	-12650	-12576	-12575	MG	0.00	0.00	110.00
3584	-12650	-12651	-12577	-12576	MG	0.00	0.00	110.00
3584	-12861	-12862	-12792	-12791	MG	0.00	0.00	110.00
3584	-12790	-12791	-12721	-12720	MG	0.00	0.00	110.00
3584	-12791	-12792	-12722	-12721	MG	0.00	0.00	110.00
3584	-13022	-13023	-12940	-12939	MG	0.00	0.00	110.00
3584	-12938	-12939	-12861	-12860	MG	0.00	0.00	110.00
3584	-12939	-12940	-12862	-12861	MG	0.00	0.00	110.00
3584	-13162	-13172	-13081	-13094	MG	0.00	0.00	110.00
3584	-13093	-13094	-13022	-13021	MG	0.00	0.00	110.00
3584	-13094	-13081	-13023	-13022	MG	0.00	0.00	110.00
3584	-13299	-13300	-13231	-13230	MG	0.00	0.00	110.00
3584	-13229	-13230	-13162	-13161	MG	0.00	0.00	110.00
3584	-13230	-13231	-13172	-13162	MG	0.00	0.00	110.00
3584	-13438	-13439	-13367	-13366	MG	0.00	0.00	110.00
3584	-13365	-13366	-13299	-13298	MG	0.00	0.00	110.00
3584	-13366	-13367	-13300	-13299	MG	0.00	0.00	110.00
3584	-13574	-13575	-13509	-13508	MG	0.00	0.00	110.00
3584	-13507	-13508	-13438	-13437	MG	0.00	0.00	110.00
3584	-13508	-13509	-13439	-13438	MG	0.00	0.00	110.00
3584	-13706	-13707	-13641	-13640	MG	0.00	0.00	110.00
3584	-13639	-13640	-13574	-13573	MG	0.00	0.00	110.00
3584	-13640	-13641	-13575	-13574	MG	0.00	0.00	110.00
3584	-13838	-13839	-13773	-13772	MG	0.00	0.00	110.00



3584	-13771	-13772	-13706	-13705	MG	0.00	0.00	110.00
3584	-13772	-13773	-13707	-13706	MG	0.00	0.00	110.00
3584	-13976	-13977	-13907	-13906	MG	0.00	0.00	110.00
3584	-13905	-13906	-13838	-13837	MG	0.00	0.00	110.00
3584	-13906	-13907	-13839	-13838	MG	0.00	0.00	110.00
3584	-14111	-14112	-14044	-14043	MG	0.00	0.00	110.00
3584	-14042	-14043	-13976	-13975	MG	0.00	0.00	110.00
3584	-14043	-14044	-13977	-13976	MG	0.00	0.00	110.00
3584	-14243	-14244	-14178	-14177	MG	0.00	0.00	110.00
3584	-14176	-14177	-14111	-14110	MG	0.00	0.00	110.00
3584	-14177	-14178	-14112	-14111	MG	0.00	0.00	110.00
3584	-14375	-14376	-14310	-14309	MG	0.00	0.00	110.00
3584	-14308	-14309	-14243	-14242	MG	0.00	0.00	110.00
3584	-14309	-14310	-14244	-14243	MG	0.00	0.00	110.00
3584	-14507	-14508	-14442	-14441	MG	0.00	0.00	110.00
3584	-14440	-14441	-14375	-14374	MG	0.00	0.00	110.00
3584	-14441	-14442	-14376	-14375	MG	0.00	0.00	110.00
3584	-14645	-14646	-14578	-14577	MG	0.00	0.00	110.00
3584	-14576	-14577	-14507	-14506	MG	0.00	0.00	110.00
3584	-14577	-14578	-14508	-14507	MG	0.00	0.00	110.00
3584	-14777	-14778	-14712	-14711	MG	0.00	0.00	110.00
3584	-14710	-14711	-14645	-14644	MG	0.00	0.00	110.00
3584	-14711	-14712	-14646	-14645	MG	0.00	0.00	110.00
3584	-14909	-14910	-14844	-14843	MG	0.00	0.00	110.00
3584	-14842	-14843	-14777	-14776	MG	0.00	0.00	110.00
3584	-14843	-14844	-14778	-14777	MG	0.00	0.00	110.00
3584	-15041	-15042	-14976	-14975	MG	0.00	0.00	110.00
3584	-14974	-14975	-14909	-14908	MG	0.00	0.00	110.00
3584	-14975	-14976	-14910	-14909	MG	0.00	0.00	110.00
3584	-15175	-15176	-15111	-15110	MG	0.00	0.00	110.00
3584	-15109	-15110	-15041	-15040	MG	0.00	0.00	110.00
3584	-15110	-15111	-15042	-15041	MG	0.00	0.00	110.00
3584	-15308	-15309	-15243	-15242	MG	0.00	0.00	110.00
3584	-15241	-15242	-15175	-15174	MG	0.00	0.00	110.00
3584	-15242	-15243	-15176	-15175	MG	0.00	0.00	110.00
3584	-15440	-15441	-15375	-15374	MG	0.00	0.00	110.00
3584	-15373	-15374	-15308	-15307	MG	0.00	0.00	110.00
3584	-15374	-15375	-15309	-15308	MG	0.00	0.00	110.00
3584	-15572	-15573	-15507	-15506	MG	0.00	0.00	110.00
3584	-15505	-15506	-15440	-15439	MG	0.00	0.00	110.00
3584	-15506	-15507	-15441	-15440	MG	0.00	0.00	110.00
3584	-15704	-15705	-15639	-15638	MG	0.00	0.00	110.00
3584	-15637	-15638	-15572	-15571	MG	0.00	0.00	110.00
3584	-15638	-15639	-15573	-15572	MG	0.00	0.00	110.00
3584	-15836	-15837	-15771	-15770	MG	0.00	0.00	110.00
3584	-15769	-15770	-15704	-15703	MG	0.00	0.00	110.00
3584	-15770	-15771	-15705	-15704	MG	0.00	0.00	110.00
3584	-15969	-15970	-15904	-15903	MG	0.00	0.00	110.00
3584	-15902	-15903	-15836	-15835	MG	0.00	0.00	110.00
3584	-15903	-15904	-15837	-15836	MG	0.00	0.00	110.00
3584	-16101	-16102	-16036	-16035	MG	0.00	0.00	110.00
3584	-16034	-16035	-15969	-15968	MG	0.00	0.00	110.00
3584	-16035	-16036	-15970	-15969	MG	0.00	0.00	110.00
3584	-16233	-16234	-16168	-16167	MG	0.00	0.00	110.00
3584	-16166	-16167	-16101	-16100	MG	0.00	0.00	110.00
3584	-16167	-16168	-16102	-16101	MG	0.00	0.00	110.00
3584	-16365	-16366	-16300	-16299	MG	0.00	0.00	110.00
3584	-16298	-16299	-16233	-16232	MG	0.00	0.00	110.00
3584	-16299	-16300	-16234	-16233	MG	0.00	0.00	110.00
3584	-16497	-16498	-16432	-16431	MG	0.00	0.00	110.00
3584	-16430	-16431	-16365	-16364	MG	0.00	0.00	110.00
3584	-16431	-16432	-16366	-16365	MG	0.00	0.00	110.00
3584	-16596	-16597	-16564	-16563	MG	0.00	0.00	110.00
3584	-16562	-16563	-16497	-16496	MG	0.00	0.00	110.00
3584	-16563	-16564	-16498	-16497	MG	0.00	0.00	110.00
3584	-16464	-16465	-16531	-16530	MG	0.00	0.00	110.00
3584	-16529	-16530	-16596	-16595	MG	0.00	0.00	110.00
3584	-16530	-16531	-16597	-16596	MG	0.00	0.00	110.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	110.00
3584	-16397	-16398	-16464	-16463	MG	0.00	0.00	110.00
3584	-16398	-16399	-16465	-16464	MG	0.00	0.00	110.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	110.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	110.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	110.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	110.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	110.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	110.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	110.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	110.00

3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	110.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	110.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	110.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	110.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	110.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	110.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	110.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	110.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	110.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	110.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	110.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	110.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	110.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	110.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	110.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	110.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	110.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	110.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	110.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	110.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	110.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	110.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	110.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	110.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	110.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	110.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	110.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	110.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	110.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	110.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	110.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	110.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	110.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	110.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	110.00
3584	-11570	-11638	-11637	-11569	MG	0.00	0.00	110.00
3584	-11638	-11708	-11707	-11637	MG	0.00	0.00	110.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	110.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	110.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	110.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	110.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	110.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	110.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	110.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	110.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	110.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	110.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	110.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	110.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	110.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	110.00
3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	110.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	110.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	110.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	110.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	110.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	110.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	110.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	110.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	110.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	110.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	110.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	110.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	110.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	110.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	110.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	110.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	110.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	110.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	110.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	110.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	110.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	110.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	110.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	110.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	110.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	110.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	110.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	110.00

3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	110.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	110.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	110.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	110.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	110.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	110.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	110.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	110.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	110.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	110.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	110.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	110.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	110.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	110.00
3584	-12586	-12585	-12501	-12502	MG	0.00	0.00	110.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	110.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	110.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	110.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	110.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	110.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	110.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	110.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	110.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	110.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	110.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	110.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	110.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	110.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	110.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	110.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	110.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	110.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	110.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	110.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	110.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	110.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	110.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	110.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	110.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	110.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	110.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	110.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	110.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	110.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	110.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	110.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	110.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	110.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	110.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	110.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	110.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	110.00
3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	110.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	110.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	110.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	110.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	110.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	110.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	110.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	110.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	110.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	110.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	110.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	110.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	110.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	110.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	110.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	110.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	110.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	110.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	110.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	110.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	110.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	110.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	110.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	110.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	110.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	110.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	110.00

3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	110.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	110.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	110.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	110.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	110.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	110.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	110.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	110.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	110.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	110.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	110.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	110.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	110.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	110.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	110.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	110.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	110.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	110.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	110.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	110.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	110.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	110.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	110.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	110.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	110.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	110.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	110.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	110.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	110.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	110.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	110.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	110.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	110.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	110.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	110.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	110.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	110.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	110.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	110.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	110.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	110.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	110.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	110.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	110.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	110.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	110.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	110.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	110.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	110.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	110.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	110.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	110.00
3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	110.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	110.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	110.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	110.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	110.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	110.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	110.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	110.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	110.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	110.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	110.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	110.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	110.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	110.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	110.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	110.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	110.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	110.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	110.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	110.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	110.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	110.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	110.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	110.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	110.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	110.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	110.00

3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	110.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	110.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	110.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	110.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	110.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	110.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	110.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	110.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	110.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	110.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	110.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	110.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	110.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	110.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	110.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	110.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	110.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	110.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	110.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	110.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	110.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	110.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	110.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	110.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	110.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	110.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	110.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	110.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	110.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	110.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	110.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	110.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	110.00
3584	-15774	-15773	-15707	-15708	MG	0.00	0.00	110.00
3584	-15708	-15707	-15641	-15642	MG	0.00	0.00	110.00
3584	-15642	-15641	-15575	-15576	MG	0.00	0.00	110.00
3584	-15576	-15575	-15509	-15510	MG	0.00	0.00	110.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	110.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	110.00
3584	-15378	-15377	-15311	-15312	MG	0.00	0.00	110.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	110.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	110.00
3584	-15841	-15840	-15774	-15775	MG	0.00	0.00	110.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	110.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	110.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	110.00
3584	-15577	-15576	-15510	-15511	MG	0.00	0.00	110.00
3584	-15511	-15510	-15444	-15445	MG	0.00	0.00	110.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	110.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	110.00
3584	-15975	-15974	-15908	-15909	MG	0.00	0.00	110.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	110.00
3584	-15842	-15841	-15775	-15776	MG	0.00	0.00	110.00
3584	-15776	-15775	-15709	-15710	MG	0.00	0.00	110.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	110.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	110.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	110.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	110.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	110.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	110.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	110.00
3584	-15910	-15909	-15842	-15843	MG	0.00	0.00	110.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	110.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	110.00
3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	110.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	110.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	110.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	110.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	110.00
3584	-15381	-15380	-15314	-15315	MG	0.00	0.00	110.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	110.00
3584	-15911	-15910	-15843	-15844	MG	0.00	0.00	110.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	110.00
3584	-15778	-15777	-15711	-15712	MG	0.00	0.00	110.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	110.00
3584	-15646	-15645	-15579	-15580	MG	0.00	0.00	110.00
3584	-15580	-15579	-15513	-15514	MG	0.00	0.00	110.00
3584	-15514	-15513	-15447	-15448	MG	0.00	0.00	110.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	110.00

3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	110.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	110.00
3584	-15912	-15911	-15844	-15845	MG	0.00	0.00	110.00
3584	-15845	-15844	-15778	-15779	MG	0.00	0.00	110.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	110.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	110.00
3584	-15647	-15646	-15580	-15581	MG	0.00	0.00	110.00
3584	-15581	-15580	-15514	-15515	MG	0.00	0.00	110.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	110.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	110.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	110.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	110.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	110.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	110.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	110.00
3584	-15714	-15713	-15647	-15648	MG	0.00	0.00	110.00
3584	-15648	-15647	-15581	-15582	MG	0.00	0.00	110.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	110.00
3584	-15516	-15515	-15449	-15450	MG	0.00	0.00	110.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	110.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	110.00
3584	-15980	-15979	-15913	-15914	MG	0.00	0.00	110.00
3584	-15914	-15913	-15846	-15847	MG	0.00	0.00	110.00
3584	-15847	-15846	-15780	-15781	MG	0.00	0.00	110.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	110.00
3584	-15715	-15714	-15648	-15649	MG	0.00	0.00	110.00
3584	-15649	-15648	-15582	-15583	MG	0.00	0.00	110.00
3584	-15583	-15582	-15516	-15517	MG	0.00	0.00	110.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	110.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	110.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	110.00
3584	-15981	-15980	-15914	-15915	MG	0.00	0.00	110.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	110.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	110.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	110.00
3584	-15716	-15715	-15649	-15650	MG	0.00	0.00	110.00
3584	-15650	-15649	-15583	-15584	MG	0.00	0.00	110.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	110.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	110.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	110.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	110.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	110.00
3584	-15916	-15915	-15848	-15849	MG	0.00	0.00	110.00
3584	-15849	-15848	-15782	-15783	MG	0.00	0.00	110.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	110.00
3584	-15717	-15716	-15650	-15651	MG	0.00	0.00	110.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	110.00
3584	-15585	-15584	-15518	-15519	MG	0.00	0.00	110.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	110.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	110.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	110.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	110.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	110.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	110.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	110.00
3584	-15718	-15717	-15651	-15652	MG	0.00	0.00	110.00
3584	-15652	-15651	-15585	-15586	MG	0.00	0.00	110.00
3584	-15586	-15585	-15519	-15520	MG	0.00	0.00	110.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	110.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	110.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	110.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	110.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	110.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	110.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	110.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	110.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	110.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	110.00
3584	-15521	-15520	-15454	-15455	MG	0.00	0.00	110.00
3584	-15455	-15454	-15388	-15389	MG	0.00	0.00	110.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	110.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	110.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	110.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	110.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	110.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	110.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	110.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	110.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	110.00

3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	110.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	110.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	110.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	110.00
3584	-13843	-13842	-13776	-13777	MG	0.00	0.00	110.00
3584	-13777	-13776	-13710	-13711	MG	0.00	0.00	110.00
3584	-13711	-13710	-13644	-13645	MG	0.00	0.00	110.00
3584	-13645	-13644	-13578	-13579	MG	0.00	0.00	110.00
3584	-13579	-13578	-13512	-13513	MG	0.00	0.00	110.00
3584	-13513	-13512	-13442	-13443	MG	0.00	0.00	110.00
3584	-13443	-13442	-13370	-13371	MG	0.00	0.00	110.00
3584	-13371	-13370	-13303	-13304	MG	0.00	0.00	110.00
3584	-14648	-14714	-14713	-14647	MG	0.00	0.00	110.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	110.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	110.00
3584	-15973	-15972	-15906	-15907	MG	0.00	0.00	110.00
3584	-12579	-12653	-12652	-12578	MG	0.00	0.00	110.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	110.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	110.00
3584	-11794	-11793	-11727	-11728	MG	0.00	0.00	110.00
3584	-13444	-13443	-13371	-13372	MG	0.00	0.00	110.00
3584	-13372	-13371	-13304	-13305	MG	0.00	0.00	110.00
3584	-13983	-13982	-13912	-13913	MG	0.00	0.00	110.00
3584	-13913	-13912	-13844	-13845	MG	0.00	0.00	110.00
3584	-13845	-13844	-13778	-13779	MG	0.00	0.00	110.00
3584	-13779	-13778	-13712	-13713	MG	0.00	0.00	110.00
3584	-13713	-13712	-13646	-13647	MG	0.00	0.00	110.00
3584	-13647	-13646	-13580	-13581	MG	0.00	0.00	110.00
3584	-13581	-13580	-13514	-13515	MG	0.00	0.00	110.00
3584	-13515	-13514	-13444	-13445	MG	0.00	0.00	110.00
3584	-13445	-13444	-13372	-13373	MG	0.00	0.00	110.00
3584	-13373	-13372	-13305	-13306	MG	0.00	0.00	110.00
3584	-13984	-13983	-13913	-13914	MG	0.00	0.00	110.00
3584	-13914	-13913	-13845	-13846	MG	0.00	0.00	110.00
3584	-13846	-13845	-13779	-13780	MG	0.00	0.00	110.00
3584	-13780	-13779	-13713	-13714	MG	0.00	0.00	110.00
3584	-13714	-13713	-13647	-13648	MG	0.00	0.00	110.00
3584	-13648	-13647	-13581	-13582	MG	0.00	0.00	110.00
3584	-13582	-13581	-13515	-13516	MG	0.00	0.00	110.00
3584	-13516	-13515	-13445	-13446	MG	0.00	0.00	110.00
3584	-13446	-13445	-13373	-13374	MG	0.00	0.00	110.00
3584	-13374	-13373	-13306	-13307	MG	0.00	0.00	110.00
3584	-13985	-13984	-13914	-13915	MG	0.00	0.00	110.00
3584	-13915	-13914	-13846	-13847	MG	0.00	0.00	110.00
3584	-13847	-13846	-13780	-13781	MG	0.00	0.00	110.00
3584	-13781	-13780	-13714	-13715	MG	0.00	0.00	110.00
3584	-13715	-13714	-13648	-13649	MG	0.00	0.00	110.00
3584	-13649	-13648	-13582	-13583	MG	0.00	0.00	110.00
3584	-13583	-13582	-13516	-13517	MG	0.00	0.00	110.00
3584	-13517	-13516	-13446	-13447	MG	0.00	0.00	110.00
3584	-13447	-13446	-13374	-13375	MG	0.00	0.00	110.00
3584	-13375	-13374	-13307	-13308	MG	0.00	0.00	110.00
3584	-13986	-13985	-13915	-13916	MG	0.00	0.00	110.00
3584	-13916	-13915	-13847	-13848	MG	0.00	0.00	110.00
3584	-13848	-13847	-13781	-13782	MG	0.00	0.00	110.00
3584	-13782	-13781	-13715	-13716	MG	0.00	0.00	110.00
3584	-13716	-13715	-13649	-13650	MG	0.00	0.00	110.00
3584	-13650	-13649	-13583	-13584	MG	0.00	0.00	110.00
3584	-13584	-13583	-13517	-13518	MG	0.00	0.00	110.00
3584	-13518	-13517	-13447	-13448	MG	0.00	0.00	110.00
3584	-13448	-13447	-13375	-13376	MG	0.00	0.00	110.00
3584	-13376	-13375	-13308	-13309	MG	0.00	0.00	110.00
3584	-13987	-13986	-13916	-13917	MG	0.00	0.00	110.00
3584	-13917	-13916	-13848	-13849	MG	0.00	0.00	110.00
3584	-13849	-13848	-13782	-13783	MG	0.00	0.00	110.00
3584	-13783	-13782	-13716	-13717	MG	0.00	0.00	110.00
3584	-13717	-13716	-13650	-13651	MG	0.00	0.00	110.00
3584	-13651	-13650	-13584	-13585	MG	0.00	0.00	110.00
3584	-13585	-13584	-13518	-13519	MG	0.00	0.00	110.00
3584	-13519	-13518	-13448	-13449	MG	0.00	0.00	110.00
3584	-13449	-13448	-13376	-13377	MG	0.00	0.00	110.00
3584	-13377	-13376	-13309	-13310	MG	0.00	0.00	110.00
3584	-13988	-13987	-13917	-13918	MG	0.00	0.00	110.00
3584	-13918	-13917	-13849	-13850	MG	0.00	0.00	110.00
3584	-13850	-13849	-13783	-13784	MG	0.00	0.00	110.00
3584	-13784	-13783	-13717	-13718	MG	0.00	0.00	110.00
3584	-13718	-13717	-13651	-13652	MG	0.00	0.00	110.00
3584	-13652	-13651	-13585	-13586	MG	0.00	0.00	110.00
3584	-13586	-13585	-13519	-13520	MG	0.00	0.00	110.00

3584	-13520	-13519	-13449	-13450	MG	0.00	0.00	110.00
3584	-13450	-13449	-13377	-13378	MG	0.00	0.00	110.00
3584	-13378	-13377	-13310	-13311	MG	0.00	0.00	110.00
3584	-13989	-13988	-13918	-13919	MG	0.00	0.00	110.00
3584	-13919	-13918	-13850	-13851	MG	0.00	0.00	110.00
3584	-13851	-13850	-13784	-13785	MG	0.00	0.00	110.00
3584	-13785	-13784	-13718	-13719	MG	0.00	0.00	110.00
3584	-13719	-13718	-13652	-13653	MG	0.00	0.00	110.00
3584	-13653	-13652	-13586	-13587	MG	0.00	0.00	110.00
3584	-13587	-13586	-13520	-13521	MG	0.00	0.00	110.00
3584	-13521	-13520	-13450	-13451	MG	0.00	0.00	110.00
3584	-13451	-13450	-13378	-13379	MG	0.00	0.00	110.00
3584	-13379	-13378	-13311	-13312	MG	0.00	0.00	110.00
3584	-13990	-13989	-13919	-13920	MG	0.00	0.00	110.00
3584	-13920	-13919	-13851	-13852	MG	0.00	0.00	110.00
3584	-13852	-13851	-13785	-13786	MG	0.00	0.00	110.00
3584	-13786	-13785	-13719	-13720	MG	0.00	0.00	110.00
3584	-13720	-13719	-13653	-13654	MG	0.00	0.00	110.00
3584	-13654	-13653	-13587	-13588	MG	0.00	0.00	110.00
3584	-13588	-13587	-13521	-13522	MG	0.00	0.00	110.00
3584	-13522	-13521	-13451	-13452	MG	0.00	0.00	110.00
3584	-13452	-13451	-13379	-13380	MG	0.00	0.00	110.00
3584	-13380	-13379	-13312	-13313	MG	0.00	0.00	110.00
3584	-13991	-13990	-13920	-13921	MG	0.00	0.00	110.00
3584	-13921	-13920	-13852	-13853	MG	0.00	0.00	110.00
3584	-13853	-13852	-13786	-13787	MG	0.00	0.00	110.00
3584	-13787	-13786	-13720	-13721	MG	0.00	0.00	110.00
3584	-13721	-13720	-13654	-13655	MG	0.00	0.00	110.00
3584	-13655	-13654	-13588	-13589	MG	0.00	0.00	110.00
3584	-13589	-13588	-13522	-13523	MG	0.00	0.00	110.00
3584	-13523	-13522	-13452	-13453	MG	0.00	0.00	110.00
3584	-13453	-13452	-13380	-13381	MG	0.00	0.00	110.00
3584	-13381	-13380	-13313	-13314	MG	0.00	0.00	110.00
3584	-15312	-15311	-15245	-15246	MG	0.00	0.00	110.00
3584	-15246	-15245	-15178	-15179	MG	0.00	0.00	110.00
3584	-15179	-15178	-15113	-15114	MG	0.00	0.00	110.00
3584	-15114	-15113	-15044	-15045	MG	0.00	0.00	110.00
3584	-15045	-15044	-14978	-14979	MG	0.00	0.00	110.00
3584	-14979	-14978	-14912	-14913	MG	0.00	0.00	110.00
3584	-14913	-14912	-14846	-14847	MG	0.00	0.00	110.00
3584	-14847	-14846	-14780	-14781	MG	0.00	0.00	110.00
3584	-14781	-14780	-14714	-14715	MG	0.00	0.00	110.00
3584	-14715	-14714	-14648	-14649	MG	0.00	0.00	110.00
3584	-15313	-15312	-15246	-15247	MG	0.00	0.00	110.00
3584	-15247	-15246	-15179	-15180	MG	0.00	0.00	110.00
3584	-15180	-15179	-15114	-15115	MG	0.00	0.00	110.00
3584	-15115	-15114	-15045	-15046	MG	0.00	0.00	110.00
3584	-15046	-15045	-14979	-14980	MG	0.00	0.00	110.00
3584	-14980	-14979	-14913	-14914	MG	0.00	0.00	110.00
3584	-14914	-14913	-14847	-14848	MG	0.00	0.00	110.00
3584	-14848	-14847	-14781	-14782	MG	0.00	0.00	110.00
3584	-14782	-14781	-14715	-14716	MG	0.00	0.00	110.00
3584	-14716	-14715	-14649	-14650	MG	0.00	0.00	110.00
3584	-15314	-15313	-15247	-15248	MG	0.00	0.00	110.00
3584	-15248	-15247	-15180	-15181	MG	0.00	0.00	110.00
3584	-15181	-15180	-15115	-15116	MG	0.00	0.00	110.00
3584	-15116	-15115	-15046	-15047	MG	0.00	0.00	110.00
3584	-15047	-15046	-14980	-14981	MG	0.00	0.00	110.00
3584	-14981	-14980	-14914	-14915	MG	0.00	0.00	110.00
3584	-14915	-14914	-14848	-14849	MG	0.00	0.00	110.00
3584	-14849	-14848	-14782	-14783	MG	0.00	0.00	110.00
3584	-14783	-14782	-14716	-14717	MG	0.00	0.00	110.00
3584	-14717	-14716	-14650	-14651	MG	0.00	0.00	110.00
3584	-15315	-15314	-15248	-15249	MG	0.00	0.00	110.00
3584	-15249	-15248	-15181	-15182	MG	0.00	0.00	110.00
3584	-15182	-15181	-15116	-15117	MG	0.00	0.00	110.00
3584	-15117	-15116	-15047	-15048	MG	0.00	0.00	110.00
3584	-15048	-15047	-14981	-14982	MG	0.00	0.00	110.00
3584	-14982	-14981	-14915	-14916	MG	0.00	0.00	110.00
3584	-14916	-14915	-14849	-14850	MG	0.00	0.00	110.00
3584	-14850	-14849	-14783	-14784	MG	0.00	0.00	110.00
3584	-14784	-14783	-14717	-14718	MG	0.00	0.00	110.00
3584	-14718	-14717	-14651	-14652	MG	0.00	0.00	110.00
3584	-15316	-15315	-15249	-15250	MG	0.00	0.00	110.00
3584	-15250	-15249	-15182	-15183	MG	0.00	0.00	110.00
3584	-15183	-15182	-15117	-15118	MG	0.00	0.00	110.00
3584	-15118	-15117	-15048	-15049	MG	0.00	0.00	110.00
3584	-15049	-15048	-14982	-14983	MG	0.00	0.00	110.00
3584	-14983	-14982	-14916	-14917	MG	0.00	0.00	110.00



3584	-14917	-14916	-14850	-14851	MG	0.00	0.00	110.00
3584	-14851	-14850	-14784	-14785	MG	0.00	0.00	110.00
3584	-14785	-14784	-14718	-14719	MG	0.00	0.00	110.00
3584	-14719	-14718	-14652	-14653	MG	0.00	0.00	110.00
3584	-15317	-15316	-15250	-15251	MG	0.00	0.00	110.00
3584	-15251	-15250	-15183	-15184	MG	0.00	0.00	110.00
3584	-15184	-15183	-15118	-15133	MG	0.00	0.00	110.00
3584	-15133	-15118	-15049	-15050	MG	0.00	0.00	110.00
3584	-15050	-15049	-14983	-14984	MG	0.00	0.00	110.00
3584	-14984	-14983	-14917	-14918	MG	0.00	0.00	110.00
3584	-14918	-14917	-14851	-14852	MG	0.00	0.00	110.00
3584	-14852	-14851	-14785	-14786	MG	0.00	0.00	110.00
3584	-14786	-14785	-14719	-14720	MG	0.00	0.00	110.00
3584	-14720	-14719	-14653	-14654	MG	0.00	0.00	110.00
3584	-15318	-15317	-15251	-15252	MG	0.00	0.00	110.00
3584	-15252	-15251	-15184	-15185	MG	0.00	0.00	110.00
3584	-15185	-15184	-15133	-15119	MG	0.00	0.00	110.00
3584	-15119	-15133	-15050	-15051	MG	0.00	0.00	110.00
3584	-15051	-15050	-14984	-14985	MG	0.00	0.00	110.00
3584	-14985	-14984	-14918	-14919	MG	0.00	0.00	110.00
3584	-14919	-14918	-14852	-14853	MG	0.00	0.00	110.00
3584	-14853	-14852	-14786	-14787	MG	0.00	0.00	110.00
3584	-14787	-14786	-14720	-14721	MG	0.00	0.00	110.00
3584	-14721	-14720	-14654	-14655	MG	0.00	0.00	110.00
3584	-15319	-15318	-15252	-15253	MG	0.00	0.00	110.00
3584	-15253	-15252	-15185	-15186	MG	0.00	0.00	110.00
3584	-15186	-15185	-15119	-15120	MG	0.00	0.00	110.00
3584	-15120	-15119	-15051	-15052	MG	0.00	0.00	110.00
3584	-15052	-15051	-14985	-14986	MG	0.00	0.00	110.00
3584	-14986	-14985	-14919	-14920	MG	0.00	0.00	110.00
3584	-14920	-14919	-14853	-14854	MG	0.00	0.00	110.00
3584	-14854	-14853	-14787	-14788	MG	0.00	0.00	110.00
3584	-14788	-14787	-14721	-14722	MG	0.00	0.00	110.00
3584	-14722	-14721	-14655	-14656	MG	0.00	0.00	110.00
3584	-15320	-15319	-15253	-15254	MG	0.00	0.00	110.00
3584	-15254	-15253	-15186	-15187	MG	0.00	0.00	110.00
3584	-15187	-15186	-15120	-15095	MG	0.00	0.00	110.00
3584	-15095	-15120	-15052	-15053	MG	0.00	0.00	110.00
3584	-15053	-15052	-14986	-14987	MG	0.00	0.00	110.00
3584	-14987	-14986	-14920	-14921	MG	0.00	0.00	110.00
3584	-14921	-14920	-14854	-14855	MG	0.00	0.00	110.00
3584	-14855	-14854	-14788	-14789	MG	0.00	0.00	110.00
3584	-14789	-14788	-14722	-14723	MG	0.00	0.00	110.00
3584	-14723	-14722	-14656	-14657	MG	0.00	0.00	110.00
3584	-15321	-15320	-15254	-15255	MG	0.00	0.00	110.00
3584	-15255	-15254	-15187	-15188	MG	0.00	0.00	110.00
3584	-15188	-15187	-15095	-15134	MG	0.00	0.00	110.00
3584	-15134	-15095	-15053	-15054	MG	0.00	0.00	110.00
3584	-15054	-15053	-14987	-14988	MG	0.00	0.00	110.00
3584	-14988	-14987	-14921	-14922	MG	0.00	0.00	110.00
3584	-14922	-14921	-14855	-14856	MG	0.00	0.00	110.00
3584	-14856	-14855	-14789	-14790	MG	0.00	0.00	110.00
3584	-14790	-14789	-14723	-14724	MG	0.00	0.00	110.00
3584	-14724	-14723	-14657	-14658	MG	0.00	0.00	110.00
3584	-12800	-12799	-12729	-12730	MG	0.00	0.00	110.00
3584	-16463	-16464	-16530	-16529	MG	0.00	0.00	110.00
3584	-12798	-12797	-12727	-12728	MG	0.00	0.00	110.00
3584	-12797	-12796	-12726	-12727	MG	0.00	0.00	110.00
3584	-12796	-12795	-12725	-12726	MG	0.00	0.00	110.00
3584	-12795	-12794	-12724	-12725	MG	0.00	0.00	110.00
3584	-12736	-12735	-12664	-12665	MG	0.00	0.00	110.00
3584	-12735	-12734	-12663	-12664	MG	0.00	0.00	110.00
3584	-12734	-12733	-12662	-12663	MG	0.00	0.00	110.00
3584	-12733	-12732	-12661	-12662	MG	0.00	0.00	110.00
3584	-12732	-12731	-12660	-12661	MG	0.00	0.00	110.00
3584	-12731	-12730	-12659	-12660	MG	0.00	0.00	110.00
3584	-12730	-12729	-12658	-12659	MG	0.00	0.00	110.00
3584	-12729	-12728	-12657	-12658	MG	0.00	0.00	110.00
3584	-15056	-15055	-14989	-14990	MG	0.00	0.00	110.00
3584	-14990	-14989	-14923	-14924	MG	0.00	0.00	110.00
3584	-12726	-12725	-12654	-12655	MG	0.00	0.00	110.00
3584	-12725	-12724	-12653	-12654	MG	0.00	0.00	110.00
3584	-12665	-12664	-12590	-12591	MG	0.00	0.00	110.00
3584	-12664	-12663	-12589	-12590	MG	0.00	0.00	110.00
3584	-14649	-14648	-14580	-14581	MG	0.00	0.00	110.00
3584	-12662	-12661	-12587	-12588	MG	0.00	0.00	110.00
3584	-12661	-12660	-12586	-12587	MG	0.00	0.00	110.00
3584	-12660	-12659	-12585	-12586	MG	0.00	0.00	110.00
3584	-12659	-12658	-12584	-12585	MG	0.00	0.00	110.00

3584	-12658	-12657	-12583	-12584	MG	0.00	0.00	110.00
3584	-12657	-12656	-12582	-12583	MG	0.00	0.00	110.00
3584	-12656	-12655	-12581	-12582	MG	0.00	0.00	110.00
3584	-14115	-14114	-14069	-14046	MG	0.00	0.00	110.00
3584	-12654	-12653	-12579	-12580	MG	0.00	0.00	110.00
3584	-12580	-12579	-12524	-12496	MG	0.00	0.00	110.00
3584	-12496	-12524	-12415	-12416	MG	0.00	0.00	110.00
3584	-12416	-12415	-12349	-12350	MG	0.00	0.00	110.00
3584	-12350	-12349	-12281	-12282	MG	0.00	0.00	110.00
3584	-14380	-14379	-14313	-14314	MG	0.00	0.00	110.00
3584	-14314	-14313	-14247	-14248	MG	0.00	0.00	110.00
3584	-14248	-14247	-14181	-14182	MG	0.00	0.00	110.00
3584	-14182	-14181	-14115	-14116	MG	0.00	0.00	110.00
3584	-14116	-14115	-14046	-14093	MG	0.00	0.00	110.00
3584	-14093	-14046	-13980	-13981	MG	0.00	0.00	110.00
3584	-14651	-14650	-14582	-14583	MG	0.00	0.00	110.00
3584	-14583	-14582	-14512	-14513	MG	0.00	0.00	110.00
3584	-14513	-14512	-14446	-14447	MG	0.00	0.00	110.00
3584	-14447	-14446	-14380	-14381	MG	0.00	0.00	110.00
3584	-14381	-14380	-14314	-14315	MG	0.00	0.00	110.00
3584	-14315	-14314	-14248	-14249	MG	0.00	0.00	110.00
3584	-14249	-14248	-14182	-14183	MG	0.00	0.00	110.00
3584	-14183	-14182	-14116	-14117	MG	0.00	0.00	110.00
3584	-14117	-14116	-14093	-14047	MG	0.00	0.00	110.00
3584	-14047	-14093	-13981	-13982	MG	0.00	0.00	110.00
3584	-14652	-14651	-14583	-14584	MG	0.00	0.00	110.00
3584	-14584	-14583	-14513	-14514	MG	0.00	0.00	110.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	110.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	110.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	110.00
3584	-14316	-14315	-14249	-14250	MG	0.00	0.00	110.00
3584	-14250	-14249	-14183	-14184	MG	0.00	0.00	110.00
3584	-14184	-14183	-14117	-14118	MG	0.00	0.00	110.00
3584	-14118	-14117	-14047	-14048	MG	0.00	0.00	110.00
3584	-14048	-14047	-13982	-13983	MG	0.00	0.00	110.00
3584	-14653	-14652	-14584	-14585	MG	0.00	0.00	110.00
3584	-14585	-14584	-14514	-14515	MG	0.00	0.00	110.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	110.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	110.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	110.00
3584	-14317	-14316	-14250	-14251	MG	0.00	0.00	110.00
3584	-14251	-14250	-14184	-14185	MG	0.00	0.00	110.00
3584	-14185	-14184	-14118	-14119	MG	0.00	0.00	110.00
3584	-14119	-14118	-14048	-14049	MG	0.00	0.00	110.00
3584	-14049	-14048	-13983	-13984	MG	0.00	0.00	110.00
3584	-14654	-14653	-14585	-14586	MG	0.00	0.00	110.00
3584	-14586	-14585	-14515	-14516	MG	0.00	0.00	110.00
3584	-14516	-14515	-14449	-14450	MG	0.00	0.00	110.00
3584	-14450	-14449	-14383	-14384	MG	0.00	0.00	110.00
3584	-14384	-14383	-14317	-14318	MG	0.00	0.00	110.00
3584	-14318	-14317	-14251	-14252	MG	0.00	0.00	110.00
3584	-14252	-14251	-14185	-14186	MG	0.00	0.00	110.00
3584	-14186	-14185	-14119	-14120	MG	0.00	0.00	110.00
3584	-14120	-14119	-14049	-14050	MG	0.00	0.00	110.00
3584	-14050	-14049	-13984	-13985	MG	0.00	0.00	110.00
3584	-14655	-14654	-14586	-14587	MG	0.00	0.00	110.00
3584	-14587	-14586	-14516	-14517	MG	0.00	0.00	110.00
3584	-14517	-14516	-14450	-14451	MG	0.00	0.00	110.00
3584	-14451	-14450	-14384	-14385	MG	0.00	0.00	110.00
3584	-14385	-14384	-14318	-14319	MG	0.00	0.00	110.00
3584	-14319	-14318	-14252	-14253	MG	0.00	0.00	110.00
3584	-14253	-14252	-14186	-14187	MG	0.00	0.00	110.00
3584	-14187	-14186	-14120	-14121	MG	0.00	0.00	110.00
3584	-14121	-14120	-14050	-14051	MG	0.00	0.00	110.00
3584	-14051	-14050	-13985	-13986	MG	0.00	0.00	110.00
3584	-14656	-14655	-14587	-14588	MG	0.00	0.00	110.00
3584	-14588	-14587	-14517	-14518	MG	0.00	0.00	110.00
3584	-14518	-14517	-14451	-14452	MG	0.00	0.00	110.00
3584	-14452	-14451	-14385	-14386	MG	0.00	0.00	110.00
3584	-14386	-14385	-14319	-14320	MG	0.00	0.00	110.00
3584	-14320	-14319	-14253	-14254	MG	0.00	0.00	110.00
3584	-14254	-14253	-14187	-14188	MG	0.00	0.00	110.00
3584	-14188	-14187	-14121	-14122	MG	0.00	0.00	110.00
3584	-14122	-14121	-14051	-14052	MG	0.00	0.00	110.00
3584	-14052	-14051	-13986	-13987	MG	0.00	0.00	110.00
3584	-14657	-14656	-14588	-14589	MG	0.00	0.00	110.00
3584	-14589	-14588	-14518	-14519	MG	0.00	0.00	110.00
3584	-14519	-14518	-14452	-14453	MG	0.00	0.00	110.00
3584	-14453	-14452	-14386	-14387	MG	0.00	0.00	110.00

3584	-14387	-14386	-14320	-14321	MG	0.00	0.00	110.00
3584	-14321	-14320	-14254	-14255	MG	0.00	0.00	110.00
3584	-14255	-14254	-14188	-14189	MG	0.00	0.00	110.00
3584	-14189	-14188	-14122	-14123	MG	0.00	0.00	110.00
3584	-14123	-14122	-14052	-14053	MG	0.00	0.00	110.00
3584	-14053	-14052	-13987	-13988	MG	0.00	0.00	110.00
3584	-14658	-14657	-14589	-14590	MG	0.00	0.00	110.00
3584	-14590	-14589	-14519	-14520	MG	0.00	0.00	110.00
3584	-14520	-14519	-14453	-14454	MG	0.00	0.00	110.00
3584	-14454	-14453	-14387	-14388	MG	0.00	0.00	110.00
3584	-14388	-14387	-14321	-14322	MG	0.00	0.00	110.00
3584	-14322	-14321	-14255	-14256	MG	0.00	0.00	110.00
3584	-14256	-14255	-14189	-14190	MG	0.00	0.00	110.00
3584	-14190	-14189	-14123	-14124	MG	0.00	0.00	110.00
3584	-14124	-14123	-14053	-14054	MG	0.00	0.00	110.00
3584	-14054	-14053	-13988	-13989	MG	0.00	0.00	110.00
3584	-14659	-14658	-14590	-14591	MG	0.00	0.00	110.00
3584	-14591	-14590	-14520	-14521	MG	0.00	0.00	110.00
3584	-14521	-14520	-14454	-14455	MG	0.00	0.00	110.00
3584	-14455	-14454	-14388	-14389	MG	0.00	0.00	110.00
3584	-14389	-14388	-14322	-14323	MG	0.00	0.00	110.00
3584	-14323	-14322	-14256	-14257	MG	0.00	0.00	110.00
3584	-14257	-14256	-14190	-14191	MG	0.00	0.00	110.00
3584	-14191	-14190	-14124	-14125	MG	0.00	0.00	110.00
3584	-14125	-14124	-14054	-14055	MG	0.00	0.00	110.00
3584	-14055	-14054	-13989	-13990	MG	0.00	0.00	110.00
3584	-14660	-14659	-14591	-14592	MG	0.00	0.00	110.00
3584	-16400	-16399	-16465	-16466	MG	0.00	0.00	110.00
3584	-16466	-16465	-16531	-16532	MG	0.00	0.00	110.00
3584	-16532	-16531	-16597	-16598	MG	0.00	0.00	110.00
3584	-14390	-14389	-14323	-14324	MG	0.00	0.00	110.00
3584	-14324	-14323	-14257	-14258	MG	0.00	0.00	110.00
3584	-14258	-14257	-14191	-14192	MG	0.00	0.00	110.00
3584	-14192	-14191	-14125	-14126	MG	0.00	0.00	110.00
3584	-14126	-14125	-14055	-14056	MG	0.00	0.00	110.00
3584	-14056	-14055	-13990	-13991	MG	0.00	0.00	110.00
3584	-16611	-16610	-16577	-16578	MG	0.00	0.00	110.00
3584	-16401	-16400	-16466	-16467	MG	0.00	0.00	110.00
3584	-16467	-16466	-16532	-16533	MG	0.00	0.00	110.00
3584	-16533	-16532	-16598	-16599	MG	0.00	0.00	110.00
3584	-16607	-16606	-16573	-16574	MG	0.00	0.00	110.00
3584	-16606	-16605	-16572	-16573	MG	0.00	0.00	110.00
3584	-16605	-16604	-16571	-16572	MG	0.00	0.00	110.00
3584	-16604	-16603	-16570	-16571	MG	0.00	0.00	110.00
3584	-16603	-16602	-16569	-16570	MG	0.00	0.00	110.00
3584	-16602	-16601	-16568	-16569	MG	0.00	0.00	110.00
3584	-16601	-16600	-16567	-16568	MG	0.00	0.00	110.00
3584	-16600	-16599	-16566	-16567	MG	0.00	0.00	110.00
3584	-16578	-16577	-16511	-16512	MG	0.00	0.00	110.00
3584	-16577	-16576	-16510	-16511	MG	0.00	0.00	110.00
3584	-16576	-16575	-16509	-16510	MG	0.00	0.00	110.00
3584	-16575	-16574	-16508	-16509	MG	0.00	0.00	110.00
3584	-16574	-16573	-16507	-16508	MG	0.00	0.00	110.00
3584	-16573	-16572	-16506	-16507	MG	0.00	0.00	110.00
3584	-16572	-16571	-16505	-16506	MG	0.00	0.00	110.00
3584	-16571	-16570	-16504	-16505	MG	0.00	0.00	110.00
3584	-16570	-16569	-16503	-16504	MG	0.00	0.00	110.00
3584	-16569	-16568	-16502	-16503	MG	0.00	0.00	110.00
3584	-16568	-16567	-16501	-16502	MG	0.00	0.00	110.00
3584	-16567	-16566	-16500	-16501	MG	0.00	0.00	110.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	110.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	110.00
3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	110.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	110.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	110.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	110.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	110.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	110.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	110.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	110.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	110.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	110.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	110.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	110.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	110.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	110.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	110.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	110.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	110.00

3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	110.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	110.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	110.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	110.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	110.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	110.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	110.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	110.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	110.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	110.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	110.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	110.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	110.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	110.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	110.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	110.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	110.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	110.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	110.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	110.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	110.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	110.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	110.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	110.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	110.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	110.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	110.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	110.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	110.00
3584	-16248	-16247	-16181	-16182	MG	0.00	0.00	110.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	110.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	110.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	110.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	110.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	110.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	110.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	110.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	110.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	110.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	110.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	110.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	110.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	110.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	110.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	110.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	110.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	110.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	110.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	110.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	110.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	110.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	110.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	110.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	110.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	110.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	110.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	110.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	110.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	110.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	110.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	110.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	110.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	110.00
3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	110.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	110.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	110.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	110.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	110.00
3584	-14504	-14570	-14569	-14503	MG	0.00	0.00	110.00
3584	-14570	-14636	-14635	-14569	MG	0.00	0.00	110.00
3584	-13972	-14039	-14038	-13971	MG	0.00	0.00	110.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	110.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	110.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	110.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	110.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	110.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	110.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	110.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	110.00

3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	110.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	110.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	110.00
3584	-15907	-15906	-15839	-15840	MG	0.00	0.00	110.00
3584	-10680	-10679	-10568	-10580	MG	0.00	0.00	110.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	110.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	110.00
3584	-10415	-10414	-10336	-10337	MG	0.00	0.00	110.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	110.00
3584	-15510	-15509	-15443	-15444	MG	0.00	0.00	110.00
3584	-15444	-15443	-15377	-15378	MG	0.00	0.00	110.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	110.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	110.00
3584	-15908	-15907	-15840	-15841	MG	0.00	0.00	110.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	110.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	110.00
3584	-15709	-15708	-15642	-15643	MG	0.00	0.00	110.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	110.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	110.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	110.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	110.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	110.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	110.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	110.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	110.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	110.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	110.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	110.00
3584	-15578	-15577	-15511	-15512	MG	0.00	0.00	110.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	110.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	110.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	110.00
3584	-15976	-15975	-15909	-15910	MG	0.00	0.00	110.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	110.00
3584	-15843	-15842	-15776	-15777	MG	0.00	0.00	110.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	110.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	110.00
3584	-15645	-15644	-15578	-15579	MG	0.00	0.00	110.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	110.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	110.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	110.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	110.00
3584	-15189	-15188	-15134	-15121	MG	0.00	0.00	110.00
3584	-15121	-15134	-15054	-15055	MG	0.00	0.00	110.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	110.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	110.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	110.00
3584	-14857	-14856	-14790	-14791	MG	0.00	0.00	110.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	110.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	110.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	110.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	110.00
3584	-15978	-15977	-15911	-15912	MG	0.00	0.00	110.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	110.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	110.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	110.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	110.00
3584	-14858	-14857	-14791	-14792	MG	0.00	0.00	110.00
3584	-14792	-14791	-14725	-14726	MG	0.00	0.00	110.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	110.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	110.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	110.00
3584	-15979	-15978	-15912	-15913	MG	0.00	0.00	110.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	110.00
3584	-15846	-15845	-15779	-15780	MG	0.00	0.00	110.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	110.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	110.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	110.00
3584	-15582	-15581	-15515	-15516	MG	0.00	0.00	110.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	110.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	110.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	110.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	110.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	110.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	110.00
3584	-15781	-15780	-15714	-15715	MG	0.00	0.00	110.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	110.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	110.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	110.00

3584	-15517	-15516	-15450	-15451	MG	0.00	0.00	110.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	110.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	110.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	110.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	110.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	110.00
3584	-15782	-15781	-15715	-15716	MG	0.00	0.00	110.00
3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	110.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	110.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	110.00
3584	-15518	-15517	-15451	-15452	MG	0.00	0.00	110.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	110.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	110.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	110.00
3584	-14448	-14447	-14381	-14382	MG	0.00	0.00	110.00
3584	-14382	-14381	-14315	-14316	MG	0.00	0.00	110.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	110.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	110.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	110.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	110.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	110.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	110.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	110.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	110.00
3584	-15917	-15916	-15849	-15850	MG	0.00	0.00	110.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	110.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	110.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	110.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	110.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	110.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	110.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	110.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	110.00
3584	-15984	-15983	-15917	-15918	MG	0.00	0.00	110.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	110.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	110.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	110.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	110.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	110.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	110.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	110.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	110.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	110.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	110.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	110.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	110.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	110.00
3584	-16534	-16533	-16599	-16600	MG	0.00	0.00	110.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	110.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	110.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	110.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	110.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	110.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	110.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	110.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	110.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	110.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	110.00
3584	-11450	-11449	-11379	-11380	MG	0.00	0.00	110.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	110.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	110.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	110.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	110.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	110.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	110.00
3584	-16404	-16403	-16469	-16470	MG	0.00	0.00	110.00
3584	-16470	-16469	-16535	-16536	MG	0.00	0.00	110.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	110.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	110.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	110.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	110.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	110.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	110.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	110.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	110.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	110.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	110.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	110.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	110.00

3584	-11382	-11381	-11315	-11316	MG	0.00	0.00	110.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	110.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	110.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	110.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	110.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	110.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	110.00
3584	-16472	-16471	-16537	-16538	MG	0.00	0.00	110.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	110.00
3584	-11453	-11452	-11382	-11383	MG	0.00	0.00	110.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	110.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	110.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	110.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	110.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	110.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	110.00
3584	-16407	-16406	-16472	-16473	MG	0.00	0.00	110.00
3584	-16473	-16472	-16538	-16539	MG	0.00	0.00	110.00
3584	-16539	-16538	-16604	-16605	MG	0.00	0.00	110.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	110.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	110.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	110.00
3584	-12724	-12794	-12793	-12723	MG	0.00	0.00	110.00
3584	-12794	-12864	-12863	-12793	MG	0.00	0.00	110.00
3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	110.00
3584	-12942	-13025	-13024	-12941	MG	0.00	0.00	110.00
3584	-16408	-16407	-16473	-16474	MG	0.00	0.00	110.00
3584	-16474	-16473	-16539	-16540	MG	0.00	0.00	110.00
3584	-13164	-13233	-13232	-13163	MG	0.00	0.00	110.00
3584	-13233	-13302	-13301	-13232	MG	0.00	0.00	110.00
3584	-12578	-12652	-12651	-12577	MG	0.00	0.00	110.00
3584	-12652	-12723	-12722	-12651	MG	0.00	0.00	110.00
3584	-12723	-12793	-12792	-12722	MG	0.00	0.00	110.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	110.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	110.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	110.00
3584	-13024	-13125	-13081	-13023	MG	0.00	0.00	110.00
3584	-13125	-13163	-13172	-13081	MG	0.00	0.00	110.00
3584	-13163	-13232	-13231	-13172	MG	0.00	0.00	110.00
3584	-13232	-13301	-13300	-13231	MG	0.00	0.00	110.00
3584	-11109	-11175	-11174	-11108	MG	0.00	0.00	110.00
3584	-11175	-11241	-11240	-11174	MG	0.00	0.00	110.00
3584	-11241	-11313	-11312	-11240	MG	0.00	0.00	110.00
3584	-11313	-11379	-11378	-11312	MG	0.00	0.00	110.00
3584	-11379	-11449	-11448	-11378	MG	0.00	0.00	110.00
3584	-11449	-11519	-11518	-11448	MG	0.00	0.00	110.00
3584	-16410	-16409	-16475	-16476	MG	0.00	0.00	110.00
3584	-16476	-16475	-16541	-16542	MG	0.00	0.00	110.00
3584	-16542	-16541	-16607	-16608	MG	0.00	0.00	110.00
3584	-11727	-11793	-11792	-11726	MG	0.00	0.00	110.00
3584	-11108	-11174	-11173	-11107	MG	0.00	0.00	110.00
3584	-11174	-11240	-11239	-11173	MG	0.00	0.00	110.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	110.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	110.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	110.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	110.00
3584	-16411	-16410	-16476	-16477	MG	0.00	0.00	110.00
3584	-11588	-11655	-11654	-11587	MG	0.00	0.00	110.00
3584	-11655	-11726	-11725	-11654	MG	0.00	0.00	110.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	110.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	110.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	110.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	110.00
3584	-12058	-12182	-12141	-12051	MG	0.00	0.00	110.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	110.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	110.00
3584	-12281	-12349	-12348	-12280	MG	0.00	0.00	110.00
3584	-16478	-16477	-16543	-16544	MG	0.00	0.00	110.00
3584	-12415	-12524	-12495	-12414	MG	0.00	0.00	110.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	110.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	110.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	110.00
3584	-11932	-12051	-12087	-11991	MG	0.00	0.00	110.00
3584	-12051	-12141	-12169	-12087	MG	0.00	0.00	110.00
3584	-12141	-12208	-12207	-12169	MG	0.00	0.00	110.00
3584	-12208	-12280	-12279	-12207	MG	0.00	0.00	110.00
3584	-12280	-12348	-12347	-12279	MG	0.00	0.00	110.00
3584	-16479	-16478	-16544	-16545	MG	0.00	0.00	110.00
3584	-16545	-16544	-16610	-16611	MG	0.00	0.00	110.00

3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	110.00
3584	3504	-10404	-10403	-10329	MG	0.00	0.00	110.00
3584	-10404	-10473	-10472	-10403	MG	0.00	0.00	110.00
3584	-10473	-10576	-10616	-10472	MG	0.00	0.00	110.00
3584	-10576	-10671	-10690	-10616	MG	0.00	0.00	110.00
3584	-10671	-10759	-10758	-10690	MG	0.00	0.00	110.00
3584	-10759	-10825	-10824	-10758	MG	0.00	0.00	110.00
3584	-10825	-10890	-10902	-10824	MG	0.00	0.00	110.00
3584	-10890	-10966	-10965	-10902	MG	0.00	0.00	110.00
3584	-10966	-11054	-11053	-10965	MG	0.00	0.00	110.00
3584	-11054	-11109	-11108	-11053	MG	0.00	0.00	110.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	110.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	110.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	110.00
3584	-10616	-10690	-10670	-10538	MG	0.00	0.00	110.00
3584	-10690	-10758	-10757	-10670	MG	0.00	0.00	110.00
3584	-10758	-10824	-10823	-10757	MG	0.00	0.00	110.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	110.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	110.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	110.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	110.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	110.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	110.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	110.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	110.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	110.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	110.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	110.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	110.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	110.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	110.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	110.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	110.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	110.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	110.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	110.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	110.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	110.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	110.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	110.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	110.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	110.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	110.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	110.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	110.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	110.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	110.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	110.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	110.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	110.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	110.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	110.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	110.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	110.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	110.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	110.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	110.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	110.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	110.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	110.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	110.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	110.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	110.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	110.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	110.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	110.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	110.00
3584	-13033	-13032	-12949	-12967	MG	0.00	0.00	110.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	110.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	110.00
3584	-13030	-13029	-12946	-12947	MG	0.00	0.00	110.00
3584	-13029	-13028	-12945	-12946	MG	0.00	0.00	110.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	110.00
3584	-13027	-13026	-12943	-12944	MG	0.00	0.00	110.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	110.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	110.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	110.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	110.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	110.00



3584	-12967	-12949	-12871	-12872	MG	0.00	0.00	110.00
3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	110.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	110.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	110.00
3584	-12946	-12945	-12867	-12868	MG	0.00	0.00	110.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	110.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	110.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	110.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	110.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	110.00
3584	-12874	-12873	-12803	-12804	MG	0.00	0.00	110.00
3584	-12873	-12872	-12802	-12803	MG	0.00	0.00	110.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	110.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	110.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	110.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	110.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	110.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	110.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	110.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	110.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	110.00
3584	-15777	-15776	-15710	-15711	MG	0.00	0.00	110.00
3584	-15711	-15710	-15644	-15645	MG	0.00	0.00	110.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	110.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	110.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	110.00
3584	-15322	-15321	-15255	-15256	MG	0.00	0.00	110.00
3584	-12799	-12798	-12728	-12729	MG	0.00	0.00	110.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	110.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	110.00
3584	-15055	-15054	-14988	-14989	MG	0.00	0.00	110.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	110.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	110.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	110.00
3584	-14791	-14790	-14724	-14725	MG	0.00	0.00	110.00
3584	-14725	-14724	-14658	-14659	MG	0.00	0.00	110.00
3584	-15323	-15322	-15256	-15257	MG	0.00	0.00	110.00
3584	-15257	-15256	-15189	-15190	MG	0.00	0.00	110.00
3584	-15190	-15189	-15121	-15122	MG	0.00	0.00	110.00
3584	-15122	-15121	-15055	-15056	MG	0.00	0.00	110.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	110.00
3584	-15779	-15778	-15712	-15713	MG	0.00	0.00	110.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	110.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	110.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	110.00
3584	-14726	-14725	-14659	-14660	MG	0.00	0.00	110.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	110.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	110.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	110.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	110.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	110.00
3584	-14313	-14312	-14246	-14247	MG	0.00	0.00	110.00
3584	-14247	-14246	-14180	-14181	MG	0.00	0.00	110.00
3584	-14181	-14180	-14114	-14115	MG	0.00	0.00	110.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	110.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	110.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	110.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	110.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	110.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	110.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	110.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	110.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	110.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	110.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	110.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	110.00
3584	-15451	-15450	-15384	-15385	MG	0.00	0.00	110.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	110.00
3584	-12417	-12416	-12350	-12351	MG	0.00	0.00	110.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	110.00
3584	-12283	-12282	-12210	-12211	MG	0.00	0.00	110.00
3584	-12211	-12210	-12183	-12106	MG	0.00	0.00	110.00
3584	-12106	-12183	-12032	-12033	MG	0.00	0.00	110.00
3584	-12033	-12032	-11960	-11934	MG	0.00	0.00	110.00
3584	-11934	-11960	-11856	-11896	MG	0.00	0.00	110.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	110.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	110.00
3584	-12498	-12497	-12417	-12418	MG	0.00	0.00	110.00
3584	-14514	-14513	-14447	-14448	MG	0.00	0.00	110.00

3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	110.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	110.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	110.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	110.00
3584	-15651	-15650	-15584	-15585	MG	0.00	0.00	110.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	110.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	110.00
3584	-15453	-15452	-15386	-15387	MG	0.00	0.00	110.00
3584	-15387	-15386	-15320	-15321	MG	0.00	0.00	110.00
3584	-14515	-14514	-14448	-14449	MG	0.00	0.00	110.00
3584	-14449	-14448	-14382	-14383	MG	0.00	0.00	110.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	110.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	110.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	110.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	110.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	110.00
3584	-15520	-15519	-15453	-15454	MG	0.00	0.00	110.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	110.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	110.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	110.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	110.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	110.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	110.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	110.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	110.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	110.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	110.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	110.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	110.00
3584	-13980	-13979	-13909	-13910	MG	0.00	0.00	110.00
3584	-13910	-13909	-13841	-13842	MG	0.00	0.00	110.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	110.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	110.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	110.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	110.00
3584	-13578	-13577	-13511	-13512	MG	0.00	0.00	110.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	110.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	110.00
3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	110.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	110.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	110.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	110.00
3584	-12216	-12215	-12118	-12142	MG	0.00	0.00	110.00
3584	-12142	-12118	-12091	-12092	MG	0.00	0.00	110.00
3584	-12092	-12091	-11936	-11963	MG	0.00	0.00	110.00
3584	-11963	-11936	-11871	-11872	MG	0.00	0.00	110.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	110.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	110.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	110.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	110.00
3584	-12357	-12356	-12288	-12289	MG	0.00	0.00	110.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	110.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	110.00
3584	-12153	-12142	-12092	-12052	MG	0.00	0.00	110.00
3584	-12052	-12092	-11963	-11964	MG	0.00	0.00	110.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	110.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	110.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	110.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	110.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	110.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	110.00
3584	-12290	-12289	-12217	-12218	MG	0.00	0.00	110.00
3584	-12218	-12217	-12153	-12154	MG	0.00	0.00	110.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	110.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	110.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	110.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	110.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	110.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	110.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	110.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	110.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	110.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	110.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	110.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	110.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	110.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	110.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	110.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	110.00

3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	110.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	110.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	110.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	110.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	110.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	110.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	110.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	110.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	110.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	110.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	110.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	110.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	110.00
3584	-11595	-11594	-11524	-11525	MG	0.00	0.00	110.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	110.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	110.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	110.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	110.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	110.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	110.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	110.00
3584	-11734	-11733	-11660	-11661	MG	0.00	0.00	110.00
3584	-11661	-11660	-11595	-11596	MG	0.00	0.00	110.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	110.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	110.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	110.00
3584	-11386	-11385	-11319	-11320	MG	0.00	0.00	110.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	110.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	110.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	110.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	110.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	110.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	110.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	110.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	110.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	110.00
3584	-11387	-11386	-11320	-11321	MG	0.00	0.00	110.00
3584	-11321	-11320	-11248	-11249	MG	0.00	0.00	110.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	110.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	110.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	110.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	110.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	110.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	110.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	110.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	110.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	110.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	110.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	110.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	110.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	110.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	110.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	110.00
3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	110.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	110.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	110.00
3584	-11389	-11388	-11322	-11323	MG	0.00	0.00	110.00
3584	-11323	-11322	-11250	-11251	MG	0.00	0.00	110.00
3584	-11251	-11250	-11184	-11185	MG	0.00	0.00	110.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	110.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	110.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	110.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	110.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	110.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	110.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	110.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	110.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	110.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	110.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	110.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	110.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	110.00
3584	-11675	-11674	-11600	-11601	MG	0.00	0.00	110.00
3584	-11601	-11600	-11530	-11531	MG	0.00	0.00	110.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	110.00
3584	-11461	-11460	-11390	-11391	MG	0.00	0.00	110.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	110.00
3584	-11325	-11324	-11252	-11253	MG	0.00	0.00	110.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	110.00

3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	110.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	110.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	110.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	110.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	110.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	110.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	110.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	110.00
3584	-13307	-13306	-13237	-13238	MG	0.00	0.00	110.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	110.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	110.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	110.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	110.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	110.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	110.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	110.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	110.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	110.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	110.00
3584	-13239	-13238	-13176	-13177	MG	0.00	0.00	110.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	110.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	110.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	110.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	110.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	110.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	110.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	110.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	110.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	110.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	110.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	110.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	110.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	110.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	110.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	110.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	110.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	110.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	110.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	110.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	110.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	110.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	110.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	110.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	110.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	110.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	110.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	110.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	110.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	110.00
3584	-13037	-13036	-12952	-12953	MG	0.00	0.00	110.00
3584	-13036	-13035	-12951	-12952	MG	0.00	0.00	110.00
3584	-13035	-13034	-12950	-12951	MG	0.00	0.00	110.00
3584	-13034	-13033	-12967	-12950	MG	0.00	0.00	110.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	110.00
3584	-13032	-13031	-12948	-12949	MG	0.00	0.00	110.00
3584	-15840	-15839	-15773	-15774	MG	0.00	0.00	110.00
3584	-11522	-11521	-11451	-11452	MG	0.00	0.00	110.00
3584	-11452	-11451	-11381	-11382	MG	0.00	0.00	110.00
3584	-13028	-13027	-12944	-12945	MG	0.00	0.00	110.00
3584	-11316	-11315	-11243	-11244	MG	0.00	0.00	110.00
3584	-13026	-13025	-12942	-12943	MG	0.00	0.00	110.00
3584	-12953	-12952	-12875	-12876	MG	0.00	0.00	110.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	110.00
3584	-15974	-15973	-15907	-15908	MG	0.00	0.00	110.00
3584	-12950	-12967	-12872	-12873	MG	0.00	0.00	110.00
3584	-11593	-11592	-11522	-11523	MG	0.00	0.00	110.00
3584	-15775	-15774	-15708	-15709	MG	0.00	0.00	110.00
3584	-12948	-12947	-12869	-12870	MG	0.00	0.00	110.00
3584	-15643	-15642	-15576	-15577	MG	0.00	0.00	110.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	110.00
3584	-12945	-12944	-12866	-12867	MG	0.00	0.00	110.00
3584	-15445	-15444	-15378	-15379	MG	0.00	0.00	110.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	110.00
3584	-12876	-12875	-12805	-12806	MG	0.00	0.00	110.00
3584	-15909	-15908	-15841	-15842	MG	0.00	0.00	110.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	110.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	110.00
3584	-15710	-15709	-15643	-15644	MG	0.00	0.00	110.00
3584	-15644	-15643	-15577	-15578	MG	0.00	0.00	110.00

3584	-12870	-12869	-12799	-12800	MG	0.00	0.00	110.00
3584	-15512	-15511	-15445	-15446	MG	0.00	0.00	110.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	110.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	110.00
3584	-11733	-11732	-11671	-11660	MG	0.00	0.00	110.00
3584	-11660	-11671	-11594	-11595	MG	0.00	0.00	110.00
3584	-12221	-12220	-12184	-12156	MG	0.00	0.00	110.00
3584	-11525	-11524	-11454	-11455	MG	0.00	0.00	110.00
3584	-11455	-11454	-11384	-11385	MG	0.00	0.00	110.00
3584	-11385	-11384	-11318	-11319	MG	0.00	0.00	110.00
3584	-15579	-15578	-15512	-15513	MG	0.00	0.00	110.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	110.00
3584	-15447	-15446	-15380	-15381	MG	0.00	0.00	110.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	110.00
3584	-10903	-10890	-10825	-10826	MG	0.00	0.00	110.00
3584	-10826	-10825	-10759	-10760	MG	0.00	0.00	110.00
3584	-15844	-15843	-15777	-15778	MG	0.00	0.00	110.00
3584	-14989	-14988	-14922	-14923	MG	0.00	0.00	110.00
3584	-15712	-15711	-15645	-15646	MG	0.00	0.00	110.00
3584	-10474	-10473	-10404	-10405	MG	0.00	0.00	110.00
3584	-11320	-11319	-11247	-11248	MG	0.00	0.00	110.00
3584	-11248	-11247	-11181	-11182	MG	0.00	0.00	110.00
3584	-15448	-15447	-15381	-15382	MG	0.00	0.00	110.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	110.00
3584	-11735	-11734	-11661	-11672	MG	0.00	0.00	110.00
3584	-11672	-11661	-11596	-11597	MG	0.00	0.00	110.00
3584	-11597	-11596	-11526	-11527	MG	0.00	0.00	110.00
3584	-11527	-11526	-11456	-11457	MG	0.00	0.00	110.00
3584	-15713	-15712	-15646	-15647	MG	0.00	0.00	110.00
3584	-10475	-10474	-10405	-10406	MG	0.00	0.00	110.00
3584	-10406	-10405	-10330	-10353	MG	0.00	0.00	110.00
3584	-15515	-15514	-15448	-15449	MG	0.00	0.00	110.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	110.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	110.00
3584	-14511	-14510	-14444	-14445	MG	0.00	0.00	110.00
3584	-15913	-15912	-15845	-15846	MG	0.00	0.00	110.00
3584	-14379	-14378	-14312	-14313	MG	0.00	0.00	110.00
3584	-15780	-15779	-15713	-15714	MG	0.00	0.00	110.00
3584	-11458	-11457	-11387	-11388	MG	0.00	0.00	110.00
3584	-11388	-11387	-11321	-11322	MG	0.00	0.00	110.00
3584	-11322	-11321	-11249	-11250	MG	0.00	0.00	110.00
3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	110.00
3584	-15450	-15449	-15383	-15384	MG	0.00	0.00	110.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	110.00
3584	-14512	-14511	-14445	-14446	MG	0.00	0.00	110.00
3584	-14446	-14445	-14379	-14380	MG	0.00	0.00	110.00
3584	-11599	-11598	-11528	-11529	MG	0.00	0.00	110.00
3584	-11529	-11528	-11458	-11459	MG	0.00	0.00	110.00
3584	-11459	-11458	-11388	-11389	MG	0.00	0.00	110.00
3584	-10477	-10476	-10407	-10408	MG	0.00	0.00	110.00
3584	-16379	-16378	-16312	-16313	MG	0.00	0.00	110.00
3584	-11114	-11113	-11047	-11037	MG	0.00	0.00	110.00
3584	-11185	-11184	-11118	-11119	MG	0.00	0.00	110.00
3584	-15385	-15384	-15318	-15319	MG	0.00	0.00	110.00
3584	-11738	-11737	-11673	-11674	MG	0.00	0.00	110.00
3584	-15915	-15914	-15847	-15848	MG	0.00	0.00	110.00
3584	-15848	-15847	-15781	-15782	MG	0.00	0.00	110.00
3584	-11530	-11529	-11459	-11460	MG	0.00	0.00	110.00
3584	-11460	-11459	-11389	-11390	MG	0.00	0.00	110.00
3584	-11390	-11389	-11323	-11324	MG	0.00	0.00	110.00
3584	-15584	-15583	-15517	-15518	MG	0.00	0.00	110.00
3584	-11896	-11856	-11794	-11795	MG	0.00	0.00	110.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	110.00
3584	-15386	-15385	-15319	-15320	MG	0.00	0.00	110.00
3584	-15982	-15981	-15915	-15916	MG	0.00	0.00	110.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	110.00
3584	-10765	-10764	-10676	-10677	MG	0.00	0.00	110.00
3584	-15783	-15782	-15716	-15717	MG	0.00	0.00	110.00
3584	-10550	-10566	-10478	-10479	MG	0.00	0.00	110.00
3584	-11391	-11390	-11324	-11325	MG	0.00	0.00	110.00
3584	-16305	-16304	-16238	-16239	MG	0.00	0.00	110.00
3584	-15519	-15518	-15452	-15453	MG	0.00	0.00	110.00
3584	-11187	-11186	-11120	-11121	MG	0.00	0.00	110.00
3584	-13314	-13313	-13244	-13245	MG	0.00	0.00	110.00
3584	-15983	-15982	-15916	-15917	MG	0.00	0.00	110.00
3584	-13312	-13311	-13242	-13243	MG	0.00	0.00	110.00
3584	-15850	-15849	-15783	-15784	MG	0.00	0.00	110.00
3584	-15784	-15783	-15717	-15718	MG	0.00	0.00	110.00
3584	-13309	-13308	-13239	-13240	MG	0.00	0.00	110.00

3584	-13308	-13307	-13238	-13239	MG	0.00	0.00	110.00
3584	-10410	-10409	-10332	-10333	MG	0.00	0.00	110.00
3584	-13306	-13305	-13236	-13237	MG	0.00	0.00	110.00
3584	-15454	-15453	-15387	-15388	MG	0.00	0.00	110.00
3584	-15388	-15387	-15321	-15322	MG	0.00	0.00	110.00
3584	-13303	-13302	-13233	-13234	MG	0.00	0.00	110.00
3584	-15918	-15917	-15850	-15851	MG	0.00	0.00	110.00
3584	-15851	-15850	-15784	-15785	MG	0.00	0.00	110.00
3584	-15785	-15784	-15718	-15719	MG	0.00	0.00	110.00
3584	-15719	-15718	-15652	-15653	MG	0.00	0.00	110.00
3584	-15653	-15652	-15586	-15587	MG	0.00	0.00	110.00
3584	-15587	-15586	-15520	-15521	MG	0.00	0.00	110.00
3584	-16176	-16175	-16109	-16110	MG	0.00	0.00	110.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	110.00
3584	-15389	-15388	-15322	-15323	MG	0.00	0.00	110.00
3584	-13236	-13235	-13173	-13174	MG	0.00	0.00	110.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	110.00
3584	-13842	-13841	-13775	-13776	MG	0.00	0.00	110.00
3584	-13776	-13775	-13709	-13710	MG	0.00	0.00	110.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	110.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	110.00
3584	-13179	-13166	-13082	-13102	MG	0.00	0.00	110.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	110.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	110.00
3584	-13370	-13369	-13302	-13303	MG	0.00	0.00	110.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	110.00
3584	-11728	-11727	-11656	-11657	MG	0.00	0.00	110.00
3584	-12288	-12287	-12215	-12216	MG	0.00	0.00	110.00
3584	-11590	-11589	-11519	-11520	MG	0.00	0.00	110.00
3584	-11520	-11519	-11449	-11450	MG	0.00	0.00	110.00
3584	-13104	-13083	-13036	-13037	MG	0.00	0.00	110.00
3584	-11380	-11379	-11313	-11314	MG	0.00	0.00	110.00
3584	-11314	-11313	-11241	-11242	MG	0.00	0.00	110.00
3584	-11242	-11241	-11175	-11176	MG	0.00	0.00	110.00
3584	-11176	-11175	-11109	-11110	MG	0.00	0.00	110.00
3584	-11795	-11794	-11728	-11729	MG	0.00	0.00	110.00
3584	-11729	-11728	-11657	-11658	MG	0.00	0.00	110.00
3584	-11658	-11657	-11590	-11591	MG	0.00	0.00	110.00
3584	-11591	-11590	-11520	-11521	MG	0.00	0.00	110.00
3584	-11521	-11520	-11450	-11451	MG	0.00	0.00	110.00
3584	-11451	-11450	-11380	-11381	MG	0.00	0.00	110.00
3584	-11381	-11380	-11314	-11315	MG	0.00	0.00	110.00
3584	-11315	-11314	-11242	-11243	MG	0.00	0.00	110.00
3584	-11243	-11242	-11176	-11177	MG	0.00	0.00	110.00
3584	-11177	-11176	-11110	-11111	MG	0.00	0.00	110.00
3584	-11796	-11795	-11729	-11730	MG	0.00	0.00	110.00
3584	-11730	-11729	-11658	-11670	MG	0.00	0.00	110.00
3584	-11670	-11658	-11591	-11592	MG	0.00	0.00	110.00
3584	-11592	-11591	-11521	-11522	MG	0.00	0.00	110.00
3584	-12154	-12153	-12052	-12018	MG	0.00	0.00	110.00
3584	-12018	-12052	-11964	-11992	MG	0.00	0.00	110.00
3584	-11992	-11964	-11859	-11873	MG	0.00	0.00	110.00
3584	-11873	-11859	-11801	-11802	MG	0.00	0.00	110.00
3584	-11244	-11243	-11177	-11178	MG	0.00	0.00	110.00
3584	-11178	-11177	-11111	-11112	MG	0.00	0.00	110.00
3584	-11797	-11796	-11730	-11731	MG	0.00	0.00	110.00
3584	-11731	-11730	-11670	-11659	MG	0.00	0.00	110.00
3584	-11659	-11670	-11592	-11593	MG	0.00	0.00	110.00
3584	-12219	-12218	-12154	-12155	MG	0.00	0.00	110.00
3584	-11523	-11522	-11452	-11453	MG	0.00	0.00	110.00
3584	-12093	-12018	-11992	-11965	MG	0.00	0.00	110.00
3584	-11383	-11382	-11316	-11317	MG	0.00	0.00	110.00
3584	-11317	-11316	-11244	-11245	MG	0.00	0.00	110.00
3584	-11245	-11244	-11178	-11179	MG	0.00	0.00	110.00
3584	-11179	-11178	-11112	-11113	MG	0.00	0.00	110.00
3584	-11798	-11797	-11731	-11732	MG	0.00	0.00	110.00
3584	-12360	-12359	-12291	-12292	MG	0.00	0.00	110.00
3584	-11671	-11659	-11593	-11594	MG	0.00	0.00	110.00
3584	-11594	-11593	-11523	-11524	MG	0.00	0.00	110.00
3584	-11524	-11523	-11453	-11454	MG	0.00	0.00	110.00
3584	-11454	-11453	-11383	-11384	MG	0.00	0.00	110.00
3584	-11384	-11383	-11317	-11318	MG	0.00	0.00	110.00
3584	-11318	-11317	-11245	-11246	MG	0.00	0.00	110.00
3584	-11246	-11245	-11179	-11180	MG	0.00	0.00	110.00
3584	-11180	-11179	-11113	-11114	MG	0.00	0.00	110.00
3584	-11799	-11798	-11732	-11733	MG	0.00	0.00	110.00
3584	-12361	-12360	-12292	-12293	MG	0.00	0.00	110.00
3584	-12293	-12292	-12220	-12221	MG	0.00	0.00	110.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	110.00

3584	-12156	-12184	-12094	-12059	MG	0.00	0.00	110.00
3584	-12059	-12094	-11993	-11966	MG	0.00	0.00	110.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	110.00
3584	-11319	-11318	-11246	-11247	MG	0.00	0.00	110.00
3584	-11247	-11246	-11180	-11181	MG	0.00	0.00	110.00
3584	-11181	-11180	-11114	-11115	MG	0.00	0.00	110.00
3584	-11800	-11799	-11733	-11734	MG	0.00	0.00	110.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	110.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	110.00
3584	-11596	-11595	-11525	-11526	MG	0.00	0.00	110.00
3584	-11526	-11525	-11455	-11456	MG	0.00	0.00	110.00
3584	-11456	-11455	-11385	-11386	MG	0.00	0.00	110.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	110.00
3584	-10405	-10404	3504	-10330	MG	0.00	0.00	110.00
3584	-11111	-11110	-11044	-11045	MG	0.00	0.00	110.00
3584	-11182	-11181	-11115	-11116	MG	0.00	0.00	110.00
3584	-11801	-11800	-11734	-11735	MG	0.00	0.00	110.00
3584	-10904	-10903	-10826	-10827	MG	0.00	0.00	110.00
3584	-10827	-10826	-10760	-10761	MG	0.00	0.00	110.00
3584	-10761	-10760	-10672	-10673	MG	0.00	0.00	110.00
3584	-16510	-16509	-16443	-16444	MG	0.00	0.00	110.00
3584	-11457	-11456	-11386	-11387	MG	0.00	0.00	110.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	110.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	110.00
3584	-11249	-11248	-11182	-11183	MG	0.00	0.00	110.00
3584	-11183	-11182	-11116	-11117	MG	0.00	0.00	110.00
3584	-11802	-11801	-11735	-11736	MG	0.00	0.00	110.00
3584	-11736	-11735	-11672	-11662	MG	0.00	0.00	110.00
3584	-11662	-11672	-11597	-11598	MG	0.00	0.00	110.00
3584	-11598	-11597	-11527	-11528	MG	0.00	0.00	110.00
3584	-11528	-11527	-11457	-11458	MG	0.00	0.00	110.00
3584	-10539	-10577	-10475	-10476	MG	0.00	0.00	110.00
3584	-10476	-10475	-10406	-10407	MG	0.00	0.00	110.00
3584	-10407	-10406	-10353	-10354	MG	0.00	0.00	110.00
3584	-11250	-11249	-11183	-11184	MG	0.00	0.00	110.00
3584	-11184	-11183	-11117	-11118	MG	0.00	0.00	110.00
3584	-11803	-11802	-11736	-11737	MG	0.00	0.00	110.00
3584	-11737	-11736	-11662	-11673	MG	0.00	0.00	110.00
3584	-11673	-11662	-11598	-11599	MG	0.00	0.00	110.00
3584	-16437	-16436	-16370	-16371	MG	0.00	0.00	110.00
3584	-10675	-10674	-10539	-10625	MG	0.00	0.00	110.00
3584	-10625	-10539	-10476	-10477	MG	0.00	0.00	110.00
3584	-16380	-16379	-16313	-16314	MG	0.00	0.00	110.00
3584	-12358	-12357	-12289	-12290	MG	0.00	0.00	110.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	110.00
3584	-16377	-16376	-16310	-16311	MG	0.00	0.00	110.00
3584	-11804	-11803	-11737	-11738	MG	0.00	0.00	110.00
3584	-10891	-10906	-10829	-10830	MG	0.00	0.00	110.00
3584	-11674	-11673	-11599	-11600	MG	0.00	0.00	110.00
3584	-11600	-11599	-11529	-11530	MG	0.00	0.00	110.00
3584	-10676	-10675	-10625	-10566	MG	0.00	0.00	110.00
3584	-10566	-10625	-10477	-10478	MG	0.00	0.00	110.00
3584	-10478	-10477	-10408	-10434	MG	0.00	0.00	110.00
3584	-11324	-11323	-11251	-11252	MG	0.00	0.00	110.00
3584	-11252	-11251	-11185	-11186	MG	0.00	0.00	110.00
3584	-11186	-11185	-11119	-11120	MG	0.00	0.00	110.00
3584	-11805	-11804	-11738	-11739	MG	0.00	0.00	110.00
3584	-11739	-11738	-11674	-11675	MG	0.00	0.00	110.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	110.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	110.00
3584	-11531	-11530	-11460	-11461	MG	0.00	0.00	110.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	110.00
3584	-10479	-10478	-10434	-10409	MG	0.00	0.00	110.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	110.00
3584	-11253	-11252	-11186	-11187	MG	0.00	0.00	110.00
3584	-11049	-11048	-10972	-10973	MG	0.00	0.00	110.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	110.00
3584	-13313	-13312	-13243	-13244	MG	0.00	0.00	110.00
3584	-10831	-10852	-10765	-10766	MG	0.00	0.00	110.00
3584	-13311	-13310	-13241	-13242	MG	0.00	0.00	110.00
3584	-13310	-13309	-13240	-13241	MG	0.00	0.00	110.00
3584	-16243	-16242	-16176	-16177	MG	0.00	0.00	110.00
3584	-16242	-16241	-16175	-16176	MG	0.00	0.00	110.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	110.00
3584	-11117	-11116	-11049	-11055	MG	0.00	0.00	110.00
3584	-13305	-13304	-13235	-13236	MG	0.00	0.00	110.00
3584	-13304	-13303	-13234	-13235	MG	0.00	0.00	110.00
3584	-10916	-10908	-10831	-10832	MG	0.00	0.00	110.00
3584	-13245	-13244	-13181	-13182	MG	0.00	0.00	110.00

3584	-13244	-13243	-13180	-13181	MG	0.00	0.00	110.00
3584	-13243	-13242	-13179	-13180	MG	0.00	0.00	110.00
3584	-13242	-13241	-13166	-13179	MG	0.00	0.00	110.00
3584	-13241	-13240	-13178	-13166	MG	0.00	0.00	110.00
3584	-13240	-13239	-13177	-13178	MG	0.00	0.00	110.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	110.00
3584	-13238	-13237	-13175	-13176	MG	0.00	0.00	110.00
3584	-13237	-13236	-13174	-13175	MG	0.00	0.00	110.00
3584	-10909	-10916	-10832	-10833	MG	0.00	0.00	110.00
3584	-13235	-13234	-13165	-13173	MG	0.00	0.00	110.00
3584	-13234	-13233	-13164	-13165	MG	0.00	0.00	110.00
3584	-13182	-13181	-13083	-13104	MG	0.00	0.00	110.00
3584	-13181	-13180	-13103	-13083	MG	0.00	0.00	110.00
3584	-13180	-13179	-13102	-13103	MG	0.00	0.00	110.00
3584	-16113	-16112	-16046	-16047	MG	0.00	0.00	110.00
3584	-13166	-13178	-13101	-13082	MG	0.00	0.00	110.00
3584	-13178	-13177	-13100	-13101	MG	0.00	0.00	110.00
3584	-13177	-13176	-13099	-13100	MG	0.00	0.00	110.00
3584	-13176	-13175	-13098	-13099	MG	0.00	0.00	110.00
3584	-13175	-13174	-13126	-13098	MG	0.00	0.00	110.00
3584	-13174	-13173	-13097	-13126	MG	0.00	0.00	110.00
3584	-13173	-13165	-13096	-13097	MG	0.00	0.00	110.00
3584	-13165	-13164	-13095	-13096	MG	0.00	0.00	110.00
3584	-10483	-10482	-10412	-10413	MG	0.00	0.00	110.00
3584	-13083	-13103	-13035	-13036	MG	0.00	0.00	110.00
3584	-13103	-13102	-13034	-13035	MG	0.00	0.00	110.00
3584	-13102	-13082	-13033	-13034	MG	0.00	0.00	110.00
3584	-13082	-13101	-13032	-13033	MG	0.00	0.00	110.00
3584	-13101	-13100	-13031	-13032	MG	0.00	0.00	110.00
3584	-13100	-13099	-13030	-13031	MG	0.00	0.00	110.00
3584	-13099	-13098	-13029	-13030	MG	0.00	0.00	110.00
3584	-13098	-13126	-13028	-13029	MG	0.00	0.00	110.00
3584	-13126	-13097	-13027	-13028	MG	0.00	0.00	110.00
3584	-13097	-13096	-13026	-13027	MG	0.00	0.00	110.00
3584	-13096	-13095	-13025	-13026	MG	0.00	0.00	110.00
3584	-11859	-11872	-11800	-11801	MG	0.00	0.00	110.00
3584	-12588	-12587	-12503	-12504	MG	0.00	0.00	110.00
3584	-12504	-12503	-12423	-12424	MG	0.00	0.00	110.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	110.00
3584	-12424	-12423	-12357	-12358	MG	0.00	0.00	110.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	110.00
3584	-13031	-13030	-12947	-12948	MG	0.00	0.00	110.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	110.00
3584	-10971	-10970	-10906	-10891	MG	0.00	0.00	110.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	110.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	110.00
3584	-12589	-12588	-12504	-12505	MG	0.00	0.00	110.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	110.00
3584	-12952	-12951	-12874	-12875	MG	0.00	0.00	110.00
3584	-12951	-12950	-12873	-12874	MG	0.00	0.00	110.00
3584	-12291	-12290	-12218	-12219	MG	0.00	0.00	110.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	110.00
3584	-12949	-12948	-12870	-12871	MG	0.00	0.00	110.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	110.00
3584	-12947	-12946	-12868	-12869	MG	0.00	0.00	110.00
3584	-11860	-11873	-11802	-11803	MG	0.00	0.00	110.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	110.00
3584	-12944	-12943	-12865	-12866	MG	0.00	0.00	110.00
3584	-12943	-12942	-12864	-12865	MG	0.00	0.00	110.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	110.00
3584	-12875	-12874	-12804	-12805	MG	0.00	0.00	110.00
3584	-12220	-12219	-12155	-12184	MG	0.00	0.00	110.00
3584	-12184	-12155	-12093	-12094	MG	0.00	0.00	110.00
3584	-12872	-12871	-12801	-12802	MG	0.00	0.00	110.00
3584	-12871	-12870	-12800	-12801	MG	0.00	0.00	110.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	110.00
3584	-12869	-12868	-12798	-12799	MG	0.00	0.00	110.00
3584	-12868	-12867	-12797	-12798	MG	0.00	0.00	110.00
3584	-12867	-12866	-12796	-12797	MG	0.00	0.00	110.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	110.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	110.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	110.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	110.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	110.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	110.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	110.00
3584	-15513	-15512	-15446	-15447	MG	0.00	0.00	110.00
3584	-11044	-11054	-10966	-10967	MG	0.00	0.00	110.00
3584	-15256	-15255	-15188	-15189	MG	0.00	0.00	110.00



3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	110.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	110.00
3584	-10760	-10759	-10671	-10672	MG	0.00	0.00	110.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	110.00
3584	-14923	-14922	-14856	-14857	MG	0.00	0.00	110.00
3584	-16173	-16172	-16106	-16107	MG	0.00	0.00	110.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	110.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	110.00
3584	-11045	-11044	-10967	-10968	MG	0.00	0.00	110.00
3584	-15382	-15381	-15315	-15316	MG	0.00	0.00	110.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	110.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	110.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	110.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	110.00
3584	-14924	-14923	-14857	-14858	MG	0.00	0.00	110.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	110.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	110.00
3584	-16506	-16505	-16439	-16440	MG	0.00	0.00	110.00
3584	-15449	-15448	-15382	-15383	MG	0.00	0.00	110.00
3584	-14581	-14580	-14510	-14511	MG	0.00	0.00	110.00
3584	-16503	-16502	-16436	-16437	MG	0.00	0.00	110.00
3584	-14445	-14444	-14378	-14379	MG	0.00	0.00	110.00
3584	-10762	-10761	-10673	-10674	MG	0.00	0.00	110.00
3584	-16446	-16445	-16379	-16380	MG	0.00	0.00	110.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	110.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	110.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	110.00
3584	-14046	-14069	-13979	-13980	MG	0.00	0.00	110.00
3584	-14650	-14649	-14581	-14582	MG	0.00	0.00	110.00
3584	-14582	-14581	-14511	-14512	MG	0.00	0.00	110.00
3584	-10906	-10905	-10828	-10829	MG	0.00	0.00	110.00
3584	-16438	-16437	-16371	-16372	MG	0.00	0.00	110.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	110.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	110.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	110.00
3584	-16435	-16434	-16368	-16369	MG	0.00	0.00	110.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	110.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	110.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	110.00
3584	-16537	-16536	-16602	-16603	MG	0.00	0.00	110.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	110.00
3584	-12351	-12350	-12282	-12283	MG	0.00	0.00	110.00
3584	-10764	-10763	-10675	-10676	MG	0.00	0.00	110.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	110.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	110.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	110.00
3584	-16369	-16368	-16302	-16303	MG	0.00	0.00	110.00
3584	-16314	-16313	-16247	-16248	MG	0.00	0.00	110.00
3584	-12582	-12581	-12497	-12498	MG	0.00	0.00	110.00
3584	-10972	-10971	-10891	-10907	MG	0.00	0.00	110.00
3584	-10907	-10891	-10830	-10852	MG	0.00	0.00	110.00
3584	-11965	-11992	-11873	-11860	MG	0.00	0.00	110.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	110.00
3584	-16308	-16307	-16241	-16242	MG	0.00	0.00	110.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	110.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	110.00
3584	-14456	-14455	-14389	-14390	MG	0.00	0.00	110.00
3584	-11116	-11115	-11048	-11049	MG	0.00	0.00	110.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	110.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	110.00
3584	-10908	-10907	-10852	-10831	MG	0.00	0.00	110.00
3584	-16246	-16245	-16179	-16180	MG	0.00	0.00	110.00
3584	-14383	-14382	-14316	-14317	MG	0.00	0.00	110.00
3584	-10654	-10677	-10550	-10567	MG	0.00	0.00	110.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	110.00
3584	-12427	-12426	-12360	-12361	MG	0.00	0.00	110.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	110.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	110.00
3584	-16239	-16238	-16172	-16173	MG	0.00	0.00	110.00
3584	-10974	-10973	-10908	-10916	MG	0.00	0.00	110.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	110.00
3584	-10832	-10831	-10766	-10767	MG	0.00	0.00	110.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	110.00
3584	-10678	-10654	-10567	-10630	MG	0.00	0.00	110.00
3584	-16179	-16178	-16112	-16113	MG	0.00	0.00	110.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	110.00
3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	110.00
3584	-16409	-16408	-16474	-16475	MG	0.00	0.00	110.00
3584	-11056	-11055	-10974	-10975	MG	0.00	0.00	110.00

3584	-10975	-10974	-10916	-10909	MG	0.00	0.00	110.00
3584	-10565	-10576	-10473	-10474	MG	0.00	0.00	110.00
3584	-10833	-10832	-10767	-10768	MG	0.00	0.00	110.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	110.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	110.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	110.00
3584	-13644	-13643	-13577	-13578	MG	0.00	0.00	110.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	110.00
3584	-13512	-13511	-13441	-13442	MG	0.00	0.00	110.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	110.00
3584	-10976	-10975	-10909	-10910	MG	0.00	0.00	110.00
3584	-12422	-12421	-12355	-12356	MG	0.00	0.00	110.00
3584	-12356	-12355	-12287	-12288	MG	0.00	0.00	110.00
3584	-16107	-16106	-16040	-16041	MG	0.00	0.00	110.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	110.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	110.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	110.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	110.00
3584	-11872	-11871	-11799	-11800	MG	0.00	0.00	110.00
3584	-12587	-12586	-12502	-12503	MG	0.00	0.00	110.00
3584	-12503	-12502	-12422	-12423	MG	0.00	0.00	110.00
3584	-12423	-12422	-12356	-12357	MG	0.00	0.00	110.00
3584	-13912	-13911	-13843	-13844	MG	0.00	0.00	110.00
3584	-12289	-12288	-12216	-12217	MG	0.00	0.00	110.00
3584	-12217	-12216	-12142	-12153	MG	0.00	0.00	110.00
3584	-13712	-13711	-13645	-13646	MG	0.00	0.00	110.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	110.00
3584	-11964	-11963	-11872	-11859	MG	0.00	0.00	110.00
3584	-13514	-13513	-13443	-13444	MG	0.00	0.00	110.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	110.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	110.00
3584	-16544	-16543	-16609	-16610	MG	0.00	0.00	110.00
3584	-11110	-11109	-11054	-11044	MG	0.00	0.00	110.00
3584	-16405	-16404	-16470	-16471	MG	0.00	0.00	110.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	110.00
3584	-10481	-10480	-10410	-10411	MG	0.00	0.00	110.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	110.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	110.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	110.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	110.00
3584	-12505	-12504	-12424	-12425	MG	0.00	0.00	110.00
3584	-12425	-12424	-12358	-12359	MG	0.00	0.00	110.00
3584	-12359	-12358	-12290	-12291	MG	0.00	0.00	110.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	110.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	110.00
3584	-12155	-12154	-12018	-12093	MG	0.00	0.00	110.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	110.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	110.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	110.00
3584	-12590	-12589	-12505	-12506	MG	0.00	0.00	110.00
3584	-12506	-12505	-12425	-12426	MG	0.00	0.00	110.00
3584	-12426	-12425	-12359	-12360	MG	0.00	0.00	110.00
3584	-16306	-16305	-16239	-16240	MG	0.00	0.00	110.00
3584	-12292	-12291	-12219	-12220	MG	0.00	0.00	110.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	110.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	110.00
3584	-12094	-12093	-11965	-11993	MG	0.00	0.00	110.00
3584	-11993	-11965	-11860	-11874	MG	0.00	0.00	110.00
3584	-11874	-11860	-11803	-11804	MG	0.00	0.00	110.00
3584	-12591	-12590	-12506	-12507	MG	0.00	0.00	110.00
3584	-12507	-12506	-12426	-12427	MG	0.00	0.00	110.00
3584	-15446	-15445	-15379	-15380	MG	0.00	0.00	110.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	110.00
3584	-16608	-16607	-16574	-16575	MG	0.00	0.00	110.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	110.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	110.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	110.00
3584	-16237	-16236	-16170	-16171	MG	0.00	0.00	110.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	110.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	110.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	110.00
3584	-16180	-16179	-16113	-16114	MG	0.00	0.00	110.00
3584	-16378	-16377	-16311	-16312	MG	0.00	0.00	110.00
3584	-10411	-10410	-10333	-10356	MG	0.00	0.00	110.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	110.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	110.00
3584	-16174	-16173	-16107	-16108	MG	0.00	0.00	110.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	110.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	110.00

3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	110.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	110.00
3584	-10968	-10967	-10903	-10904	MG	0.00	0.00	110.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	110.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	110.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	110.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	110.00
3584	-16509	-16508	-16442	-16443	MG	0.00	0.00	110.00
3584	-16508	-16507	-16441	-16442	MG	0.00	0.00	110.00
3584	-16507	-16506	-16440	-16441	MG	0.00	0.00	110.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	110.00
3584	-11046	-11045	-10968	-10969	MG	0.00	0.00	110.00
3584	-10969	-10968	-10904	-10905	MG	0.00	0.00	110.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	110.00
3584	-10828	-10827	-10761	-10762	MG	0.00	0.00	110.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	110.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	110.00
3584	-16445	-16444	-16378	-16379	MG	0.00	0.00	110.00
3584	-16444	-16443	-16377	-16378	MG	0.00	0.00	110.00
3584	-16443	-16442	-16376	-16377	MG	0.00	0.00	110.00
3584	-16442	-16441	-16375	-16376	MG	0.00	0.00	110.00
3584	-11047	-11046	-10969	-10970	MG	0.00	0.00	110.00
3584	-10970	-10969	-10905	-10906	MG	0.00	0.00	110.00
3584	-16439	-16438	-16372	-16373	MG	0.00	0.00	110.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	110.00
3584	-16412	-16411	-16477	-16478	MG	0.00	0.00	110.00
3584	-16436	-16435	-16369	-16370	MG	0.00	0.00	110.00
3584	-13580	-13579	-13513	-13514	MG	0.00	0.00	110.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	110.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	110.00
3584	-13778	-13777	-13711	-13712	MG	0.00	0.00	110.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	110.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	110.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	110.00
3584	-16374	-16373	-16307	-16308	MG	0.00	0.00	110.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	110.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	110.00
3584	-16371	-16370	-16304	-16305	MG	0.00	0.00	110.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	110.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	110.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	110.00
3584	-11048	-11037	-10971	-10972	MG	0.00	0.00	110.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	110.00
3584	-16312	-16311	-16245	-16246	MG	0.00	0.00	110.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	110.00
3584	-16309	-16308	-16242	-16243	MG	0.00	0.00	110.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	110.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	110.00
3584	-15379	-15378	-15312	-15313	MG	0.00	0.00	110.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	110.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	110.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	110.00
3584	-16303	-16302	-16236	-16237	MG	0.00	0.00	110.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	110.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	110.00
3584	-10766	-10765	-10677	-10654	MG	0.00	0.00	110.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	110.00
3584	-16044	-16043	-15977	-15978	MG	0.00	0.00	110.00
3584	-15380	-15379	-15313	-15314	MG	0.00	0.00	110.00
3584	-16609	-16608	-16575	-16576	MG	0.00	0.00	110.00
3584	-10568	-10579	-10483	-10484	MG	0.00	0.00	110.00
3584	-16240	-16239	-16173	-16174	MG	0.00	0.00	110.00
3584	-16540	-16539	-16605	-16606	MG	0.00	0.00	110.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	110.00
3584	-16440	-16439	-16373	-16374	MG	0.00	0.00	110.00
3584	-16042	-16041	-15975	-15976	MG	0.00	0.00	110.00
3584	-16182	-16181	-16115	-16116	MG	0.00	0.00	110.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	110.00
3584	-10692	-10691	-10578	-10579	MG	0.00	0.00	110.00
3584	-10579	-10578	-10482	-10483	MG	0.00	0.00	110.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	110.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	110.00
3584	-16541	-16540	-16606	-16607	MG	0.00	0.00	110.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	110.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	110.00
3584	-16171	-16170	-16104	-16105	MG	0.00	0.00	110.00
3584	-16116	-16115	-16049	-16050	MG	0.00	0.00	110.00
3584	-10578	-10630	-10481	-10482	MG	0.00	0.00	110.00
3584	-10482	-10481	-10411	-10412	MG	0.00	0.00	110.00

3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	110.00
3584	-11119	-11118	-11056	-11057	MG	0.00	0.00	110.00
3584	-11057	-11056	-10975	-10976	MG	0.00	0.00	110.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	110.00
3584	-10910	-10909	-10833	-10834	MG	0.00	0.00	110.00
3584	-16108	-16107	-16041	-16042	MG	0.00	0.00	110.00
3584	-16441	-16440	-16374	-16375	MG	0.00	0.00	110.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	110.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	110.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	110.00
3584	-16050	-16049	-15983	-15984	MG	0.00	0.00	110.00
3584	-11120	-11119	-11057	-11058	MG	0.00	0.00	110.00
3584	-11058	-11057	-10976	-10977	MG	0.00	0.00	110.00
3584	-10977	-10976	-10910	-10917	MG	0.00	0.00	110.00
3584	-16045	-16044	-15978	-15979	MG	0.00	0.00	110.00
3584	-16245	-16244	-16178	-16179	MG	0.00	0.00	110.00
3584	-10770	-10769	-10692	-10679	MG	0.00	0.00	110.00
3584	-10679	-10692	-10579	-10568	MG	0.00	0.00	110.00
3584	-16610	-16609	-16576	-16577	MG	0.00	0.00	110.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	110.00
3584	-10414	-10413	-10335	-10336	MG	0.00	0.00	110.00
3584	-13646	-13645	-13579	-13580	MG	0.00	0.00	110.00
3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	110.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	110.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	110.00
3584	-13844	-13843	-13777	-13778	MG	0.00	0.00	110.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	110.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	110.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	110.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	110.00
3584	-16375	-16374	-16308	-16309	MG	0.00	0.00	110.00
3584	-16475	-16474	-16540	-16541	MG	0.00	0.00	110.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	110.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	110.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	110.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	110.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	110.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	110.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	110.00
3584	-16538	-16537	-16603	-16604	MG	0.00	0.00	110.00
3584	-16311	-16310	-16244	-16245	MG	0.00	0.00	110.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	110.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	110.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	110.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	110.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	110.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	110.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	110.00
3584	-16504	-16503	-16437	-16438	MG	0.00	0.00	110.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	110.00
3584	-16376	-16375	-16309	-16310	MG	0.00	0.00	110.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	110.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	110.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	110.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	110.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	110.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	110.00
3584	-15384	-15383	-15317	-15318	MG	0.00	0.00	110.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	110.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	110.00
3584	-13442	-13441	-13369	-13370	MG	0.00	0.00	110.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	110.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	110.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	110.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	110.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	110.00
3584	-15383	-15382	-15316	-15317	MG	0.00	0.00	110.00
3584	-16177	-16176	-16110	-16111	MG	0.00	0.00	110.00
3584	-15101	-15162	-15161	-15100	MG	0.00	0.00	110.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	110.00
3584	-16373	-16372	-16306	-16307	MG	0.00	0.00	110.00
3584	-16372	-16371	-16305	-16306	MG	0.00	0.00	110.00
3584	-16402	-16401	-16467	-16468	MG	0.00	0.00	110.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	110.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	110.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	110.00
3584	-16512	-16511	-16445	-16446	MG	0.00	0.00	110.00
3584	-16511	-16510	-16444	-16445	MG	0.00	0.00	110.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	110.00

3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	110.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	110.00
3584	-16114	-16113	-16047	-16048	MG	0.00	0.00	110.00
3584	-16110	-16109	-16043	-16044	MG	0.00	0.00	110.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	110.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	110.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	110.00
3584	-16535	-16534	-16600	-16601	MG	0.00	0.00	110.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	110.00
3584	-16543	-16542	-16608	-16609	MG	0.00	0.00	110.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	110.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	110.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	110.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	110.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	110.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	110.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	110.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	110.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	110.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	110.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	110.00
3584	-16477	-16476	-16542	-16543	MG	0.00	0.00	110.00
3584	-16313	-16312	-16246	-16247	MG	0.00	0.00	110.00
3584	-16111	-16110	-16044	-16045	MG	0.00	0.00	110.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	110.00
3584	-16469	-16468	-16534	-16535	MG	0.00	0.00	110.00
3584	-14592	-14591	-14521	-14522	MG	0.00	0.00	110.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	110.00
3584	-16505	-16504	-16438	-16439	MG	0.00	0.00	110.00
3584	-16413	-16412	-16478	-16479	MG	0.00	0.00	110.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	110.00
3584	-16370	-16369	-16303	-16304	MG	0.00	0.00	110.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	110.00
3584	-13710	-13709	-13643	-13644	MG	0.00	0.00	110.00
3584	-15452	-15451	-15385	-15386	MG	0.00	0.00	110.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	110.00
3584	-14522	-14521	-14455	-14456	MG	0.00	0.00	110.00
3584	-16047	-16046	-15980	-15981	MG	0.00	0.00	110.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	110.00
3584	-13982	-13981	-13911	-13912	MG	0.00	0.00	110.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	110.00
3584	-13911	-13910	-13842	-13843	MG	0.00	0.00	110.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	110.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	110.00
3584	-13981	-13980	-13910	-13911	MG	0.00	0.00	110.00
3584	-16105	-16104	-16038	-16039	MG	0.00	0.00	110.00
3584	-16501	-16500	-16434	-16435	MG	0.00	0.00	110.00
3584	-16048	-16047	-15981	-15982	MG	0.00	0.00	110.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	110.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	110.00
3584	-16502	-16501	-16435	-16436	MG	0.00	0.00	110.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	110.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	110.00
3630	-15670	-15671	-15737	-15736	MG	0.00	0.00	110.00
3630	-11886	-11887	-11982	-11981	MG	0.00	0.00	110.00
3630	-15801	-15802	-15868	-15867	MG	0.00	0.00	110.00
3630	-12238	-12239	-12311	-12310	MG	0.00	0.00	110.00
3630	-15407	-15408	-15474	-15473	MG	0.00	0.00	110.00
3630	-15538	-15539	-15605	-15604	MG	0.00	0.00	110.00
3630	-11071	-11072	-11137	-11136	MG	0.00	0.00	110.00
3630	-13937	-13938	-14008	-14007	MG	0.00	0.00	110.00
3630	-14142	-14143	-14209	-14208	MG	0.00	0.00	110.00
3630	-15605	-15606	-15672	-15671	MG	0.00	0.00	110.00
3630	-14144	-14145	-14211	-14210	MG	0.00	0.00	110.00
3630	-15274	-15275	-15341	-15340	MG	0.00	0.00	110.00
3630	-11972	-11981	-12100	-12099	MG	0.00	0.00	110.00
3630	-15472	-15473	-15539	-15538	MG	0.00	0.00	110.00
3630	-10655	-10703	-10788	-10787	MG	0.00	0.00	110.00
3630	-11073	-11074	-11139	-11138	MG	0.00	0.00	110.00
3630	-15275	-15276	-15342	-15341	MG	0.00	0.00	110.00
3630	-14078	-14079	-14143	-14142	MG	0.00	0.00	110.00
3630	-14208	-14209	-14275	-14274	MG	0.00	0.00	110.00
3630	-14956	-14955	-15021	-15022	MG	0.00	0.00	110.00
3630	-10442	-10443	-10504	-10503	MG	0.00	0.00	110.00
3630	-10502	-10503	-10618	-10617	MG	0.00	0.00	110.00
3630	-15737	-15738	-15804	-15803	MG	0.00	0.00	110.00
3630	-10293	-10294	-10365	-10364	MG	0.00	0.00	110.00
3630	-12752	-12753	-12823	-12822	MG	0.00	0.00	110.00
3630	-15473	-15474	-15540	-15539	MG	0.00	0.00	110.00

3630	-15655	-15654	-15720	-15721	MG	0.00	0.00	110.00
3630	-12517	-12530	-12608	-12607	MG	0.00	0.00	110.00
3630	-16001	-16002	-16068	-16067	MG	0.00	0.00	110.00
3630	-14759	-14758	-14824	-14825	MG	0.00	0.00	110.00
3630	-15802	-15803	-15869	-15868	MG	0.00	0.00	110.00
3630	-10503	-10504	-10591	-10618	MG	0.00	0.00	110.00
3630	-15869	-15870	-15937	-15936	MG	0.00	0.00	110.00
3630	-11756	-11757	-11823	-11822	MG	0.00	0.00	110.00
3630	-13331	-13332	-13399	-13398	MG	0.00	0.00	110.00
3630	-15803	-15804	-15870	-15869	MG	0.00	0.00	110.00
3630	-15656	-15655	-15721	-15722	MG	0.00	0.00	110.00
3630	-15722	-15721	-15787	-15788	MG	0.00	0.00	110.00
3630	-10424	-10425	-10502	-10501	MG	0.00	0.00	110.00
3630	-10364	-10365	-10443	-10442	MG	0.00	0.00	110.00
3630	-14825	-14824	-14890	-14891	MG	0.00	0.00	110.00
3630	-15800	-15801	-15867	-15866	MG	0.00	0.00	110.00
3630	-15668	-15669	-15735	-15734	MG	0.00	0.00	110.00
3630	-15459	-15458	-15524	-15525	MG	0.00	0.00	110.00
3630	-15525	-15524	-15590	-15591	MG	0.00	0.00	110.00
3630	-15591	-15590	-15656	-15657	MG	0.00	0.00	110.00
3630	-14891	-14890	-14956	-14957	MG	0.00	0.00	110.00
3630	-16000	-16001	-16067	-16066	MG	0.00	0.00	110.00
3630	-15341	-15342	-15408	-15407	MG	0.00	0.00	110.00
3630	-13939	-13940	-14010	-14009	MG	0.00	0.00	110.00
3630	-13471	-13472	-13542	-13541	MG	0.00	0.00	110.00
3630	-13470	-13471	-13541	-13540	MG	0.00	0.00	110.00
3630	-16199	-16200	-16266	-16265	MG	0.00	0.00	110.00
3630	-15073	-15074	-15144	-15143	MG	0.00	0.00	110.00
3630	-15074	-15075	-15145	-15144	MG	0.00	0.00	110.00
3630	-14876	-14877	-14943	-14942	MG	0.00	0.00	110.00
3630	-15671	-15672	-15738	-15737	MG	0.00	0.00	110.00
3630	-15736	-15737	-15803	-15802	MG	0.00	0.00	110.00
3630	-15866	-15867	-15934	-15933	MG	0.00	0.00	110.00
3630	-15539	-15540	-15606	-15605	MG	0.00	0.00	110.00
3630	-15604	-15605	-15671	-15670	MG	0.00	0.00	110.00
3630	-13055	-13056	-13118	-13119	MG	0.00	0.00	110.00
3630	-12680	-12681	-12752	-12751	MG	0.00	0.00	110.00
3630	-14678	-14679	-14745	-14744	MG	0.00	0.00	110.00
3630	-12529	-12517	-12607	-12606	MG	0.00	0.00	110.00
3630	-11269	-11270	-11342	-11341	MG	0.00	0.00	110.00
3630	-14875	-14876	-14942	-14941	MG	0.00	0.00	110.00
3630	-11885	-11886	-11981	-11972	MG	0.00	0.00	110.00
3630	-14692	-14691	-14757	-14758	MG	0.00	0.00	110.00
3630	-14143	-14144	-14210	-14209	MG	0.00	0.00	110.00
3630	-16067	-16068	-16134	-16133	MG	0.00	0.00	110.00
3630	-11754	-11755	-11821	-11820	MG	0.00	0.00	110.00
3630	-10704	-10705	-10790	-10789	MG	0.00	0.00	110.00
3630	-12751	-12752	-12822	-12821	MG	0.00	0.00	110.00
3630	-14064	-14080	-14145	-14144	MG	0.00	0.00	110.00
3630	-14013	-14012	-14081	-14066	MG	0.00	0.00	110.00
3630	-14273	-14274	-14340	-14339	MG	0.00	0.00	110.00
3630	-15071	-15072	-15142	-15141	MG	0.00	0.00	110.00
3630	-12378	-12379	-12445	-12444	MG	0.00	0.00	110.00
3630	-12442	-12443	-12517	-12529	MG	0.00	0.00	110.00
3630	-15867	-15868	-15935	-15934	MG	0.00	0.00	110.00
3630	-13870	-13871	-13939	-13938	MG	0.00	0.00	110.00
3630	-13673	-13674	-13740	-13739	MG	0.00	0.00	110.00
3630	-13738	-13739	-13805	-13804	MG	0.00	0.00	110.00
3630	-12066	-12099	-12161	-12145	MG	0.00	0.00	110.00
3630	-13739	-13740	-13806	-13805	MG	0.00	0.00	110.00
3630	-13607	-13608	-13674	-13673	MG	0.00	0.00	110.00
3630	-13399	-13400	-13472	-13471	MG	0.00	0.00	110.00
3630	-15945	-15944	-16010	-16011	MG	0.00	0.00	110.00
3630	-15273	-15274	-15340	-15339	MG	0.00	0.00	110.00
3630	-11755	-11756	-11822	-11821	MG	0.00	0.00	110.00
3630	-11820	-11821	-11867	-11884	MG	0.00	0.00	110.00
3630	-14473	-14474	-14540	-14539	MG	0.00	0.00	110.00
3630	-13332	-13333	-13400	-13399	MG	0.00	0.00	110.00
3630	-12099	-12100	-12186	-12161	MG	0.00	0.00	110.00
3630	-14090	-14089	-14157	-14158	MG	0.00	0.00	110.00
3630	-11270	-11271	-11343	-11342	MG	0.00	0.00	110.00
3630	-16332	-16333	-16399	-16398	MG	0.00	0.00	110.00
3630	-13936	-13937	-14007	-14006	MG	0.00	0.00	110.00
3630	-15589	-15588	-15654	-15655	MG	0.00	0.00	110.00
3630	-14225	-14224	-14290	-14291	MG	0.00	0.00	110.00
3630	-12824	-12825	-12895	-12894	MG	0.00	0.00	110.00
3630	-12893	-12894	-12976	-12975	MG	0.00	0.00	110.00
3630	-11204	-11205	-11271	-11270	MG	0.00	0.00	110.00
3630	-15143	-15144	-15208	-15207	MG	0.00	0.00	110.00

3630	-16134	-16135	-16201	-16200	MG	0.00	0.00	110.00
3630	-15935	-15936	-16002	-16001	MG	0.00	0.00	110.00
3630	-10703	-10704	-10789	-10788	MG	0.00	0.00	110.00
3630	-16002	-16003	-16069	-16068	MG	0.00	0.00	110.00
3630	-11616	-11617	-11689	-11688	MG	0.00	0.00	110.00
3630	-11476	-11477	-11547	-11546	MG	0.00	0.00	110.00
3630	-11340	-11341	-11407	-11406	MG	0.00	0.00	110.00
3630	-11202	-11203	-11269	-11268	MG	0.00	0.00	110.00
3630	-12239	-12240	-12312	-12311	MG	0.00	0.00	110.00
3630	-12310	-12311	-12379	-12378	MG	0.00	0.00	110.00
3630	-15406	-15407	-15473	-15472	MG	0.00	0.00	110.00
3630	-12100	-12036	-12162	-12186	MG	0.00	0.00	110.00
3630	-12161	-12186	-12239	-12238	MG	0.00	0.00	110.00
3630	-12186	-12162	-12240	-12239	MG	0.00	0.00	110.00
3630	-14284	-14283	-14349	-14350	MG	0.00	0.00	110.00
3630	-14283	-14282	-14348	-14349	MG	0.00	0.00	110.00
3630	-15536	-15537	-15603	-15602	MG	0.00	0.00	110.00
3630	-14957	-14956	-15022	-15023	MG	0.00	0.00	110.00
3630	-15340	-15341	-15407	-15406	MG	0.00	0.00	110.00
3630	-15144	-15145	-15209	-15208	MG	0.00	0.00	110.00
3630	-11619	-11620	-11692	-11691	MG	0.00	0.00	110.00
3630	-14158	-14157	-14223	-14224	MG	0.00	0.00	110.00
3630	-12975	-12976	-13055	-13054	MG	0.00	0.00	110.00
3630	-13117	-13129	-13197	-13196	MG	0.00	0.00	110.00
3630	-13539	-13540	-13606	-13605	MG	0.00	0.00	110.00
3630	-13604	-13605	-13671	-13670	MG	0.00	0.00	110.00
3630	-14339	-14340	-14406	-14405	MG	0.00	0.00	110.00
3630	-12976	-12963	-13056	-13055	MG	0.00	0.00	110.00
3630	-13197	-13198	-13264	-13263	MG	0.00	0.00	110.00
3630	-14077	-14078	-14142	-14141	MG	0.00	0.00	110.00
3630	-14346	-14345	-14411	-14412	MG	0.00	0.00	110.00
3630	-13054	-13055	-13129	-13117	MG	0.00	0.00	110.00
3630	-14677	-14678	-14744	-14743	MG	0.00	0.00	110.00
3630	-13085	-13117	-13196	-13195	MG	0.00	0.00	110.00
3630	-13194	-13195	-13261	-13260	MG	0.00	0.00	110.00
3630	-11268	-11269	-11341	-11340	MG	0.00	0.00	110.00
3630	-14743	-14744	-14810	-14809	MG	0.00	0.00	110.00
3630	-11072	-11073	-11138	-11137	MG	0.00	0.00	110.00
3630	-15007	-15008	-15074	-15073	MG	0.00	0.00	110.00
3630	-15458	-15457	-15523	-15524	MG	0.00	0.00	110.00
3630	-12892	-12893	-12975	-12974	MG	0.00	0.00	110.00
3630	-16263	-16264	-16330	-16329	MG	0.00	0.00	110.00
3630	-16264	-16265	-16331	-16330	MG	0.00	0.00	110.00
3630	-16066	-16067	-16133	-16132	MG	0.00	0.00	110.00
3630	-16131	-16132	-16198	-16197	MG	0.00	0.00	110.00
3630	-16132	-16133	-16199	-16198	MG	0.00	0.00	110.00
3630	-15934	-15935	-16001	-16000	MG	0.00	0.00	110.00
3630	-15999	-16000	-16066	-16065	MG	0.00	0.00	110.00
3630	-16119	-16118	-16184	-16185	MG	0.00	0.00	110.00
3630	-16185	-16184	-16250	-16251	MG	0.00	0.00	110.00
3630	-16251	-16250	-16316	-16317	MG	0.00	0.00	110.00
3630	-16317	-16316	-16382	-16383	MG	0.00	0.00	110.00
3630	-15669	-15670	-15736	-15735	MG	0.00	0.00	110.00
3630	-12309	-12310	-12378	-12377	MG	0.00	0.00	110.00
3630	-13876	-13944	-13945	-13877	MG	0.00	0.00	110.00
3630	-15537	-15538	-15604	-15603	MG	0.00	0.00	110.00
3630	-15924	-15990	-15991	-15925	MG	0.00	0.00	110.00
3630	-15603	-15604	-15670	-15669	MG	0.00	0.00	110.00
3630	-14159	-14158	-14224	-14225	MG	0.00	0.00	110.00
3630	-15470	-15471	-15537	-15536	MG	0.00	0.00	110.00
3630	-15471	-15472	-15538	-15537	MG	0.00	0.00	110.00
3630	-16318	-16317	-16383	-16384	MG	0.00	0.00	110.00
3630	-14341	-14342	-14408	-14407	MG	0.00	0.00	110.00
3630	-11617	-11618	-11690	-11689	MG	0.00	0.00	110.00
3630	-14471	-14472	-14538	-14537	MG	0.00	0.00	110.00
3630	-11689	-11690	-11756	-11755	MG	0.00	0.00	110.00
3630	-11205	-11206	-11272	-11271	MG	0.00	0.00	110.00
3630	-15006	-15007	-15073	-15072	MG	0.00	0.00	110.00
3630	-16121	-16120	-16186	-16187	MG	0.00	0.00	110.00
3630	-15072	-15073	-15143	-15142	MG	0.00	0.00	110.00
3630	-14874	-14875	-14941	-14940	MG	0.00	0.00	110.00
3630	-14939	-14940	-15006	-15005	MG	0.00	0.00	110.00
3630	-16200	-16201	-16267	-16266	MG	0.00	0.00	110.00
3630	-12683	-12684	-12755	-12754	MG	0.00	0.00	110.00
3630	-16266	-16267	-16333	-16332	MG	0.00	0.00	110.00
3630	-12754	-12755	-12825	-12824	MG	0.00	0.00	110.00
3630	-12531	-12532	-12610	-12609	MG	0.00	0.00	110.00
3630	-12608	-12609	-12683	-12682	MG	0.00	0.00	110.00
3630	-15936	-15937	-16003	-16002	MG	0.00	0.00	110.00

3630	-14472	-14473	-14539	-14538	MG	0.00	0.00	110.00
3630	-14537	-14538	-14608	-14607	MG	0.00	0.00	110.00
3630	-14538	-14539	-14609	-14608	MG	0.00	0.00	110.00
3630	-15868	-15869	-15936	-15935	MG	0.00	0.00	110.00
3630	-14405	-14406	-14472	-14471	MG	0.00	0.00	110.00
3630	-13879	-13947	-13948	-13880	MG	0.00	0.00	110.00
3630	-13272	-13341	-13342	-13273	MG	0.00	0.00	110.00
3630	-15156	-15155	-15221	-15222	MG	0.00	0.00	110.00
3630	-15222	-15221	-15288	-15289	MG	0.00	0.00	110.00
3630	-16123	-16122	-16188	-16189	MG	0.00	0.00	110.00
3630	-14141	-14142	-14208	-14207	MG	0.00	0.00	110.00
3630	-16255	-16254	-16320	-16321	MG	0.00	0.00	110.00
3630	-16321	-16320	-16386	-16387	MG	0.00	0.00	110.00
3630	-13748	-13814	-13815	-13749	MG	0.00	0.00	110.00
3630	-14007	-14008	-14079	-14078	MG	0.00	0.00	110.00
3630	-15089	-15088	-15156	-15157	MG	0.00	0.00	110.00
3630	-13868	-13869	-13937	-13936	MG	0.00	0.00	110.00
3630	-13869	-13870	-13938	-13937	MG	0.00	0.00	110.00
3630	-13671	-13672	-13738	-13737	MG	0.00	0.00	110.00
3630	-15208	-15209	-15276	-15275	MG	0.00	0.00	110.00
3630	-15008	-15009	-15075	-15074	MG	0.00	0.00	110.00
3630	-13952	-13951	-14021	-14022	MG	0.00	0.00	110.00
3630	-13950	-13949	-14019	-14020	MG	0.00	0.00	110.00
3630	-13605	-13606	-13672	-13671	MG	0.00	0.00	110.00
3630	-14207	-14208	-14274	-14273	MG	0.00	0.00	110.00
3630	-14942	-14943	-15009	-15008	MG	0.00	0.00	110.00
3630	-14744	-14745	-14811	-14810	MG	0.00	0.00	110.00
3630	-11271	-11272	-11344	-11343	MG	0.00	0.00	110.00
3630	-14610	-14611	-14679	-14678	MG	0.00	0.00	110.00
3630	-13944	-13943	-14013	-14014	MG	0.00	0.00	110.00
3630	-13943	-13942	-14012	-14013	MG	0.00	0.00	110.00
3630	-16265	-16266	-16332	-16331	MG	0.00	0.00	110.00
3630	-14474	-14475	-14541	-14540	MG	0.00	0.00	110.00
3630	-14609	-14610	-14678	-14677	MG	0.00	0.00	110.00
3630	-16133	-16134	-16200	-16199	MG	0.00	0.00	110.00
3630	-12891	-12892	-12974	-12973	MG	0.00	0.00	110.00
3630	-15928	-15927	-15993	-15994	MG	0.00	0.00	110.00
3630	-14408	-14409	-14475	-14474	MG	0.00	0.00	110.00
3630	-14210	-14211	-14277	-14276	MG	0.00	0.00	110.00
3630	-14275	-14276	-14342	-14341	MG	0.00	0.00	110.00
3630	-14276	-14277	-14343	-14342	MG	0.00	0.00	110.00
3630	-13619	-13685	-13686	-13620	MG	0.00	0.00	110.00
3630	-16324	-16323	-16389	-16390	MG	0.00	0.00	110.00
3630	-14091	-14090	-14158	-14159	MG	0.00	0.00	110.00
3630	-12607	-12608	-12682	-12681	MG	0.00	0.00	110.00
3630	-14008	-14009	-14064	-14079	MG	0.00	0.00	110.00
3630	-14009	-14010	-14080	-14064	MG	0.00	0.00	110.00
3630	-13805	-13806	-13872	-13871	MG	0.00	0.00	110.00
3630	-14086	-14085	-14153	-14154	MG	0.00	0.00	110.00
3630	-13871	-13872	-13940	-13939	MG	0.00	0.00	110.00
3630	-14084	-14083	-14151	-14152	MG	0.00	0.00	110.00
3630	-14083	-14067	-14150	-14151	MG	0.00	0.00	110.00
3630	-14067	-14082	-14149	-14150	MG	0.00	0.00	110.00
3630	-13541	-13542	-13608	-13607	MG	0.00	0.00	110.00
3630	-15405	-15406	-15472	-15471	MG	0.00	0.00	110.00
3630	-11980	-12010	-12066	-12098	MG	0.00	0.00	110.00
3630	-12010	-11972	-12099	-12066	MG	0.00	0.00	110.00
3630	-14157	-14156	-14222	-14223	MG	0.00	0.00	110.00
3630	-14156	-14155	-14221	-14222	MG	0.00	0.00	110.00
3630	-13263	-13264	-13333	-13332	MG	0.00	0.00	110.00
3630	-14154	-14153	-14219	-14220	MG	0.00	0.00	110.00
3630	-15924	-15923	-15989	-15990	MG	0.00	0.00	110.00
3630	-13129	-13118	-13198	-13197	MG	0.00	0.00	110.00
3630	-13196	-13197	-13263	-13262	MG	0.00	0.00	110.00
3630	-14150	-14149	-14215	-14216	MG	0.00	0.00	110.00
3630	-14149	-14148	-14214	-14215	MG	0.00	0.00	110.00
3630	-14148	-14147	-14213	-14214	MG	0.00	0.00	110.00
3630	-11406	-11407	-11477	-11476	MG	0.00	0.00	110.00
3630	-11407	-11408	-11478	-11477	MG	0.00	0.00	110.00
3630	-11203	-11204	-11270	-11269	MG	0.00	0.00	110.00
3630	-12894	-12895	-12963	-12976	MG	0.00	0.00	110.00
3630	-16261	-16260	-16326	-16327	MG	0.00	0.00	110.00
3630	-14675	-14676	-14742	-14741	MG	0.00	0.00	110.00
3630	-11342	-11343	-11409	-11408	MG	0.00	0.00	110.00
3630	-11478	-11479	-11549	-11548	MG	0.00	0.00	110.00
3630	-11618	-11619	-11691	-11690	MG	0.00	0.00	110.00
3630	-12609	-12610	-12684	-12683	MG	0.00	0.00	110.00
3630	-12379	-12380	-12446	-12445	MG	0.00	0.00	110.00
3630	-12444	-12445	-12531	-12530	MG	0.00	0.00	110.00



3630	-12445	-12446	-12532	-12531	MG	0.00	0.00	110.00
3630	-10809	-10859	-10930	-10929	MG	0.00	0.00	110.00
3630	-10632	-10617	-10703	-10655	MG	0.00	0.00	110.00
3630	-12311	-12312	-12380	-12379	MG	0.00	0.00	110.00
3630	-15058	-15057	-15123	-15124	MG	0.00	0.00	110.00
3630	-15124	-15123	-15191	-15192	MG	0.00	0.00	110.00
3630	-10500	-10501	-10632	-10590	MG	0.00	0.00	110.00
3630	-10501	-10502	-10617	-10632	MG	0.00	0.00	110.00
3630	-10291	-10292	-10363	-10362	MG	0.00	0.00	110.00
3630	-11981	-11982	-12036	-12100	MG	0.00	0.00	110.00
3630	-15404	-15405	-15471	-15470	MG	0.00	0.00	110.00
3630	-15023	-15022	-15088	-15089	MG	0.00	0.00	110.00
3630	-12530	-12531	-12609	-12608	MG	0.00	0.00	110.00
3630	-12682	-12683	-12754	-12753	MG	0.00	0.00	110.00
3630	-12823	-12824	-12894	-12893	MG	0.00	0.00	110.00
3630	-11691	-11692	-11758	-11757	MG	0.00	0.00	110.00
3630	-11479	-11480	-11550	-11549	MG	0.00	0.00	110.00
3630	-11548	-11549	-11619	-11618	MG	0.00	0.00	110.00
3630	-13951	-13950	-14020	-14021	MG	0.00	0.00	110.00
3630	-11343	-11344	-11410	-11409	MG	0.00	0.00	110.00
3630	-11408	-11409	-11479	-11478	MG	0.00	0.00	110.00
3630	-11409	-11410	-11480	-11479	MG	0.00	0.00	110.00
3630	-14347	-14346	-14412	-14413	MG	0.00	0.00	110.00
3630	-13936	-13935	-14005	-14006	MG	0.00	0.00	110.00
3630	-13942	-13941	-14011	-14012	MG	0.00	0.00	110.00
3630	-11074	-11075	-11140	-11139	MG	0.00	0.00	110.00
3630	-11138	-11139	-11205	-11204	MG	0.00	0.00	110.00
3630	-14024	-14023	-14090	-14091	MG	0.00	0.00	110.00
3630	-10931	-10932	-10997	-10996	MG	0.00	0.00	110.00
3630	-14539	-14540	-14610	-14609	MG	0.00	0.00	110.00
3630	-12753	-12754	-12824	-12823	MG	0.00	0.00	110.00
3630	-14407	-14408	-14474	-14473	MG	0.00	0.00	110.00
3630	-10859	-10860	-10931	-10930	MG	0.00	0.00	110.00
3630	-10860	-10861	-10932	-10931	MG	0.00	0.00	110.00
3630	-10618	-10591	-10705	-10704	MG	0.00	0.00	110.00
3630	-10289	3501	-10359	-10360	MG	0.00	0.00	110.00
3630	-10361	-10360	-10441	-10423	MG	0.00	0.00	110.00
3630	-10360	-10359	-10440	-10441	MG	0.00	0.00	110.00
3630	-10423	-10441	-10499	-10500	MG	0.00	0.00	110.00
3630	-14486	-14485	-14551	-14552	MG	0.00	0.00	110.00
3630	-14485	-14484	-14550	-14551	MG	0.00	0.00	110.00
3630	-10363	-10364	-10442	-10425	MG	0.00	0.00	110.00
3630	-10590	-10589	-10701	-10702	MG	0.00	0.00	110.00
3630	-10589	-10588	-10700	-10701	MG	0.00	0.00	110.00
3630	-10702	-10701	-10785	-10786	MG	0.00	0.00	110.00
3630	-10701	-10700	-10784	-10785	MG	0.00	0.00	110.00
3630	-10786	-10785	-10843	-10858	MG	0.00	0.00	110.00
3630	-10785	-10784	-10842	-10843	MG	0.00	0.00	110.00
3630	-10858	-10843	-10928	-10893	MG	0.00	0.00	110.00
3630	-15602	-15603	-15669	-15668	MG	0.00	0.00	110.00
3630	-16054	-16053	-16119	-16120	MG	0.00	0.00	110.00
3630	-14552	-14551	-14621	-14622	MG	0.00	0.00	110.00
3630	-10993	-10992	-11070	-11071	MG	0.00	0.00	110.00
3630	-10992	-10991	-11069	-11070	MG	0.00	0.00	110.00
3630	-13259	-13258	-13327	-13328	MG	0.00	0.00	110.00
3630	-13328	-13327	-13394	-13395	MG	0.00	0.00	110.00
3630	-15339	-15340	-15406	-15405	MG	0.00	0.00	110.00
3630	-14153	-14152	-14218	-14219	MG	0.00	0.00	110.00
3630	-15205	-15206	-15273	-15272	MG	0.00	0.00	110.00
3630	-15206	-15207	-15274	-15273	MG	0.00	0.00	110.00
3630	-16055	-16054	-16120	-16121	MG	0.00	0.00	110.00
3630	-11889	-12011	-11983	-11890	MG	0.00	0.00	110.00
3630	-13801	-13800	-13866	-13867	MG	0.00	0.00	110.00
3630	-13867	-13866	-13934	-13935	MG	0.00	0.00	110.00
3630	-13260	-13259	-13328	-13329	MG	0.00	0.00	110.00
3630	-13329	-13328	-13395	-13396	MG	0.00	0.00	110.00
3630	-13396	-13395	-13467	-13468	MG	0.00	0.00	110.00
3630	-13468	-13467	-13537	-13538	MG	0.00	0.00	110.00
3630	-16068	-16069	-16135	-16134	MG	0.00	0.00	110.00
3630	-14608	-14609	-14677	-14676	MG	0.00	0.00	110.00
3630	-15326	-15325	-15391	-15392	MG	0.00	0.00	110.00
3630	-14676	-14677	-14743	-14742	MG	0.00	0.00	110.00
3630	-13802	-13801	-13867	-13868	MG	0.00	0.00	110.00
3630	-13868	-13867	-13935	-13936	MG	0.00	0.00	110.00
3630	-11753	-11752	-11818	-11819	MG	0.00	0.00	110.00
3630	-11819	-11818	-11882	-11883	MG	0.00	0.00	110.00
3630	-11883	-11882	-12009	-11971	MG	0.00	0.00	110.00
3630	-11971	-12009	-12097	-12065	MG	0.00	0.00	110.00
3630	-12065	-12097	-12160	-12119	MG	0.00	0.00	110.00

3630	-15991	-15990	-16056	-16057	MG	0.00	0.00	110.00
3630	-14274	-14275	-14341	-14340	MG	0.00	0.00	110.00
3630	-10839	-10918	-10919	-10853	MG	0.00	0.00	110.00
3630	-12375	-12374	-12440	-12441	MG	0.00	0.00	110.00
3630	-12441	-12440	-12547	-12528	MG	0.00	0.00	110.00
3630	-11754	-11753	-11819	-11820	MG	0.00	0.00	110.00
3630	-11820	-11819	-11883	-11884	MG	0.00	0.00	110.00
3630	-11884	-11883	-11971	-11980	MG	0.00	0.00	110.00
3630	-11980	-11971	-12065	-12098	MG	0.00	0.00	110.00
3630	-12098	-12065	-12119	-12113	MG	0.00	0.00	110.00
3630	-15157	-15156	-15222	-15223	MG	0.00	0.00	110.00
3630	-15207	-15208	-15275	-15274	MG	0.00	0.00	110.00
3630	-13954	-13953	-14023	-14024	MG	0.00	0.00	110.00
3630	-13737	-13738	-13804	-13803	MG	0.00	0.00	110.00
3630	-16256	-16255	-16321	-16322	MG	0.00	0.00	110.00
3630	-16322	-16321	-16387	-16388	MG	0.00	0.00	110.00
3630	-12605	-12604	-12678	-12679	MG	0.00	0.00	110.00
3630	-14941	-14942	-15008	-15007	MG	0.00	0.00	110.00
3630	-12750	-12749	-12819	-12820	MG	0.00	0.00	110.00
3630	-13469	-13470	-13540	-13539	MG	0.00	0.00	110.00
3630	-14809	-14810	-14876	-14875	MG	0.00	0.00	110.00
3630	-14810	-14811	-14877	-14876	MG	0.00	0.00	110.00
3630	-13330	-13331	-13398	-13397	MG	0.00	0.00	110.00
3630	-13552	-13618	-13619	-13553	MG	0.00	0.00	110.00
3630	-13618	-13684	-13685	-13619	MG	0.00	0.00	110.00
3630	-13195	-13196	-13262	-13261	MG	0.00	0.00	110.00
3630	-12822	-12823	-12893	-12892	MG	0.00	0.00	110.00
3630	-14540	-14541	-14611	-14610	MG	0.00	0.00	110.00
3630	-14342	-14343	-14409	-14408	MG	0.00	0.00	110.00
3630	-12821	-12820	-12890	-12891	MG	0.00	0.00	110.00
3630	-15994	-15993	-16059	-16060	MG	0.00	0.00	110.00
3630	-16060	-16059	-16125	-16126	MG	0.00	0.00	110.00
3630	-12681	-12682	-12753	-12752	MG	0.00	0.00	110.00
3630	-13553	-13619	-13620	-13554	MG	0.00	0.00	110.00
3630	-13194	-13193	-13259	-13260	MG	0.00	0.00	110.00
3630	-11070	-11069	-11134	-11135	MG	0.00	0.00	110.00
3630	-12606	-12607	-12681	-12680	MG	0.00	0.00	110.00
3630	-11201	-11200	-11266	-11267	MG	0.00	0.00	110.00
3630	-12377	-12378	-12444	-12443	MG	0.00	0.00	110.00
3630	-15929	-15928	-15994	-15995	MG	0.00	0.00	110.00
3630	-12443	-12444	-12530	-12517	MG	0.00	0.00	110.00
3630	-12237	-12238	-12310	-12309	MG	0.00	0.00	110.00
3630	-14085	-14084	-14152	-14153	MG	0.00	0.00	110.00
3630	-16193	-16192	-16258	-16259	MG	0.00	0.00	110.00
3630	-16259	-16258	-16324	-16325	MG	0.00	0.00	110.00
3630	-12113	-12145	-12237	-12236	MG	0.00	0.00	110.00
3630	-12145	-12161	-12238	-12237	MG	0.00	0.00	110.00
3630	-13606	-13607	-13673	-13672	MG	0.00	0.00	110.00
3630	-11268	-11267	-11339	-11340	MG	0.00	0.00	110.00
3630	-11340	-11339	-11405	-11406	MG	0.00	0.00	110.00
3630	-15996	-15995	-16061	-16062	MG	0.00	0.00	110.00
3630	-16062	-16061	-16127	-16128	MG	0.00	0.00	110.00
3630	-11821	-11822	-11885	-11867	MG	0.00	0.00	110.00
3630	-16194	-16193	-16259	-16260	MG	0.00	0.00	110.00
3630	-11688	-11689	-11755	-11754	MG	0.00	0.00	110.00
3630	-16326	-16325	-16391	-16392	MG	0.00	0.00	110.00
3630	-11477	-11478	-11548	-11547	MG	0.00	0.00	110.00
3630	-11546	-11547	-11617	-11616	MG	0.00	0.00	110.00
3630	-12036	-12162	-12114	-12067	MG	0.00	0.00	110.00
3630	-11341	-11342	-11408	-11407	MG	0.00	0.00	110.00
3630	-12240	-12312	-12313	-12241	MG	0.00	0.00	110.00
3630	-12312	-12380	-12381	-12313	MG	0.00	0.00	110.00
3630	-12380	-12446	-12447	-12381	MG	0.00	0.00	110.00
3630	-16195	-16194	-16260	-16261	MG	0.00	0.00	110.00
3630	-11759	-11825	-11826	-11760	MG	0.00	0.00	110.00
3630	-16327	-16326	-16392	-16393	MG	0.00	0.00	110.00
3630	-14219	-14218	-14284	-14285	MG	0.00	0.00	110.00
3630	-14218	-14217	-14283	-14284	MG	0.00	0.00	110.00
3630	-14217	-14216	-14282	-14283	MG	0.00	0.00	110.00
3630	-10993	-10994	-11072	-11071	MG	0.00	0.00	110.00
3630	-10994	-10995	-11073	-11072	MG	0.00	0.00	110.00
3630	-10787	-10788	-10859	-10809	MG	0.00	0.00	110.00
3630	-10858	-10809	-10929	-10893	MG	0.00	0.00	110.00
3630	-12447	-12533	-12534	-12448	MG	0.00	0.00	110.00
3630	-13264	-13333	-13334	-13265	MG	0.00	0.00	110.00
3630	-10702	-10655	-10787	-10786	MG	0.00	0.00	110.00
3630	-13400	-13472	-13473	-13401	MG	0.00	0.00	110.00
3630	-13472	-13542	-13543	-13473	MG	0.00	0.00	110.00
3630	-13542	-13608	-13609	-13543	MG	0.00	0.00	110.00

3630	-13608	-13674	-13675	-13609	MG	0.00	0.00	110.00
3630	-13674	-13740	-13741	-13675	MG	0.00	0.00	110.00
3630	-13740	-13806	-13807	-13741	MG	0.00	0.00	110.00
3630	-11757	-11758	-11824	-11823	MG	0.00	0.00	110.00
3630	-15272	-15273	-15339	-15338	MG	0.00	0.00	110.00
3630	-11823	-11824	-11887	-11886	MG	0.00	0.00	110.00
3630	-14356	-14355	-14421	-14422	MG	0.00	0.00	110.00
3630	-11690	-11691	-11757	-11756	MG	0.00	0.00	110.00
3630	-13473	-13543	-13544	-13474	MG	0.00	0.00	110.00
3630	-13543	-13609	-13610	-13544	MG	0.00	0.00	110.00
3630	-13609	-13675	-13676	-13610	MG	0.00	0.00	110.00
3630	-11549	-11550	-11620	-11619	MG	0.00	0.00	110.00
3630	-14730	-14729	-14795	-14796	MG	0.00	0.00	110.00
3630	-14349	-14348	-14414	-14415	MG	0.00	0.00	110.00
3630	-14348	-14347	-14413	-14414	MG	0.00	0.00	110.00
3630	3502	-10376	-10366	-10296	MG	0.00	0.00	110.00
3630	-10365	-10443	-10444	-10375	MG	0.00	0.00	110.00
3630	-10443	-10504	-10505	-10444	MG	0.00	0.00	110.00
3630	-15279	-15278	-15344	-15345	MG	0.00	0.00	110.00
3630	-15259	-15258	-15324	-15325	MG	0.00	0.00	110.00
3630	-11139	-11140	-11206	-11205	MG	0.00	0.00	110.00
3630	-14419	-14418	-14484	-14485	MG	0.00	0.00	110.00
3630	-13750	-13816	-13817	-13751	MG	0.00	0.00	110.00
3630	-10932	-10997	-10998	-10933	MG	0.00	0.00	110.00
3630	-10789	-10790	-10861	-10860	MG	0.00	0.00	110.00
3630	-14415	-14414	-14480	-14481	MG	0.00	0.00	110.00
3630	-10375	-10444	-10426	-10376	MG	0.00	0.00	110.00
3630	-10444	-10505	-10506	-10426	MG	0.00	0.00	110.00
3630	-10505	-10553	-10541	-10506	MG	0.00	0.00	110.00
3630	-10553	-10706	-10707	-10541	MG	0.00	0.00	110.00
3630	-10706	-10791	-10792	-10707	MG	0.00	0.00	110.00
3630	-10791	-10862	-10844	-10792	MG	0.00	0.00	110.00
3630	-10862	-10933	-10934	-10844	MG	0.00	0.00	110.00
3630	-10933	-10998	-10999	-10934	MG	0.00	0.00	110.00
3630	-10998	-11076	-11077	-10999	MG	0.00	0.00	110.00
3630	-12532	-12610	-12611	-12533	MG	0.00	0.00	110.00
3630	-12610	-12684	-12685	-12611	MG	0.00	0.00	110.00
3630	-12684	-12755	-12756	-12685	MG	0.00	0.00	110.00
3630	-12755	-12825	-12826	-12756	MG	0.00	0.00	110.00
3630	-12825	-12895	-12896	-12826	MG	0.00	0.00	110.00
3630	-12895	-12963	-12977	-12896	MG	0.00	0.00	110.00
3630	-12963	-13056	-13057	-12977	MG	0.00	0.00	110.00
3630	-13056	-13118	-13119	-13057	MG	0.00	0.00	110.00
3630	-13118	-13198	-13199	-13119	MG	0.00	0.00	110.00
3630	-13198	-13264	-13265	-13199	MG	0.00	0.00	110.00
3630	-12533	-12611	-12612	-12534	MG	0.00	0.00	110.00
3630	-12611	-12685	-12686	-12612	MG	0.00	0.00	110.00
3630	-12685	-12756	-12757	-12686	MG	0.00	0.00	110.00
3630	-12756	-12826	-12827	-12757	MG	0.00	0.00	110.00
3630	-12826	-12896	-12897	-12827	MG	0.00	0.00	110.00
3630	-12896	-12977	-12964	-12897	MG	0.00	0.00	110.00
3630	-12977	-13057	-13058	-12964	MG	0.00	0.00	110.00
3630	-13057	-13119	-13120	-13058	MG	0.00	0.00	110.00
3630	-13119	-13199	-13200	-13120	MG	0.00	0.00	110.00
3630	-13199	-13265	-13266	-13200	MG	0.00	0.00	110.00
3630	-11075	-11140	-11141	-11076	MG	0.00	0.00	110.00
3630	-11140	-11206	-11207	-11141	MG	0.00	0.00	110.00
3630	-11206	-11272	-11273	-11207	MG	0.00	0.00	110.00
3630	-11272	-11344	-11345	-11273	MG	0.00	0.00	110.00
3630	-11344	-11410	-11411	-11345	MG	0.00	0.00	110.00
3630	-11410	-11480	-11481	-11411	MG	0.00	0.00	110.00
3630	-11480	-11550	-11551	-11481	MG	0.00	0.00	110.00
3630	-11550	-11620	-11621	-11551	MG	0.00	0.00	110.00
3630	-11620	-11692	-11693	-11621	MG	0.00	0.00	110.00
3630	-11692	-11758	-11759	-11693	MG	0.00	0.00	110.00
3630	-11076	-11141	-11142	-11077	MG	0.00	0.00	110.00
3630	-11141	-11207	-11208	-11142	MG	0.00	0.00	110.00
3630	-11207	-11273	-11274	-11208	MG	0.00	0.00	110.00
3630	-11273	-11345	-11346	-11274	MG	0.00	0.00	110.00
3630	-16331	-16332	-16398	-16397	MG	0.00	0.00	110.00
3630	-15022	-15021	-15087	-15088	MG	0.00	0.00	110.00
3630	-15088	-15087	-15155	-15156	MG	0.00	0.00	110.00
3630	-16329	-16330	-16396	-16395	MG	0.00	0.00	110.00
3630	-16197	-16198	-16264	-16263	MG	0.00	0.00	110.00
3630	-16065	-16066	-16132	-16131	MG	0.00	0.00	110.00
3630	-15933	-15934	-16000	-15999	MG	0.00	0.00	110.00
3630	-10292	-10293	-10364	-10363	MG	0.00	0.00	110.00
3630	-10425	-10442	-10503	-10502	MG	0.00	0.00	110.00
3630	-10617	-10618	-10704	-10703	MG	0.00	0.00	110.00

3630	-10788	-10789	-10860	-10859	MG	0.00	0.00	110.00
3630	-10930	-10931	-10996	-10995	MG	0.00	0.00	110.00
3630	-13262	-13263	-13332	-13331	MG	0.00	0.00	110.00
3630	-13342	-13409	-13410	-13343	MG	0.00	0.00	110.00
3630	-13409	-13481	-13482	-13410	MG	0.00	0.00	110.00
3630	-13736	-13737	-13803	-13802	MG	0.00	0.00	110.00
3630	-13804	-13805	-13871	-13870	MG	0.00	0.00	110.00
3630	-10290	-10291	-10362	-10361	MG	0.00	0.00	110.00
3630	-10423	-10424	-10501	-10500	MG	0.00	0.00	110.00
3630	-10590	-10632	-10655	-10702	MG	0.00	0.00	110.00
3630	-10786	-10787	-10809	-10858	MG	0.00	0.00	110.00
3630	-10893	-10929	-10994	-10993	MG	0.00	0.00	110.00
3630	-15141	-15142	-15206	-15205	MG	0.00	0.00	110.00
3630	-13261	-13262	-13331	-13330	MG	0.00	0.00	110.00
3630	-13329	-13330	-13397	-13396	MG	0.00	0.00	110.00
3630	-14741	-14742	-14808	-14807	MG	0.00	0.00	110.00
3630	-14607	-14608	-14676	-14675	MG	0.00	0.00	110.00
3630	-13802	-13803	-13869	-13868	MG	0.00	0.00	110.00
3630	-13670	-13671	-13737	-13736	MG	0.00	0.00	110.00
3630	-13538	-13539	-13605	-13604	MG	0.00	0.00	110.00
3630	-13396	-13397	-13469	-13468	MG	0.00	0.00	110.00
3630	-13260	-13261	-13330	-13329	MG	0.00	0.00	110.00
3630	-12376	-12377	-12443	-12442	MG	0.00	0.00	110.00
3630	-12236	-12237	-12309	-12308	MG	0.00	0.00	110.00
3630	-12098	-12066	-12145	-12113	MG	0.00	0.00	110.00
3630	-11884	-11867	-12010	-11980	MG	0.00	0.00	110.00
3630	-15338	-15337	-15403	-15404	MG	0.00	0.00	110.00
3630	-15404	-15403	-15469	-15470	MG	0.00	0.00	110.00
3630	-15470	-15469	-15535	-15536	MG	0.00	0.00	110.00
3630	-15536	-15535	-15601	-15602	MG	0.00	0.00	110.00
3630	-15602	-15601	-15667	-15668	MG	0.00	0.00	110.00
3630	-15668	-15667	-15733	-15734	MG	0.00	0.00	110.00
3630	-15734	-15733	-15799	-15800	MG	0.00	0.00	110.00
3630	-15800	-15799	-15865	-15866	MG	0.00	0.00	110.00
3630	-15866	-15865	-15932	-15933	MG	0.00	0.00	110.00
3630	-12308	-12309	-12377	-12376	MG	0.00	0.00	110.00
3630	-15998	-15997	-16063	-16064	MG	0.00	0.00	110.00
3630	-16064	-16063	-16129	-16130	MG	0.00	0.00	110.00
3630	-16130	-16129	-16195	-16196	MG	0.00	0.00	110.00
3630	-16196	-16195	-16261	-16262	MG	0.00	0.00	110.00
3630	-16262	-16261	-16327	-16328	MG	0.00	0.00	110.00
3630	-16328	-16327	-16393	-16394	MG	0.00	0.00	110.00
3630	-13938	-13939	-14009	-14008	MG	0.00	0.00	110.00
3630	-14079	-14064	-14144	-14143	MG	0.00	0.00	110.00
3630	-14209	-14210	-14276	-14275	MG	0.00	0.00	110.00
3630	-15933	-15932	-15998	-15999	MG	0.00	0.00	110.00
3630	-15999	-15998	-16064	-16065	MG	0.00	0.00	110.00
3630	-16065	-16064	-16130	-16131	MG	0.00	0.00	110.00
3630	-16131	-16130	-16196	-16197	MG	0.00	0.00	110.00
3630	-16197	-16196	-16262	-16263	MG	0.00	0.00	110.00
3630	-16263	-16262	-16328	-16329	MG	0.00	0.00	110.00
3630	-16329	-16328	-16394	-16395	MG	0.00	0.00	110.00
3630	-13128	-13085	-13195	-13194	MG	0.00	0.00	110.00
3630	-12973	-12974	-13053	-13052	MG	0.00	0.00	110.00
3630	-12821	-12822	-12892	-12891	MG	0.00	0.00	110.00
3630	-14606	-14605	-14673	-14674	MG	0.00	0.00	110.00
3630	-14674	-14673	-14739	-14740	MG	0.00	0.00	110.00
3630	-14740	-14739	-14805	-14806	MG	0.00	0.00	110.00
3630	-14806	-14805	-14871	-14872	MG	0.00	0.00	110.00
3630	-14872	-14871	-14937	-14938	MG	0.00	0.00	110.00
3630	-14938	-14937	-15003	-15004	MG	0.00	0.00	110.00
3630	-15004	-15003	-15069	-15070	MG	0.00	0.00	110.00
3630	-15070	-15069	-15129	-15140	MG	0.00	0.00	110.00
3630	-15140	-15129	-15203	-15204	MG	0.00	0.00	110.00
3630	-15204	-15203	-15270	-15271	MG	0.00	0.00	110.00
3630	-14607	-14606	-14674	-14675	MG	0.00	0.00	110.00
3630	-14675	-14674	-14740	-14741	MG	0.00	0.00	110.00
3630	-14741	-14740	-14806	-14807	MG	0.00	0.00	110.00
3630	-14807	-14806	-14872	-14873	MG	0.00	0.00	110.00
3630	-14873	-14872	-14938	-14939	MG	0.00	0.00	110.00
3630	-14939	-14938	-15004	-15005	MG	0.00	0.00	110.00
3630	-15005	-15004	-15070	-15071	MG	0.00	0.00	110.00
3630	-15071	-15070	-15140	-15141	MG	0.00	0.00	110.00
3630	-15141	-15140	-15204	-15205	MG	0.00	0.00	110.00
3630	-15205	-15204	-15271	-15272	MG	0.00	0.00	110.00
3630	-13941	-13940	-14010	-14011	MG	0.00	0.00	110.00
3630	-11822	-11823	-11886	-11885	MG	0.00	0.00	110.00
3630	-14011	-14010	-14080	-14065	MG	0.00	0.00	110.00
3630	-14081	-14065	-14146	-14147	MG	0.00	0.00	110.00

3630	-14065	-14080	-14145	-14146	MG	0.00	0.00	110.00
3630	-14147	-14146	-14212	-14213	MG	0.00	0.00	110.00
3630	-14146	-14145	-14211	-14212	MG	0.00	0.00	110.00
3630	-14213	-14212	-14278	-14279	MG	0.00	0.00	110.00
3630	-14212	-14211	-14277	-14278	MG	0.00	0.00	110.00
3630	-14279	-14278	-14344	-14345	MG	0.00	0.00	110.00
3630	-14278	-14277	-14343	-14344	MG	0.00	0.00	110.00
3630	-14345	-14344	-14410	-14411	MG	0.00	0.00	110.00
3630	-14344	-14343	-14409	-14410	MG	0.00	0.00	110.00
3630	-14411	-14410	-14476	-14477	MG	0.00	0.00	110.00
3630	-14410	-14409	-14475	-14476	MG	0.00	0.00	110.00
3630	-14477	-14476	-14542	-14543	MG	0.00	0.00	110.00
3630	-14476	-14475	-14541	-14542	MG	0.00	0.00	110.00
3630	-14543	-14542	-14612	-14613	MG	0.00	0.00	110.00
3630	-14542	-14541	-14611	-14612	MG	0.00	0.00	110.00
3630	-10995	-10996	-11074	-11073	MG	0.00	0.00	110.00
3630	-10996	-10997	-11075	-11074	MG	0.00	0.00	110.00
3630	-14416	-14415	-14481	-14482	MG	0.00	0.00	110.00
3630	-15475	-15474	-15540	-15541	MG	0.00	0.00	110.00
3630	-15541	-15540	-15606	-15607	MG	0.00	0.00	110.00
3630	-15607	-15606	-15672	-15673	MG	0.00	0.00	110.00
3630	-15673	-15672	-15738	-15739	MG	0.00	0.00	110.00
3630	-15739	-15738	-15804	-15805	MG	0.00	0.00	110.00
3630	-15805	-15804	-15870	-15871	MG	0.00	0.00	110.00
3630	-15871	-15870	-15937	-15938	MG	0.00	0.00	110.00
3630	-15278	-15277	-15343	-15344	MG	0.00	0.00	110.00
3630	-15344	-15343	-15409	-15410	MG	0.00	0.00	110.00
3630	-15410	-15409	-15475	-15476	MG	0.00	0.00	110.00
3630	-15476	-15475	-15541	-15542	MG	0.00	0.00	110.00
3630	-15542	-15541	-15607	-15608	MG	0.00	0.00	110.00
3630	-15608	-15607	-15673	-15674	MG	0.00	0.00	110.00
3630	-15674	-15673	-15739	-15740	MG	0.00	0.00	110.00
3630	-15740	-15739	-15805	-15806	MG	0.00	0.00	110.00
3630	-15806	-15805	-15871	-15872	MG	0.00	0.00	110.00
3630	-15872	-15871	-15938	-15939	MG	0.00	0.00	110.00
3630	-15938	-15937	-16003	-16004	MG	0.00	0.00	110.00
3630	-16004	-16003	-16069	-16070	MG	0.00	0.00	110.00
3630	-16070	-16069	-16135	-16136	MG	0.00	0.00	110.00
3630	-16136	-16135	-16201	-16202	MG	0.00	0.00	110.00
3630	-16202	-16201	-16267	-16268	MG	0.00	0.00	110.00
3630	-16268	-16267	-16333	-16334	MG	0.00	0.00	110.00
3630	-16334	-16333	-16399	-16400	MG	0.00	0.00	110.00
3630	-13395	-13394	-13466	-13467	MG	0.00	0.00	110.00
3630	-13467	-13466	-13536	-13537	MG	0.00	0.00	110.00
3630	-13537	-13536	-13602	-13603	MG	0.00	0.00	110.00
3630	-15939	-15938	-16004	-16005	MG	0.00	0.00	110.00
3630	-16005	-16004	-16070	-16071	MG	0.00	0.00	110.00
3630	-16071	-16070	-16136	-16137	MG	0.00	0.00	110.00
3630	-16137	-16136	-16202	-16203	MG	0.00	0.00	110.00
3630	-16203	-16202	-16268	-16269	MG	0.00	0.00	110.00
3630	-16269	-16268	-16334	-16335	MG	0.00	0.00	110.00
3630	-16335	-16334	-16400	-16401	MG	0.00	0.00	110.00
3630	-15721	-15720	-15786	-15787	MG	0.00	0.00	110.00
3630	-15787	-15786	-15852	-15853	MG	0.00	0.00	110.00
3630	-13538	-13537	-13603	-13604	MG	0.00	0.00	110.00
3630	-14612	-14611	-14679	-14680	MG	0.00	0.00	110.00
3630	-14680	-14679	-14745	-14746	MG	0.00	0.00	110.00
3630	-14746	-14745	-14811	-14812	MG	0.00	0.00	110.00
3630	-14812	-14811	-14877	-14878	MG	0.00	0.00	110.00
3630	-14878	-14877	-14943	-14944	MG	0.00	0.00	110.00
3630	-14944	-14943	-15009	-15010	MG	0.00	0.00	110.00
3630	-15010	-15009	-15075	-15076	MG	0.00	0.00	110.00
3630	-15076	-15075	-15145	-15146	MG	0.00	0.00	110.00
3630	-15146	-15145	-15209	-15210	MG	0.00	0.00	110.00
3630	-15210	-15209	-15276	-15277	MG	0.00	0.00	110.00
3630	-14613	-14612	-14680	-14681	MG	0.00	0.00	110.00
3630	-14681	-14680	-14746	-14747	MG	0.00	0.00	110.00
3630	-14747	-14746	-14812	-14813	MG	0.00	0.00	110.00
3630	-14813	-14812	-14878	-14879	MG	0.00	0.00	110.00
3630	-14879	-14878	-14944	-14945	MG	0.00	0.00	110.00
3630	-14945	-14944	-15010	-15011	MG	0.00	0.00	110.00
3630	-15011	-15010	-15076	-15077	MG	0.00	0.00	110.00
3630	-15077	-15076	-15146	-15147	MG	0.00	0.00	110.00
3630	-15147	-15146	-15210	-15211	MG	0.00	0.00	110.00
3630	-15211	-15210	-15277	-15278	MG	0.00	0.00	110.00
3630	-13398	-13399	-13471	-13470	MG	0.00	0.00	110.00
3630	-13540	-13541	-13607	-13606	MG	0.00	0.00	110.00
3630	-13672	-13673	-13739	-13738	MG	0.00	0.00	110.00
3630	-12376	-12375	-12441	-12442	MG	0.00	0.00	110.00

3630	-12442	-12441	-12528	-12529	MG	0.00	0.00	110.00
3630	-12528	-12547	-12604	-12605	MG	0.00	0.00	110.00
3630	-15658	-15657	-15723	-15724	MG	0.00	0.00	110.00
3630	-12679	-12678	-12749	-12750	MG	0.00	0.00	110.00
3630	-15790	-15789	-15855	-15856	MG	0.00	0.00	110.00
3630	-12820	-12819	-12889	-12890	MG	0.00	0.00	110.00
3630	-15005	-15006	-15072	-15071	MG	0.00	0.00	110.00
3630	-14873	-14874	-14940	-14939	MG	0.00	0.00	110.00
3630	-15395	-15394	-15460	-15461	MG	0.00	0.00	110.00
3630	-13116	-13127	-13192	-13193	MG	0.00	0.00	110.00
3630	-13193	-13192	-13258	-13259	MG	0.00	0.00	110.00
3630	-12529	-12528	-12605	-12606	MG	0.00	0.00	110.00
3630	-12606	-12605	-12679	-12680	MG	0.00	0.00	110.00
3630	-12680	-12679	-12750	-12751	MG	0.00	0.00	110.00
3630	-12751	-12750	-12820	-12821	MG	0.00	0.00	110.00
3630	-15856	-15923	-15924	-15857	MG	0.00	0.00	110.00
3630	-15264	-15263	-15329	-15330	MG	0.00	0.00	110.00
3630	-15330	-15329	-15395	-15396	MG	0.00	0.00	110.00
3630	-15396	-15395	-15461	-15462	MG	0.00	0.00	110.00
3630	-13128	-13116	-13193	-13194	MG	0.00	0.00	110.00
3630	-15528	-15527	-15593	-15594	MG	0.00	0.00	110.00
3630	-15594	-15593	-15659	-15660	MG	0.00	0.00	110.00
3630	-11135	-11134	-11200	-11201	MG	0.00	0.00	110.00
3630	-15726	-15725	-15791	-15792	MG	0.00	0.00	110.00
3630	-11267	-11266	-11338	-11339	MG	0.00	0.00	110.00
3630	-11339	-11338	-11404	-11405	MG	0.00	0.00	110.00
3630	-15265	-15264	-15330	-15331	MG	0.00	0.00	110.00
3630	-15331	-15330	-15396	-15397	MG	0.00	0.00	110.00
3630	-15932	-15931	-15997	-15998	MG	0.00	0.00	110.00
3630	-11615	-11614	-11686	-11687	MG	0.00	0.00	110.00
3630	-11687	-11686	-11752	-11753	MG	0.00	0.00	110.00
3630	-11071	-11070	-11135	-11136	MG	0.00	0.00	110.00
3630	-11136	-11135	-11201	-11202	MG	0.00	0.00	110.00
3630	-11202	-11201	-11267	-11268	MG	0.00	0.00	110.00
3630	-15793	-15792	-15858	-15859	MG	0.00	0.00	110.00
3630	-15859	-15858	-15925	-15926	MG	0.00	0.00	110.00
3630	-11406	-11405	-11475	-11476	MG	0.00	0.00	110.00
3630	-11476	-11475	-11545	-11546	MG	0.00	0.00	110.00
3630	-11546	-11545	-11615	-11616	MG	0.00	0.00	110.00
3630	-11616	-11615	-11687	-11688	MG	0.00	0.00	110.00
3630	-11688	-11687	-11753	-11754	MG	0.00	0.00	110.00
3630	-11824	-11887	-11888	-11825	MG	0.00	0.00	110.00
3630	-11887	-11982	-11939	-11888	MG	0.00	0.00	110.00
3630	-11982	-12036	-12067	-11939	MG	0.00	0.00	110.00
3630	-10494	-10610	-10552	-10495	MG	0.00	0.00	110.00
3630	-12162	-12240	-12241	-12114	MG	0.00	0.00	110.00
3630	-15267	-15266	-15332	-15333	MG	0.00	0.00	110.00
3630	-15333	-15332	-15398	-15399	MG	0.00	0.00	110.00
3630	-15399	-15398	-15464	-15465	MG	0.00	0.00	110.00
3630	-12446	-12532	-12533	-12447	MG	0.00	0.00	110.00
3630	-15531	-15530	-15596	-15597	MG	0.00	0.00	110.00
3630	-11825	-11888	-11898	-11826	MG	0.00	0.00	110.00
3630	-11888	-11939	-11940	-11898	MG	0.00	0.00	110.00
3630	-11939	-12067	-12053	-11940	MG	0.00	0.00	110.00
3630	-12067	-12114	-12163	-12053	MG	0.00	0.00	110.00
3630	-12114	-12241	-12242	-12163	MG	0.00	0.00	110.00
3630	-12241	-12313	-12314	-12242	MG	0.00	0.00	110.00
3630	-12313	-12381	-12382	-12314	MG	0.00	0.00	110.00
3630	-12381	-12447	-12448	-12382	MG	0.00	0.00	110.00
3630	-15466	-15465	-15531	-15532	MG	0.00	0.00	110.00
3630	-15532	-15531	-15597	-15598	MG	0.00	0.00	110.00
3630	-13333	-13400	-13401	-13334	MG	0.00	0.00	110.00
3630	-15664	-15663	-15729	-15730	MG	0.00	0.00	110.00
3630	-15730	-15729	-15795	-15796	MG	0.00	0.00	110.00
3630	-15796	-15795	-15861	-15862	MG	0.00	0.00	110.00
3630	-15862	-15861	-15928	-15929	MG	0.00	0.00	110.00
3630	-15269	-15268	-15334	-15335	MG	0.00	0.00	110.00
3630	-15335	-15334	-15400	-15401	MG	0.00	0.00	110.00
3630	-13806	-13872	-13873	-13807	MG	0.00	0.00	110.00
3630	-13872	-13940	-13941	-13873	MG	0.00	0.00	110.00
3630	-13265	-13334	-13335	-13266	MG	0.00	0.00	110.00
3630	-13334	-13401	-13402	-13335	MG	0.00	0.00	110.00
3630	-13401	-13473	-13474	-13402	MG	0.00	0.00	110.00
3630	-15731	-15730	-15796	-15797	MG	0.00	0.00	110.00
3630	-15797	-15796	-15862	-15863	MG	0.00	0.00	110.00
3630	-15863	-15862	-15929	-15930	MG	0.00	0.00	110.00
3630	-13675	-13741	-13742	-13676	MG	0.00	0.00	110.00
3630	-13741	-13807	-13808	-13742	MG	0.00	0.00	110.00
3630	-13807	-13873	-13874	-13808	MG	0.00	0.00	110.00

3630	-13873	-13941	-13942	-13874	MG	0.00	0.00	110.00
3630	-10294	-10365	-10375	-10295	MG	0.00	0.00	110.00
3630	-15600	-15599	-15665	-15666	MG	0.00	0.00	110.00
3630	-15666	-15665	-15731	-15732	MG	0.00	0.00	110.00
3630	-10504	-10591	-10553	-10505	MG	0.00	0.00	110.00
3630	-10591	-10705	-10706	-10553	MG	0.00	0.00	110.00
3630	-10705	-10790	-10791	-10706	MG	0.00	0.00	110.00
3630	-10790	-10861	-10862	-10791	MG	0.00	0.00	110.00
3630	-10861	-10932	-10933	-10862	MG	0.00	0.00	110.00
3630	-16330	-16331	-16397	-16396	MG	0.00	0.00	110.00
3630	-10997	-11075	-11076	-10998	MG	0.00	0.00	110.00
3630	-10295	-10375	-10376	3502	MG	0.00	0.00	110.00
3630	-16198	-16199	-16265	-16264	MG	0.00	0.00	110.00
3630	-15345	-15344	-15410	-15411	MG	0.00	0.00	110.00
3630	-15411	-15410	-15476	-15477	MG	0.00	0.00	110.00
3630	-15477	-15476	-15542	-15543	MG	0.00	0.00	110.00
3630	-15543	-15542	-15608	-15609	MG	0.00	0.00	110.00
3630	-15609	-15608	-15674	-15675	MG	0.00	0.00	110.00
3630	-15675	-15674	-15740	-15741	MG	0.00	0.00	110.00
3630	-15741	-15740	-15806	-15807	MG	0.00	0.00	110.00
3630	-15807	-15806	-15872	-15873	MG	0.00	0.00	110.00
3630	-15873	-15872	-15939	-15940	MG	0.00	0.00	110.00
3630	-15280	-15279	-15345	-15346	MG	0.00	0.00	110.00
3630	-15346	-15345	-15411	-15412	MG	0.00	0.00	110.00
3630	-15412	-15411	-15477	-15478	MG	0.00	0.00	110.00
3630	-15478	-15477	-15543	-15544	MG	0.00	0.00	110.00
3630	-15544	-15543	-15609	-15610	MG	0.00	0.00	110.00
3630	-15610	-15609	-15675	-15676	MG	0.00	0.00	110.00
3630	-15676	-15675	-15741	-15742	MG	0.00	0.00	110.00
3630	-15742	-15741	-15807	-15808	MG	0.00	0.00	110.00
3630	-15808	-15807	-15873	-15874	MG	0.00	0.00	110.00
3630	-15874	-15873	-15940	-15941	MG	0.00	0.00	110.00
3630	-15281	-15280	-15346	-15347	MG	0.00	0.00	110.00
3630	-15347	-15346	-15412	-15413	MG	0.00	0.00	110.00
3630	-15413	-15412	-15478	-15479	MG	0.00	0.00	110.00
3630	-15479	-15478	-15544	-15545	MG	0.00	0.00	110.00
3630	-15545	-15544	-15610	-15611	MG	0.00	0.00	110.00
3630	-15611	-15610	-15676	-15677	MG	0.00	0.00	110.00
3630	-15677	-15676	-15742	-15743	MG	0.00	0.00	110.00
3630	-15743	-15742	-15808	-15809	MG	0.00	0.00	110.00
3630	-15809	-15808	-15874	-15875	MG	0.00	0.00	110.00
3630	-15875	-15874	-15941	-15942	MG	0.00	0.00	110.00
3630	-15282	-15281	-15347	-15348	MG	0.00	0.00	110.00
3630	-15348	-15347	-15413	-15414	MG	0.00	0.00	110.00
3630	-15414	-15413	-15479	-15480	MG	0.00	0.00	110.00
3630	-15480	-15479	-15545	-15546	MG	0.00	0.00	110.00
3630	-15546	-15545	-15611	-15612	MG	0.00	0.00	110.00
3630	-15612	-15611	-15677	-15678	MG	0.00	0.00	110.00
3630	-15678	-15677	-15743	-15744	MG	0.00	0.00	110.00
3630	-15744	-15743	-15809	-15810	MG	0.00	0.00	110.00
3630	-15810	-15809	-15875	-15876	MG	0.00	0.00	110.00
3630	-15876	-15875	-15942	-15943	MG	0.00	0.00	110.00
3630	-15283	-15282	-15348	-15349	MG	0.00	0.00	110.00
3630	-15349	-15348	-15414	-15415	MG	0.00	0.00	110.00
3630	-15415	-15414	-15480	-15481	MG	0.00	0.00	110.00
3630	-15481	-15480	-15546	-15547	MG	0.00	0.00	110.00
3630	-15547	-15546	-15612	-15613	MG	0.00	0.00	110.00
3630	-15613	-15612	-15678	-15679	MG	0.00	0.00	110.00
3630	-15679	-15678	-15744	-15745	MG	0.00	0.00	110.00
3630	-15745	-15744	-15810	-15811	MG	0.00	0.00	110.00
3630	-15811	-15810	-15876	-15877	MG	0.00	0.00	110.00
3630	-15877	-15876	-15943	-15944	MG	0.00	0.00	110.00
3630	-15284	-15283	-15349	-15350	MG	0.00	0.00	110.00
3630	-15350	-15349	-15415	-15416	MG	0.00	0.00	110.00
3630	-15416	-15415	-15481	-15482	MG	0.00	0.00	110.00
3630	-15482	-15481	-15547	-15548	MG	0.00	0.00	110.00
3630	-15548	-15547	-15613	-15614	MG	0.00	0.00	110.00
3630	-15614	-15613	-15679	-15680	MG	0.00	0.00	110.00
3630	-15680	-15679	-15745	-15746	MG	0.00	0.00	110.00
3630	-15746	-15745	-15811	-15812	MG	0.00	0.00	110.00
3630	-15812	-15811	-15877	-15878	MG	0.00	0.00	110.00
3630	-15878	-15877	-15944	-15945	MG	0.00	0.00	110.00
3630	-15285	-15284	-15350	-15351	MG	0.00	0.00	110.00
3630	-15351	-15350	-15416	-15417	MG	0.00	0.00	110.00
3630	-15417	-15416	-15482	-15483	MG	0.00	0.00	110.00
3630	-15483	-15482	-15548	-15549	MG	0.00	0.00	110.00
3630	-15549	-15548	-15614	-15615	MG	0.00	0.00	110.00
3630	-15615	-15614	-15680	-15681	MG	0.00	0.00	110.00
3630	-15681	-15680	-15746	-15747	MG	0.00	0.00	110.00

3630	-15747	-15746	-15812	-15813	MG	0.00	0.00	110.00
3630	-15813	-15812	-15878	-15879	MG	0.00	0.00	110.00
3630	-15879	-15878	-15945	-15946	MG	0.00	0.00	110.00
3630	-15286	-15285	-15351	-15352	MG	0.00	0.00	110.00
3630	-15352	-15351	-15417	-15418	MG	0.00	0.00	110.00
3630	-15418	-15417	-15483	-15484	MG	0.00	0.00	110.00
3630	-15484	-15483	-15549	-15550	MG	0.00	0.00	110.00
3630	-15550	-15549	-15615	-15616	MG	0.00	0.00	110.00
3630	-15616	-15615	-15681	-15682	MG	0.00	0.00	110.00
3630	-15682	-15681	-15747	-15748	MG	0.00	0.00	110.00
3630	-15748	-15747	-15813	-15814	MG	0.00	0.00	110.00
3630	-15814	-15813	-15879	-15880	MG	0.00	0.00	110.00
3630	-15880	-15879	-15946	-15947	MG	0.00	0.00	110.00
3630	-15287	-15286	-15352	-15353	MG	0.00	0.00	110.00
3630	-15353	-15352	-15418	-15419	MG	0.00	0.00	110.00
3630	-15419	-15418	-15484	-15485	MG	0.00	0.00	110.00
3630	-15485	-15484	-15550	-15551	MG	0.00	0.00	110.00
3630	-15551	-15550	-15616	-15617	MG	0.00	0.00	110.00
3630	-15617	-15616	-15682	-15683	MG	0.00	0.00	110.00
3630	-15683	-15682	-15748	-15749	MG	0.00	0.00	110.00
3630	-15749	-15748	-15814	-15815	MG	0.00	0.00	110.00
3630	-15815	-15814	-15880	-15881	MG	0.00	0.00	110.00
3630	-15881	-15880	-15947	-15948	MG	0.00	0.00	110.00
3630	-15288	-15287	-15353	-15354	MG	0.00	0.00	110.00
3630	-15354	-15353	-15419	-15420	MG	0.00	0.00	110.00
3630	-15420	-15419	-15485	-15486	MG	0.00	0.00	110.00
3630	-15486	-15485	-15551	-15552	MG	0.00	0.00	110.00
3630	-15552	-15551	-15617	-15618	MG	0.00	0.00	110.00
3630	-15618	-15617	-15683	-15684	MG	0.00	0.00	110.00
3630	-15684	-15683	-15749	-15750	MG	0.00	0.00	110.00
3630	-15750	-15749	-15815	-15816	MG	0.00	0.00	110.00
3630	-15816	-15815	-15881	-15882	MG	0.00	0.00	110.00
3630	-15882	-15881	-15948	-15949	MG	0.00	0.00	110.00
3630	-15289	-15288	-15354	-15355	MG	0.00	0.00	110.00
3630	-15355	-15354	-15420	-15421	MG	0.00	0.00	110.00
3630	-15421	-15420	-15486	-15487	MG	0.00	0.00	110.00
3630	-15487	-15486	-15552	-15553	MG	0.00	0.00	110.00
3630	-15553	-15552	-15618	-15619	MG	0.00	0.00	110.00
3630	-15619	-15618	-15684	-15685	MG	0.00	0.00	110.00
3630	-15685	-15684	-15750	-15751	MG	0.00	0.00	110.00
3630	-15751	-15750	-15816	-15817	MG	0.00	0.00	110.00
3630	-15817	-15816	-15882	-15883	MG	0.00	0.00	110.00
3630	-15883	-15882	-15949	-15950	MG	0.00	0.00	110.00
3630	-15290	-15289	-15355	-15356	MG	0.00	0.00	110.00
3630	-15356	-15355	-15421	-15422	MG	0.00	0.00	110.00
3630	-15422	-15421	-15487	-15488	MG	0.00	0.00	110.00
3630	-15488	-15487	-15553	-15554	MG	0.00	0.00	110.00
3630	-15554	-15553	-15619	-15620	MG	0.00	0.00	110.00
3630	-15620	-15619	-15685	-15686	MG	0.00	0.00	110.00
3630	-15686	-15685	-15751	-15752	MG	0.00	0.00	110.00
3630	-15752	-15751	-15817	-15818	MG	0.00	0.00	110.00
3630	-15818	-15817	-15883	-15884	MG	0.00	0.00	110.00
3630	-15884	-15883	-15950	-15951	MG	0.00	0.00	110.00
3630	-15940	-15939	-16005	-16006	MG	0.00	0.00	110.00
3630	-16006	-16005	-16071	-16072	MG	0.00	0.00	110.00
3630	-16072	-16071	-16137	-16138	MG	0.00	0.00	110.00
3630	-16138	-16137	-16203	-16204	MG	0.00	0.00	110.00
3630	-16204	-16203	-16269	-16270	MG	0.00	0.00	110.00
3630	-16270	-16269	-16335	-16336	MG	0.00	0.00	110.00
3630	-16336	-16335	-16401	-16402	MG	0.00	0.00	110.00
3630	-10361	-10362	-10424	-10423	MG	0.00	0.00	110.00
3630	-10362	-10363	-10425	-10424	MG	0.00	0.00	110.00
3630	-14012	-14011	-14065	-14081	MG	0.00	0.00	110.00
3630	-15941	-15940	-16006	-16007	MG	0.00	0.00	110.00
3630	-16007	-16006	-16072	-16073	MG	0.00	0.00	110.00
3630	-16073	-16072	-16138	-16139	MG	0.00	0.00	110.00
3630	-16139	-16138	-16204	-16205	MG	0.00	0.00	110.00
3630	-16205	-16204	-16270	-16271	MG	0.00	0.00	110.00
3630	-16271	-16270	-16336	-16337	MG	0.00	0.00	110.00
3630	-16337	-16336	-16402	-16403	MG	0.00	0.00	110.00
3630	-11740	-11806	-11807	-11741	MG	0.00	0.00	110.00
3630	-10290	-10289	-10360	-10361	MG	0.00	0.00	110.00
3630	-11758	-11824	-11825	-11759	MG	0.00	0.00	110.00
3630	-15942	-15941	-16007	-16008	MG	0.00	0.00	110.00
3630	-16008	-16007	-16073	-16074	MG	0.00	0.00	110.00
3630	-16074	-16073	-16139	-16140	MG	0.00	0.00	110.00
3630	-16140	-16139	-16205	-16206	MG	0.00	0.00	110.00
3630	-16206	-16205	-16271	-16272	MG	0.00	0.00	110.00
3630	-16272	-16271	-16337	-16338	MG	0.00	0.00	110.00



3630	-16338	-16337	-16403	-16404	MG	0.00	0.00	110.00
3630	-15277	-15276	-15342	-15343	MG	0.00	0.00	110.00
3630	-15343	-15342	-15408	-15409	MG	0.00	0.00	110.00
3630	-15409	-15408	-15474	-15475	MG	0.00	0.00	110.00
3630	-15943	-15942	-16008	-16009	MG	0.00	0.00	110.00
3630	-16009	-16008	-16074	-16075	MG	0.00	0.00	110.00
3630	-16075	-16074	-16140	-16141	MG	0.00	0.00	110.00
3630	-16141	-16140	-16206	-16207	MG	0.00	0.00	110.00
3630	-16207	-16206	-16272	-16273	MG	0.00	0.00	110.00
3630	-16273	-16272	-16338	-16339	MG	0.00	0.00	110.00
3630	-16339	-16338	-16404	-16405	MG	0.00	0.00	110.00
3630	-10441	-10440	-10498	-10499	MG	0.00	0.00	110.00
3630	-10500	-10499	-10589	-10590	MG	0.00	0.00	110.00
3630	-10499	-10498	-10588	-10589	MG	0.00	0.00	110.00
3630	-15944	-15943	-16009	-16010	MG	0.00	0.00	110.00
3630	-16010	-16009	-16075	-16076	MG	0.00	0.00	110.00
3630	-16076	-16075	-16141	-16142	MG	0.00	0.00	110.00
3630	-16142	-16141	-16207	-16208	MG	0.00	0.00	110.00
3630	-16208	-16207	-16273	-16274	MG	0.00	0.00	110.00
3630	-16274	-16273	-16339	-16340	MG	0.00	0.00	110.00
3630	-16340	-16339	-16405	-16406	MG	0.00	0.00	110.00
3630	-10843	-10842	-10927	-10928	MG	0.00	0.00	110.00
3630	-10893	-10928	-10992	-10993	MG	0.00	0.00	110.00
3630	-10928	-10927	-10991	-10992	MG	0.00	0.00	110.00
3630	-12525	-12598	-12599	-12514	MG	0.00	0.00	110.00
3630	-16011	-16010	-16076	-16077	MG	0.00	0.00	110.00
3630	-16077	-16076	-16142	-16143	MG	0.00	0.00	110.00
3630	-16143	-16142	-16208	-16209	MG	0.00	0.00	110.00
3630	-16209	-16208	-16274	-16275	MG	0.00	0.00	110.00
3630	-16275	-16274	-16340	-16341	MG	0.00	0.00	110.00
3630	-16341	-16340	-16406	-16407	MG	0.00	0.00	110.00
3630	-13603	-13602	-13668	-13669	MG	0.00	0.00	110.00
3630	-13669	-13668	-13734	-13735	MG	0.00	0.00	110.00
3630	-13735	-13734	-13800	-13801	MG	0.00	0.00	110.00
3630	-15946	-15945	-16011	-16012	MG	0.00	0.00	110.00
3630	-16012	-16011	-16077	-16078	MG	0.00	0.00	110.00
3630	-16078	-16077	-16143	-16144	MG	0.00	0.00	110.00
3630	-16144	-16143	-16209	-16210	MG	0.00	0.00	110.00
3630	-16210	-16209	-16275	-16276	MG	0.00	0.00	110.00
3630	-16276	-16275	-16341	-16342	MG	0.00	0.00	110.00
3630	-16342	-16341	-16407	-16408	MG	0.00	0.00	110.00
3630	-13604	-13603	-13669	-13670	MG	0.00	0.00	110.00
3630	-13670	-13669	-13735	-13736	MG	0.00	0.00	110.00
3630	-13736	-13735	-13801	-13802	MG	0.00	0.00	110.00
3630	-15947	-15946	-16012	-16013	MG	0.00	0.00	110.00
3630	-16013	-16012	-16078	-16079	MG	0.00	0.00	110.00
3630	-16079	-16078	-16144	-16145	MG	0.00	0.00	110.00
3630	-16145	-16144	-16210	-16211	MG	0.00	0.00	110.00
3630	-16211	-16210	-16276	-16277	MG	0.00	0.00	110.00
3630	-16277	-16276	-16342	-16343	MG	0.00	0.00	110.00
3630	-16343	-16342	-16408	-16409	MG	0.00	0.00	110.00
3630	-12119	-12160	-12234	-12235	MG	0.00	0.00	110.00
3630	-12235	-12234	-12306	-12307	MG	0.00	0.00	110.00
3630	-12307	-12306	-12374	-12375	MG	0.00	0.00	110.00
3630	-15948	-15947	-16013	-16014	MG	0.00	0.00	110.00
3630	-16014	-16013	-16079	-16080	MG	0.00	0.00	110.00
3630	-16080	-16079	-16145	-16146	MG	0.00	0.00	110.00
3630	-16146	-16145	-16211	-16212	MG	0.00	0.00	110.00
3630	-16212	-16211	-16277	-16278	MG	0.00	0.00	110.00
3630	-16278	-16277	-16343	-16344	MG	0.00	0.00	110.00
3630	-16344	-16343	-16409	-16410	MG	0.00	0.00	110.00
3630	-12113	-12119	-12235	-12236	MG	0.00	0.00	110.00
3630	-12236	-12235	-12307	-12308	MG	0.00	0.00	110.00
3630	-12308	-12307	-12375	-12376	MG	0.00	0.00	110.00
3630	-15949	-15948	-16014	-16015	MG	0.00	0.00	110.00
3630	-16015	-16014	-16080	-16081	MG	0.00	0.00	110.00
3630	-16081	-16080	-16146	-16147	MG	0.00	0.00	110.00
3630	-16147	-16146	-16212	-16213	MG	0.00	0.00	110.00
3630	-16213	-16212	-16278	-16279	MG	0.00	0.00	110.00
3630	-16279	-16278	-16344	-16345	MG	0.00	0.00	110.00
3630	-16345	-16344	-16410	-16411	MG	0.00	0.00	110.00
3630	-12890	-12889	-12972	-12962	MG	0.00	0.00	110.00
3630	-12962	-12972	-13050	-13051	MG	0.00	0.00	110.00
3630	-13051	-13050	-13127	-13116	MG	0.00	0.00	110.00
3630	-15950	-15949	-16015	-16016	MG	0.00	0.00	110.00
3630	-16016	-16015	-16081	-16082	MG	0.00	0.00	110.00
3630	-16082	-16081	-16147	-16148	MG	0.00	0.00	110.00
3630	-16148	-16147	-16213	-16214	MG	0.00	0.00	110.00
3630	-16214	-16213	-16279	-16280	MG	0.00	0.00	110.00

3630	-16280	-16279	-16345	-16346	MG	0.00	0.00	110.00
3630	-16346	-16345	-16411	-16412	MG	0.00	0.00	110.00
3630	-12891	-12890	-12962	-12973	MG	0.00	0.00	110.00
3630	-12973	-12962	-13051	-13052	MG	0.00	0.00	110.00
3630	-13052	-13051	-13116	-13128	MG	0.00	0.00	110.00
3630	-15951	-15950	-16016	-16017	MG	0.00	0.00	110.00
3630	-16017	-16016	-16082	-16083	MG	0.00	0.00	110.00
3630	-16083	-16082	-16148	-16149	MG	0.00	0.00	110.00
3630	-16149	-16148	-16214	-16215	MG	0.00	0.00	110.00
3630	-16215	-16214	-16280	-16281	MG	0.00	0.00	110.00
3630	-16281	-16280	-16346	-16347	MG	0.00	0.00	110.00
3630	-16347	-16346	-16412	-16413	MG	0.00	0.00	110.00
3630	-11405	-11404	-11474	-11475	MG	0.00	0.00	110.00
3630	-11475	-11474	-11544	-11545	MG	0.00	0.00	110.00
3630	-11545	-11544	-11614	-11615	MG	0.00	0.00	110.00
3630	-14614	-14613	-14681	-14682	MG	0.00	0.00	110.00
3630	-14682	-14681	-14747	-14748	MG	0.00	0.00	110.00
3630	-14748	-14747	-14813	-14814	MG	0.00	0.00	110.00
3630	-14814	-14813	-14879	-14880	MG	0.00	0.00	110.00
3630	-14880	-14879	-14945	-14946	MG	0.00	0.00	110.00
3630	-14946	-14945	-15011	-15012	MG	0.00	0.00	110.00
3630	-15012	-15011	-15077	-15078	MG	0.00	0.00	110.00
3630	-15078	-15077	-15147	-15130	MG	0.00	0.00	110.00
3630	-15130	-15147	-15211	-15212	MG	0.00	0.00	110.00
3630	-15212	-15211	-15278	-15279	MG	0.00	0.00	110.00
3630	-14615	-14614	-14682	-14683	MG	0.00	0.00	110.00
3630	-14683	-14682	-14748	-14749	MG	0.00	0.00	110.00
3630	-14749	-14748	-14814	-14815	MG	0.00	0.00	110.00
3630	-14815	-14814	-14880	-14881	MG	0.00	0.00	110.00
3630	-14881	-14880	-14946	-14947	MG	0.00	0.00	110.00
3630	-14947	-14946	-15012	-15013	MG	0.00	0.00	110.00
3630	-15013	-15012	-15078	-15079	MG	0.00	0.00	110.00
3630	-15079	-15078	-15130	-15148	MG	0.00	0.00	110.00
3630	-15148	-15130	-15212	-15213	MG	0.00	0.00	110.00
3630	-15213	-15212	-15279	-15280	MG	0.00	0.00	110.00
3630	-14616	-14615	-14683	-14684	MG	0.00	0.00	110.00
3630	-14684	-14683	-14749	-14750	MG	0.00	0.00	110.00
3630	-14750	-14749	-14815	-14816	MG	0.00	0.00	110.00
3630	-14816	-14815	-14881	-14882	MG	0.00	0.00	110.00
3630	-14882	-14881	-14947	-14948	MG	0.00	0.00	110.00
3630	-14948	-14947	-15013	-15014	MG	0.00	0.00	110.00
3630	-15014	-15013	-15079	-15080	MG	0.00	0.00	110.00
3630	-15080	-15079	-15148	-15149	MG	0.00	0.00	110.00
3630	-15149	-15148	-15213	-15214	MG	0.00	0.00	110.00
3630	-15214	-15213	-15280	-15281	MG	0.00	0.00	110.00
3630	-14617	-14616	-14684	-14685	MG	0.00	0.00	110.00
3630	-14685	-14684	-14750	-14751	MG	0.00	0.00	110.00
3630	-14751	-14750	-14816	-14817	MG	0.00	0.00	110.00
3630	-14817	-14816	-14882	-14883	MG	0.00	0.00	110.00
3630	-14883	-14882	-14948	-14949	MG	0.00	0.00	110.00
3630	-14949	-14948	-15014	-15015	MG	0.00	0.00	110.00
3630	-15015	-15014	-15080	-15081	MG	0.00	0.00	110.00
3630	-15081	-15080	-15149	-15150	MG	0.00	0.00	110.00
3630	-15150	-15149	-15214	-15215	MG	0.00	0.00	110.00
3630	-15215	-15214	-15281	-15282	MG	0.00	0.00	110.00
3630	-14618	-14617	-14685	-14686	MG	0.00	0.00	110.00
3630	-14686	-14685	-14751	-14752	MG	0.00	0.00	110.00
3630	-14752	-14751	-14817	-14818	MG	0.00	0.00	110.00
3630	-14818	-14817	-14883	-14884	MG	0.00	0.00	110.00
3630	-14884	-14883	-14949	-14950	MG	0.00	0.00	110.00
3630	-14950	-14949	-15015	-15016	MG	0.00	0.00	110.00
3630	-15016	-15015	-15081	-15082	MG	0.00	0.00	110.00
3630	-15082	-15081	-15150	-15151	MG	0.00	0.00	110.00
3630	-15151	-15150	-15215	-15216	MG	0.00	0.00	110.00
3630	-15216	-15215	-15282	-15283	MG	0.00	0.00	110.00
3630	-14619	-14618	-14686	-14687	MG	0.00	0.00	110.00
3630	-14687	-14686	-14752	-14753	MG	0.00	0.00	110.00
3630	-14753	-14752	-14818	-14819	MG	0.00	0.00	110.00
3630	-14819	-14818	-14884	-14885	MG	0.00	0.00	110.00
3630	-14885	-14884	-14950	-14951	MG	0.00	0.00	110.00
3630	-14951	-14950	-15016	-15017	MG	0.00	0.00	110.00
3630	-15017	-15016	-15082	-15083	MG	0.00	0.00	110.00
3630	-15083	-15082	-15151	-15097	MG	0.00	0.00	110.00
3630	-15097	-15151	-15216	-15217	MG	0.00	0.00	110.00
3630	-15217	-15216	-15283	-15284	MG	0.00	0.00	110.00
3630	-14620	-14619	-14687	-14688	MG	0.00	0.00	110.00
3630	-14688	-14687	-14753	-14754	MG	0.00	0.00	110.00
3630	-14754	-14753	-14819	-14820	MG	0.00	0.00	110.00
3630	-14820	-14819	-14885	-14886	MG	0.00	0.00	110.00

3630	-14886	-14885	-14951	-14952	MG	0.00	0.00	110.00
3630	-14952	-14951	-15017	-15018	MG	0.00	0.00	110.00
3630	-15018	-15017	-15083	-15084	MG	0.00	0.00	110.00
3630	-15084	-15083	-15097	-15152	MG	0.00	0.00	110.00
3630	-15152	-15097	-15217	-15218	MG	0.00	0.00	110.00
3630	-15218	-15217	-15284	-15285	MG	0.00	0.00	110.00
3630	-14621	-14620	-14688	-14689	MG	0.00	0.00	110.00
3630	-14689	-14688	-14754	-14755	MG	0.00	0.00	110.00
3630	-14755	-14754	-14820	-14821	MG	0.00	0.00	110.00
3630	-14821	-14820	-14886	-14887	MG	0.00	0.00	110.00
3630	-14887	-14886	-14952	-14953	MG	0.00	0.00	110.00
3630	-14953	-14952	-15018	-15019	MG	0.00	0.00	110.00
3630	-15019	-15018	-15084	-15085	MG	0.00	0.00	110.00
3630	-15085	-15084	-15152	-15153	MG	0.00	0.00	110.00
3630	-15153	-15152	-15218	-15219	MG	0.00	0.00	110.00
3630	-15219	-15218	-15285	-15286	MG	0.00	0.00	110.00
3630	-14622	-14621	-14689	-14690	MG	0.00	0.00	110.00
3630	-14690	-14689	-14755	-14756	MG	0.00	0.00	110.00
3630	-14756	-14755	-14821	-14822	MG	0.00	0.00	110.00
3630	-14822	-14821	-14887	-14888	MG	0.00	0.00	110.00
3630	-14888	-14887	-14953	-14954	MG	0.00	0.00	110.00
3630	-14954	-14953	-15019	-15020	MG	0.00	0.00	110.00
3630	-15020	-15019	-15085	-15086	MG	0.00	0.00	110.00
3630	-15086	-15085	-15153	-15154	MG	0.00	0.00	110.00
3630	-15154	-15153	-15219	-15220	MG	0.00	0.00	110.00
3630	-15220	-15219	-15286	-15287	MG	0.00	0.00	110.00
3630	-14623	-14622	-14690	-14691	MG	0.00	0.00	110.00
3630	-14691	-14690	-14756	-14757	MG	0.00	0.00	110.00
3630	-14757	-14756	-14822	-14823	MG	0.00	0.00	110.00
3630	-14823	-14822	-14888	-14889	MG	0.00	0.00	110.00
3630	-14889	-14888	-14954	-14955	MG	0.00	0.00	110.00
3630	-14955	-14954	-15020	-15021	MG	0.00	0.00	110.00
3630	-15021	-15020	-15086	-15087	MG	0.00	0.00	110.00
3630	-15087	-15086	-15154	-15155	MG	0.00	0.00	110.00
3630	-15155	-15154	-15220	-15221	MG	0.00	0.00	110.00
3630	-15221	-15220	-15287	-15288	MG	0.00	0.00	110.00
3630	-14624	-14623	-14691	-14692	MG	0.00	0.00	110.00
3630	-11133	-11199	-11200	-11134	MG	0.00	0.00	110.00
3630	-14758	-14757	-14823	-14824	MG	0.00	0.00	110.00
3630	-14824	-14823	-14889	-14890	MG	0.00	0.00	110.00
3630	-14890	-14889	-14955	-14956	MG	0.00	0.00	110.00
3630	-11403	-11473	-11474	-11404	MG	0.00	0.00	110.00
3630	-11473	-11543	-11544	-11474	MG	0.00	0.00	110.00
3630	-11543	-11613	-11614	-11544	MG	0.00	0.00	110.00
3630	-11613	-11685	-11686	-11614	MG	0.00	0.00	110.00
3630	-11685	-11751	-11752	-11686	MG	0.00	0.00	110.00
3630	-14625	-14624	-14692	-14693	MG	0.00	0.00	110.00
3630	-14693	-14692	-14758	-14759	MG	0.00	0.00	110.00
3630	-10506	-10541	-10592	-10507	MG	0.00	0.00	110.00
3630	-10541	-10707	-10708	-10592	MG	0.00	0.00	110.00
3630	-10707	-10792	-10793	-10708	MG	0.00	0.00	110.00
3630	-10792	-10844	-10863	-10793	MG	0.00	0.00	110.00
3630	-10844	-10934	-10894	-10863	MG	0.00	0.00	110.00
3630	-10934	-10999	-11000	-10894	MG	0.00	0.00	110.00
3630	-10999	-11077	-11078	-11000	MG	0.00	0.00	110.00
3630	-15223	-15222	-15289	-15290	MG	0.00	0.00	110.00
3630	-10366	-10427	-10428	-10367	MG	0.00	0.00	110.00
3630	-13953	-13952	-14022	-14023	MG	0.00	0.00	110.00
3630	-10507	-10592	-10569	-10508	MG	0.00	0.00	110.00
3630	-10592	-10708	-10709	-10569	MG	0.00	0.00	110.00
3630	-10708	-10793	-10794	-10709	MG	0.00	0.00	110.00
3630	-13949	-13948	-14018	-14019	MG	0.00	0.00	110.00
3630	-13948	-13947	-14017	-14018	MG	0.00	0.00	110.00
3630	-13947	-13946	-14016	-14017	MG	0.00	0.00	110.00
3630	-13946	-13945	-14015	-14016	MG	0.00	0.00	110.00
3630	-13945	-13944	-14014	-14015	MG	0.00	0.00	110.00
3630	-10367	-10428	-10429	-10368	MG	0.00	0.00	110.00
3630	-10428	-10508	-10509	-10429	MG	0.00	0.00	110.00
3630	-10508	-10569	-10593	-10509	MG	0.00	0.00	110.00
3630	-14023	-14022	-14089	-14090	MG	0.00	0.00	110.00
3630	-14022	-14021	-14088	-14089	MG	0.00	0.00	110.00
3630	-14021	-14020	-14087	-14088	MG	0.00	0.00	110.00
3630	-14020	-14019	-14086	-14087	MG	0.00	0.00	110.00
3630	-14019	-14018	-14085	-14086	MG	0.00	0.00	110.00
3630	-14018	-14017	-14084	-14085	MG	0.00	0.00	110.00
3630	-14017	-14016	-14083	-14084	MG	0.00	0.00	110.00
3630	-14016	-14015	-14067	-14083	MG	0.00	0.00	110.00
3630	-14015	-14014	-14082	-14067	MG	0.00	0.00	110.00
3630	-14014	-14013	-14066	-14082	MG	0.00	0.00	110.00

3630	-10593	-10710	-10711	-10619	MG	0.00	0.00	110.00
3630	-10710	-10795	-10796	-10711	MG	0.00	0.00	110.00
3630	-10795	-10865	-10866	-10796	MG	0.00	0.00	110.00
3630	-14089	-14088	-14156	-14157	MG	0.00	0.00	110.00
3630	-14088	-14087	-14155	-14156	MG	0.00	0.00	110.00
3630	-14087	-14086	-14154	-14155	MG	0.00	0.00	110.00
3630	-10299	-10369	-10377	-10300	MG	0.00	0.00	110.00
3630	-10369	-10445	-10446	-10377	MG	0.00	0.00	110.00
3630	-10445	-10510	-10511	-10446	MG	0.00	0.00	110.00
3630	-10510	-10619	-10524	-10511	MG	0.00	0.00	110.00
3630	-10619	-10711	-10712	-10524	MG	0.00	0.00	110.00
3630	-14082	-14066	-14148	-14149	MG	0.00	0.00	110.00
3630	-14066	-14081	-14147	-14148	MG	0.00	0.00	110.00
3630	-10866	-10936	-10937	-10867	MG	0.00	0.00	110.00
3630	-10936	-11003	-11004	-10937	MG	0.00	0.00	110.00
3630	-11003	-11081	-11082	-11004	MG	0.00	0.00	110.00
3630	-10300	-10377	-10370	-10301	MG	0.00	0.00	110.00
3630	-14155	-14154	-14220	-14221	MG	0.00	0.00	110.00
3630	-10446	-10511	-10512	-10447	MG	0.00	0.00	110.00
3630	-10511	-10524	-10594	-10512	MG	0.00	0.00	110.00
3630	-14152	-14151	-14217	-14218	MG	0.00	0.00	110.00
3630	-14151	-14150	-14216	-14217	MG	0.00	0.00	110.00
3630	-10797	-10867	-10845	-10798	MG	0.00	0.00	110.00
3630	-10867	-10937	-10938	-10845	MG	0.00	0.00	110.00
3630	-10937	-11004	-11005	-10938	MG	0.00	0.00	110.00
3630	-11004	-11082	-11083	-11005	MG	0.00	0.00	110.00
3630	-14224	-14223	-14289	-14290	MG	0.00	0.00	110.00
3630	-14223	-14222	-14288	-14289	MG	0.00	0.00	110.00
3630	-14222	-14221	-14287	-14288	MG	0.00	0.00	110.00
3630	-14221	-14220	-14286	-14287	MG	0.00	0.00	110.00
3630	-14220	-14219	-14285	-14286	MG	0.00	0.00	110.00
3630	-10713	-10798	-10799	-10714	MG	0.00	0.00	110.00
3630	-10798	-10845	-10868	-10799	MG	0.00	0.00	110.00
3630	-10845	-10938	-10939	-10868	MG	0.00	0.00	110.00
3630	-14216	-14215	-14281	-14282	MG	0.00	0.00	110.00
3630	-14215	-14214	-14280	-14281	MG	0.00	0.00	110.00
3630	-14214	-14213	-14279	-14280	MG	0.00	0.00	110.00
3630	-14291	-14290	-14356	-14357	MG	0.00	0.00	110.00
3630	-14290	-14289	-14355	-14356	MG	0.00	0.00	110.00
3630	-14289	-14288	-14354	-14355	MG	0.00	0.00	110.00
3630	-14288	-14287	-14353	-14354	MG	0.00	0.00	110.00
3630	-14287	-14286	-14352	-14353	MG	0.00	0.00	110.00
3630	-14286	-14285	-14351	-14352	MG	0.00	0.00	110.00
3630	-14285	-14284	-14350	-14351	MG	0.00	0.00	110.00
3630	-10939	-11006	-11007	-10940	MG	0.00	0.00	110.00
3630	-11006	-11084	-11039	-11007	MG	0.00	0.00	110.00
3630	-14282	-14281	-14347	-14348	MG	0.00	0.00	110.00
3630	-14281	-14280	-14346	-14347	MG	0.00	0.00	110.00
3630	-14280	-14279	-14345	-14346	MG	0.00	0.00	110.00
3630	-14357	-14356	-14422	-14423	MG	0.00	0.00	110.00
3630	-10596	-10715	-10716	-10626	MG	0.00	0.00	110.00
3630	-14355	-14354	-14420	-14421	MG	0.00	0.00	110.00
3630	-14354	-14353	-14419	-14420	MG	0.00	0.00	110.00
3630	-14353	-14352	-14418	-14419	MG	0.00	0.00	110.00
3630	-14352	-14351	-14417	-14418	MG	0.00	0.00	110.00
3630	-14351	-14350	-14416	-14417	MG	0.00	0.00	110.00
3630	-14350	-14349	-14415	-14416	MG	0.00	0.00	110.00
3630	-10379	-10448	-10449	-10372	MG	0.00	0.00	110.00
3630	-10448	-10515	-10516	-10449	MG	0.00	0.00	110.00
3630	-10515	-10626	-10597	-10516	MG	0.00	0.00	110.00
3630	-10626	-10716	-10686	-10597	MG	0.00	0.00	110.00
3630	-14423	-14422	-14488	-14489	MG	0.00	0.00	110.00
3630	-14422	-14421	-14487	-14488	MG	0.00	0.00	110.00
3630	-14421	-14420	-14486	-14487	MG	0.00	0.00	110.00
3630	-14420	-14419	-14485	-14486	MG	0.00	0.00	110.00
3630	-11008	-11085	-11086	-11009	MG	0.00	0.00	110.00
3630	-14418	-14417	-14483	-14484	MG	0.00	0.00	110.00
3630	-14417	-14416	-14482	-14483	MG	0.00	0.00	110.00
3630	-10449	-10516	-10517	-10450	MG	0.00	0.00	110.00
3630	-10516	-10597	-10598	-10517	MG	0.00	0.00	110.00
3630	-14414	-14413	-14479	-14480	MG	0.00	0.00	110.00
3630	-14413	-14412	-14478	-14479	MG	0.00	0.00	110.00
3630	-14412	-14411	-14477	-14478	MG	0.00	0.00	110.00
3630	-14489	-14488	-14554	-14555	MG	0.00	0.00	110.00
3630	-14488	-14487	-14553	-14554	MG	0.00	0.00	110.00
3630	-14487	-14486	-14552	-14553	MG	0.00	0.00	110.00
3630	-10306	-10380	-10381	-10307	MG	0.00	0.00	110.00
3630	-10380	-10450	-10451	-10381	MG	0.00	0.00	110.00
3630	-14484	-14483	-14549	-14550	MG	0.00	0.00	110.00

3630	-14483	-14482	-14548	-14549	MG	0.00	0.00	110.00
3630	-14482	-14481	-14547	-14548	MG	0.00	0.00	110.00
3630	-14481	-14480	-14546	-14547	MG	0.00	0.00	110.00
3630	-14480	-14479	-14545	-14546	MG	0.00	0.00	110.00
3630	-14479	-14478	-14544	-14545	MG	0.00	0.00	110.00
3630	-14478	-14477	-14543	-14544	MG	0.00	0.00	110.00
3630	-14555	-14554	-14624	-14625	MG	0.00	0.00	110.00
3630	-14554	-14553	-14623	-14624	MG	0.00	0.00	110.00
3630	-14553	-14552	-14622	-14623	MG	0.00	0.00	110.00
3630	-11898	-11940	-12011	-11889	MG	0.00	0.00	110.00
3630	-14551	-14550	-14620	-14621	MG	0.00	0.00	110.00
3630	-14550	-14549	-14619	-14620	MG	0.00	0.00	110.00
3630	-14549	-14548	-14618	-14619	MG	0.00	0.00	110.00
3630	-14548	-14547	-14617	-14618	MG	0.00	0.00	110.00
3630	-14547	-14546	-14616	-14617	MG	0.00	0.00	110.00
3630	-14546	-14545	-14615	-14616	MG	0.00	0.00	110.00
3630	-14545	-14544	-14614	-14615	MG	0.00	0.00	110.00
3630	-14544	-14543	-14613	-14614	MG	0.00	0.00	110.00
3630	-15325	-15324	-15390	-15391	MG	0.00	0.00	110.00
3630	-15391	-15390	-15456	-15457	MG	0.00	0.00	110.00
3630	-15457	-15456	-15522	-15523	MG	0.00	0.00	110.00
3630	-15523	-15522	-15588	-15589	MG	0.00	0.00	110.00
3630	-12146	-12243	-12243	-12164	MG	0.00	0.00	110.00
3630	-12243	-12315	-12316	-12244	MG	0.00	0.00	110.00
3630	-12315	-12383	-12384	-12316	MG	0.00	0.00	110.00
3630	-12383	-12449	-12450	-12384	MG	0.00	0.00	110.00
3630	-15853	-15852	-15919	-15920	MG	0.00	0.00	110.00
3630	-15260	-15259	-15325	-15326	MG	0.00	0.00	110.00
3630	-11828	-11890	-11899	-11829	MG	0.00	0.00	110.00
3630	-15392	-15391	-15457	-15458	MG	0.00	0.00	110.00
3630	-11983	-12022	-12101	-12012	MG	0.00	0.00	110.00
3630	-15524	-15523	-15589	-15590	MG	0.00	0.00	110.00
3630	-15590	-15589	-15655	-15656	MG	0.00	0.00	110.00
3630	-12244	-12316	-12317	-12245	MG	0.00	0.00	110.00
3630	-12316	-12384	-12385	-12317	MG	0.00	0.00	110.00
3630	-15788	-15787	-15853	-15854	MG	0.00	0.00	110.00
3630	-15854	-15853	-15920	-15921	MG	0.00	0.00	110.00
3630	-15261	-15260	-15326	-15327	MG	0.00	0.00	110.00
3630	-15327	-15326	-15392	-15393	MG	0.00	0.00	110.00
3630	-15393	-15392	-15458	-15459	MG	0.00	0.00	110.00
3630	-12012	-12101	-12054	-12013	MG	0.00	0.00	110.00
3630	-12101	-12171	-12115	-12054	MG	0.00	0.00	110.00
3630	-12171	-12245	-12246	-12115	MG	0.00	0.00	110.00
3630	-15657	-15656	-15722	-15723	MG	0.00	0.00	110.00
3630	-15723	-15722	-15788	-15789	MG	0.00	0.00	110.00
3630	-15789	-15788	-15854	-15855	MG	0.00	0.00	110.00
3630	-15855	-15854	-15921	-15922	MG	0.00	0.00	110.00
3630	-15262	-15261	-15327	-15328	MG	0.00	0.00	110.00
3630	-15328	-15327	-15393	-15394	MG	0.00	0.00	110.00
3630	-15394	-15393	-15459	-15460	MG	0.00	0.00	110.00
3630	-15460	-15459	-15525	-15526	MG	0.00	0.00	110.00
3630	-15526	-15525	-15591	-15592	MG	0.00	0.00	110.00
3630	-15592	-15591	-15657	-15658	MG	0.00	0.00	110.00
3630	-12246	-12318	-12319	-12247	MG	0.00	0.00	110.00
3630	-15724	-15723	-15789	-15790	MG	0.00	0.00	110.00
3630	-12386	-12452	-12453	-12387	MG	0.00	0.00	110.00
3630	-15856	-15855	-15922	-15923	MG	0.00	0.00	110.00
3630	-15263	-15262	-15328	-15329	MG	0.00	0.00	110.00
3630	-15329	-15328	-15394	-15395	MG	0.00	0.00	110.00
3630	-11892	-11998	-11999	-11900	MG	0.00	0.00	110.00
3630	-15461	-15460	-15526	-15527	MG	0.00	0.00	110.00
3630	-15527	-15526	-15592	-15593	MG	0.00	0.00	110.00
3630	-15593	-15592	-15658	-15659	MG	0.00	0.00	110.00
3630	-15659	-15658	-15724	-15725	MG	0.00	0.00	110.00
3630	-15725	-15724	-15790	-15791	MG	0.00	0.00	110.00
3630	-15791	-15790	-15856	-15857	MG	0.00	0.00	110.00
3630	-12453	-12537	-12538	-12454	MG	0.00	0.00	110.00
3630	-11766	-11832	-11833	-11767	MG	0.00	0.00	110.00
3630	-11832	-11900	-11901	-11833	MG	0.00	0.00	110.00
3630	-11900	-11999	-12000	-11901	MG	0.00	0.00	110.00
3630	-15462	-15461	-15527	-15528	MG	0.00	0.00	110.00
3630	-12102	-12120	-12165	-12070	MG	0.00	0.00	110.00
3630	-12120	-12248	-12249	-12165	MG	0.00	0.00	110.00
3630	-15660	-15659	-15725	-15726	MG	0.00	0.00	110.00
3630	-12320	-12388	-12389	-12321	MG	0.00	0.00	110.00
3630	-15792	-15791	-15857	-15858	MG	0.00	0.00	110.00
3630	-15857	-15924	-15925	-15858	MG	0.00	0.00	110.00
3630	-11767	-11833	-11834	-11768	MG	0.00	0.00	110.00
3630	-11833	-11901	-11902	-11834	MG	0.00	0.00	110.00

3630	-15397	-15396	-15462	-15463	MG	0.00	0.00	110.00
3630	-15463	-15462	-15528	-15529	MG	0.00	0.00	110.00
3630	-15529	-15528	-15594	-15595	MG	0.00	0.00	110.00
3630	-15595	-15594	-15660	-15661	MG	0.00	0.00	110.00
3630	-15661	-15660	-15726	-15727	MG	0.00	0.00	110.00
3630	-15727	-15726	-15792	-15793	MG	0.00	0.00	110.00
3630	-12389	-12455	-12456	-12390	MG	0.00	0.00	110.00
3630	-12455	-12539	-12550	-12456	MG	0.00	0.00	110.00
3630	-15266	-15265	-15331	-15332	MG	0.00	0.00	110.00
3630	-15332	-15331	-15397	-15398	MG	0.00	0.00	110.00
3630	-15398	-15397	-15463	-15464	MG	0.00	0.00	110.00
3630	-15464	-15463	-15529	-15530	MG	0.00	0.00	110.00
3630	-15530	-15529	-15595	-15596	MG	0.00	0.00	110.00
3630	-15596	-15595	-15661	-15662	MG	0.00	0.00	110.00
3630	-15662	-15661	-15727	-15728	MG	0.00	0.00	110.00
3630	-15728	-15727	-15793	-15794	MG	0.00	0.00	110.00
3630	-15794	-15793	-15859	-15860	MG	0.00	0.00	110.00
3630	-15860	-15859	-15926	-15927	MG	0.00	0.00	110.00
3630	-11769	-11835	-11836	-11770	MG	0.00	0.00	110.00
3630	-11835	-11903	-11904	-11836	MG	0.00	0.00	110.00
3630	-11903	-12001	-11941	-11904	MG	0.00	0.00	110.00
3630	-15465	-15464	-15530	-15531	MG	0.00	0.00	110.00
3630	-12055	-12188	-12122	-12024	MG	0.00	0.00	110.00
3630	-15597	-15596	-15662	-15663	MG	0.00	0.00	110.00
3630	-15663	-15662	-15728	-15729	MG	0.00	0.00	110.00
3630	-15729	-15728	-15794	-15795	MG	0.00	0.00	110.00
3630	-15795	-15794	-15860	-15861	MG	0.00	0.00	110.00
3630	-15861	-15860	-15927	-15928	MG	0.00	0.00	110.00
3630	-15268	-15267	-15333	-15334	MG	0.00	0.00	110.00
3630	-15334	-15333	-15399	-15400	MG	0.00	0.00	110.00
3630	-15400	-15399	-15465	-15466	MG	0.00	0.00	110.00
3630	-11941	-12024	-12071	-12002	MG	0.00	0.00	110.00
3630	-12024	-12122	-12172	-12071	MG	0.00	0.00	110.00
3630	-15598	-15597	-15663	-15664	MG	0.00	0.00	110.00
3630	-12252	-12324	-12325	-12253	MG	0.00	0.00	110.00
3630	-12324	-12392	-12393	-12325	MG	0.00	0.00	110.00
3630	-12392	-12458	-12459	-12393	MG	0.00	0.00	110.00
3630	-12458	-12541	-12542	-12459	MG	0.00	0.00	110.00
3630	-11771	-11837	-11838	-11772	MG	0.00	0.00	110.00
3630	-11837	-11905	-11906	-11838	MG	0.00	0.00	110.00
3630	-15401	-15400	-15466	-15467	MG	0.00	0.00	110.00
3630	-15467	-15466	-15532	-15533	MG	0.00	0.00	110.00
3630	-15533	-15532	-15598	-15599	MG	0.00	0.00	110.00
3630	-15599	-15598	-15664	-15665	MG	0.00	0.00	110.00
3630	-15665	-15664	-15730	-15731	MG	0.00	0.00	110.00
3630	-12325	-12393	-12394	-12326	MG	0.00	0.00	110.00
3630	-12393	-12459	-12460	-12394	MG	0.00	0.00	110.00
3630	-12459	-12542	-12543	-12460	MG	0.00	0.00	110.00
3630	-15270	-15269	-15335	-15336	MG	0.00	0.00	110.00
3630	-15336	-15335	-15401	-15402	MG	0.00	0.00	110.00
3630	-15402	-15401	-15467	-15468	MG	0.00	0.00	110.00
3630	-15468	-15467	-15533	-15534	MG	0.00	0.00	110.00
3630	-15534	-15533	-15599	-15600	MG	0.00	0.00	110.00
3630	-13610	-13676	-13677	-13611	MG	0.00	0.00	110.00
3630	-13676	-13742	-13743	-13677	MG	0.00	0.00	110.00
3630	-15732	-15731	-15797	-15798	MG	0.00	0.00	110.00
3630	-15798	-15797	-15863	-15864	MG	0.00	0.00	110.00
3630	-15864	-15863	-15930	-15931	MG	0.00	0.00	110.00
3630	-15920	-15919	-15985	-15986	MG	0.00	0.00	110.00
3630	-15986	-15985	-16051	-16052	MG	0.00	0.00	110.00
3630	-16052	-16051	-16117	-16118	MG	0.00	0.00	110.00
3630	-16118	-16117	-16183	-16184	MG	0.00	0.00	110.00
3630	-16184	-16183	-16249	-16250	MG	0.00	0.00	110.00
3630	-16250	-16249	-16315	-16316	MG	0.00	0.00	110.00
3630	-16316	-16315	-16381	-16382	MG	0.00	0.00	110.00
3630	-13743	-13809	-13810	-13744	MG	0.00	0.00	110.00
3630	-13809	-13875	-13876	-13810	MG	0.00	0.00	110.00
3630	-13875	-13943	-13944	-13876	MG	0.00	0.00	110.00
3630	-15921	-15920	-15986	-15987	MG	0.00	0.00	110.00
3630	-15987	-15986	-16052	-16053	MG	0.00	0.00	110.00
3630	-16053	-16052	-16118	-16119	MG	0.00	0.00	110.00
3630	-13476	-13546	-13547	-13477	MG	0.00	0.00	110.00
3630	-13546	-13612	-13613	-13547	MG	0.00	0.00	110.00
3630	-13612	-13678	-13679	-13613	MG	0.00	0.00	110.00
3630	-13678	-13744	-13745	-13679	MG	0.00	0.00	110.00
3630	-13744	-13810	-13811	-13745	MG	0.00	0.00	110.00
3630	-15734	-15735	-15801	-15800	MG	0.00	0.00	110.00
3630	-15735	-15736	-15802	-15801	MG	0.00	0.00	110.00
3630	-15922	-15921	-15987	-15988	MG	0.00	0.00	110.00

3630	-15988	-15987	-16053	-16054	MG	0.00	0.00	110.00
3630	-13405	-13477	-13478	-13406	MG	0.00	0.00	110.00
3630	-16120	-16119	-16185	-16186	MG	0.00	0.00	110.00
3630	-16186	-16185	-16251	-16252	MG	0.00	0.00	110.00
3630	-16252	-16251	-16317	-16318	MG	0.00	0.00	110.00
3630	-13679	-13745	-13746	-13680	MG	0.00	0.00	110.00
3630	-15338	-15339	-15405	-15404	MG	0.00	0.00	110.00
3630	-13811	-13877	-13878	-13812	MG	0.00	0.00	110.00
3630	-15142	-15143	-15207	-15206	MG	0.00	0.00	110.00
3630	-15923	-15922	-15988	-15989	MG	0.00	0.00	110.00
3630	-15989	-15988	-16054	-16055	MG	0.00	0.00	110.00
3630	-13406	-13478	-13479	-13407	MG	0.00	0.00	110.00
3630	-13478	-13548	-13549	-13479	MG	0.00	0.00	110.00
3630	-16187	-16186	-16252	-16253	MG	0.00	0.00	110.00
3630	-16253	-16252	-16318	-16319	MG	0.00	0.00	110.00
3630	-16319	-16318	-16384	-16385	MG	0.00	0.00	110.00
3630	-14940	-14941	-15007	-15006	MG	0.00	0.00	110.00
3630	-14742	-14743	-14809	-14808	MG	0.00	0.00	110.00
3630	-14807	-14808	-14874	-14873	MG	0.00	0.00	110.00
3630	-14808	-14809	-14875	-14874	MG	0.00	0.00	110.00
3630	-15990	-15989	-16055	-16056	MG	0.00	0.00	110.00
3630	-16056	-16055	-16121	-16122	MG	0.00	0.00	110.00
3630	-16122	-16121	-16187	-16188	MG	0.00	0.00	110.00
3630	-16188	-16187	-16253	-16254	MG	0.00	0.00	110.00
3630	-16254	-16253	-16319	-16320	MG	0.00	0.00	110.00
3630	-16320	-16319	-16385	-16386	MG	0.00	0.00	110.00
3630	-14340	-14341	-14407	-14406	MG	0.00	0.00	110.00
3630	-13813	-13879	-13880	-13814	MG	0.00	0.00	110.00
3630	-14406	-14407	-14473	-14472	MG	0.00	0.00	110.00
3630	-13595	-13661	-13662	-13596	MG	0.00	0.00	110.00
3630	-13341	-13408	-13409	-13342	MG	0.00	0.00	110.00
3630	-16057	-16056	-16122	-16123	MG	0.00	0.00	110.00
3630	-13480	-13550	-13551	-13481	MG	0.00	0.00	110.00
3630	-16189	-16188	-16254	-16255	MG	0.00	0.00	110.00
3630	-13616	-13682	-13683	-13617	MG	0.00	0.00	110.00
3630	-13682	-13748	-13749	-13683	MG	0.00	0.00	110.00
3630	-14006	-14007	-14078	-14077	MG	0.00	0.00	110.00
3630	-13814	-13880	-13881	-13815	MG	0.00	0.00	110.00
3630	-13803	-13804	-13870	-13869	MG	0.00	0.00	110.00
3630	-15926	-15925	-15991	-15992	MG	0.00	0.00	110.00
3630	-15992	-15991	-16057	-16058	MG	0.00	0.00	110.00
3630	-16058	-16057	-16123	-16124	MG	0.00	0.00	110.00
3630	-16124	-16123	-16189	-16190	MG	0.00	0.00	110.00
3630	-16190	-16189	-16255	-16256	MG	0.00	0.00	110.00
3630	-13617	-13683	-13684	-13618	MG	0.00	0.00	110.00
3630	-13683	-13749	-13750	-13684	MG	0.00	0.00	110.00
3630	-13749	-13815	-13816	-13750	MG	0.00	0.00	110.00
3630	-13397	-13398	-13470	-13469	MG	0.00	0.00	110.00
3630	-13468	-13469	-13539	-13538	MG	0.00	0.00	110.00
3630	-15927	-15926	-15992	-15993	MG	0.00	0.00	110.00
3630	-15993	-15992	-16058	-16059	MG	0.00	0.00	110.00
3630	-16059	-16058	-16124	-16125	MG	0.00	0.00	110.00
3630	-16125	-16124	-16190	-16191	MG	0.00	0.00	110.00
3630	-16191	-16190	-16256	-16257	MG	0.00	0.00	110.00
3630	-16257	-16256	-16322	-16323	MG	0.00	0.00	110.00
3630	-16323	-16322	-16388	-16389	MG	0.00	0.00	110.00
3630	-12974	-12975	-13054	-13053	MG	0.00	0.00	110.00
3630	-13052	-13053	-13085	-13128	MG	0.00	0.00	110.00
3630	-13053	-13054	-13117	-13085	MG	0.00	0.00	110.00
3630	-13275	-13344	-13345	-13276	MG	0.00	0.00	110.00
3630	-13344	-13411	-13412	-13345	MG	0.00	0.00	110.00
3630	-13411	-13483	-13484	-13412	MG	0.00	0.00	110.00
3630	-16126	-16125	-16191	-16192	MG	0.00	0.00	110.00
3630	-16192	-16191	-16257	-16258	MG	0.00	0.00	110.00
3630	-16258	-16257	-16323	-16324	MG	0.00	0.00	110.00
3630	-13685	-13751	-13752	-13686	MG	0.00	0.00	110.00
3630	-13751	-13817	-13818	-13752	MG	0.00	0.00	110.00
3630	-13817	-13883	-13884	-13818	MG	0.00	0.00	110.00
3630	-13883	-13951	-13952	-13884	MG	0.00	0.00	110.00
3630	-13276	-13345	-13346	-13277	MG	0.00	0.00	110.00
3630	-15995	-15994	-16060	-16061	MG	0.00	0.00	110.00
3630	-16061	-16060	-16126	-16127	MG	0.00	0.00	110.00
3630	-16127	-16126	-16192	-16193	MG	0.00	0.00	110.00
3630	-13554	-13620	-13621	-13555	MG	0.00	0.00	110.00
3630	-13620	-13686	-13687	-13621	MG	0.00	0.00	110.00
3630	-16325	-16324	-16390	-16391	MG	0.00	0.00	110.00
3630	-13752	-13818	-13819	-13753	MG	0.00	0.00	110.00
3630	-11867	-11885	-11972	-12010	MG	0.00	0.00	110.00
3630	-13884	-13952	-13953	-13885	MG	0.00	0.00	110.00

3630	-15930	-15929	-15995	-15996	MG	0.00	0.00	110.00
3630	-13346	-13413	-13414	-13347	MG	0.00	0.00	110.00
3630	-13413	-13485	-13486	-13414	MG	0.00	0.00	110.00
3630	-16128	-16127	-16193	-16194	MG	0.00	0.00	110.00
3630	-13555	-13621	-13622	-13556	MG	0.00	0.00	110.00
3630	-16260	-16259	-16325	-16326	MG	0.00	0.00	110.00
3630	-13687	-13753	-13754	-13688	MG	0.00	0.00	110.00
3630	-13753	-13819	-13820	-13754	MG	0.00	0.00	110.00
3630	-13819	-13885	-13886	-13820	MG	0.00	0.00	110.00
3630	-11547	-11548	-11618	-11617	MG	0.00	0.00	110.00
3630	-15931	-15930	-15996	-15997	MG	0.00	0.00	110.00
3630	-15997	-15996	-16062	-16063	MG	0.00	0.00	110.00
3630	-16063	-16062	-16128	-16129	MG	0.00	0.00	110.00
3630	-16129	-16128	-16194	-16195	MG	0.00	0.00	110.00
3630	-12827	-12897	-12898	-12828	MG	0.00	0.00	110.00
3630	-12897	-12964	-12978	-12898	MG	0.00	0.00	110.00
3630	-12964	-13058	-13059	-12978	MG	0.00	0.00	110.00
3630	-11136	-11137	-11203	-11202	MG	0.00	0.00	110.00
3630	-11137	-11138	-11204	-11203	MG	0.00	0.00	110.00
3630	-10929	-10930	-10995	-10994	MG	0.00	0.00	110.00
3630	-14594	-14593	-14661	-14662	MG	0.00	0.00	110.00
3630	-14662	-14661	-14727	-14728	MG	0.00	0.00	110.00
3630	-14728	-14727	-14793	-14794	MG	0.00	0.00	110.00
3630	-14794	-14793	-14859	-14860	MG	0.00	0.00	110.00
3630	-14860	-14859	-14925	-14926	MG	0.00	0.00	110.00
3630	-14926	-14925	-14991	-14992	MG	0.00	0.00	110.00
3630	-14992	-14991	-15057	-15058	MG	0.00	0.00	110.00
3630	-13059	-13130	-13121	-13060	MG	0.00	0.00	110.00
3630	-13130	-13201	-13202	-13121	MG	0.00	0.00	110.00
3630	-15192	-15191	-15258	-15259	MG	0.00	0.00	110.00
3630	-14595	-14594	-14662	-14663	MG	0.00	0.00	110.00
3630	-14663	-14662	-14728	-14729	MG	0.00	0.00	110.00
3630	-14729	-14728	-14794	-14795	MG	0.00	0.00	110.00
3630	-14795	-14794	-14860	-14861	MG	0.00	0.00	110.00
3630	-14861	-14860	-14926	-14927	MG	0.00	0.00	110.00
3630	-14927	-14926	-14992	-14993	MG	0.00	0.00	110.00
3630	-14993	-14992	-15058	-15059	MG	0.00	0.00	110.00
3630	-15059	-15058	-15124	-15135	MG	0.00	0.00	110.00
3630	-15135	-15124	-15192	-15193	MG	0.00	0.00	110.00
3630	-15193	-15192	-15259	-15260	MG	0.00	0.00	110.00
3630	-14596	-14595	-14663	-14664	MG	0.00	0.00	110.00
3630	-14664	-14663	-14729	-14730	MG	0.00	0.00	110.00
3630	-12689	-12760	-12761	-12690	MG	0.00	0.00	110.00
3630	-14796	-14795	-14861	-14862	MG	0.00	0.00	110.00
3630	-14862	-14861	-14927	-14928	MG	0.00	0.00	110.00
3630	-14928	-14927	-14993	-14994	MG	0.00	0.00	110.00
3630	-14994	-14993	-15059	-15060	MG	0.00	0.00	110.00
3630	-15060	-15059	-15135	-15125	MG	0.00	0.00	110.00
3630	-15125	-15135	-15193	-15194	MG	0.00	0.00	110.00
3630	-15194	-15193	-15260	-15261	MG	0.00	0.00	110.00
3630	-14597	-14596	-14664	-14665	MG	0.00	0.00	110.00
3630	-14665	-14664	-14730	-14731	MG	0.00	0.00	110.00
3630	-14731	-14730	-14796	-14797	MG	0.00	0.00	110.00
3630	-14797	-14796	-14862	-14863	MG	0.00	0.00	110.00
3630	-14863	-14862	-14928	-14929	MG	0.00	0.00	110.00
3630	-14929	-14928	-14994	-14995	MG	0.00	0.00	110.00
3630	-14995	-14994	-15060	-15061	MG	0.00	0.00	110.00
3630	-15061	-15060	-15125	-15136	MG	0.00	0.00	110.00
3630	-15136	-15125	-15194	-15195	MG	0.00	0.00	110.00
3630	-15195	-15194	-15261	-15262	MG	0.00	0.00	110.00
3630	-14598	-14597	-14665	-14666	MG	0.00	0.00	110.00
3630	-14666	-14665	-14731	-14732	MG	0.00	0.00	110.00
3630	-14732	-14731	-14797	-14798	MG	0.00	0.00	110.00
3630	-14798	-14797	-14863	-14864	MG	0.00	0.00	110.00
3630	-14864	-14863	-14929	-14930	MG	0.00	0.00	110.00
3630	-14930	-14929	-14995	-14996	MG	0.00	0.00	110.00
3630	-14996	-14995	-15061	-15062	MG	0.00	0.00	110.00
3630	-15062	-15061	-15136	-15096	MG	0.00	0.00	110.00
3630	-15096	-15136	-15195	-15196	MG	0.00	0.00	110.00
3630	-15196	-15195	-15262	-15263	MG	0.00	0.00	110.00
3630	-14599	-14598	-14666	-14667	MG	0.00	0.00	110.00
3630	-14667	-14666	-14732	-14733	MG	0.00	0.00	110.00
3630	-14733	-14732	-14798	-14799	MG	0.00	0.00	110.00
3630	-14799	-14798	-14864	-14865	MG	0.00	0.00	110.00
3630	-14865	-14864	-14930	-14931	MG	0.00	0.00	110.00
3630	-14931	-14930	-14996	-14997	MG	0.00	0.00	110.00
3630	-14997	-14996	-15062	-15063	MG	0.00	0.00	110.00
3630	-15063	-15062	-15096	-15126	MG	0.00	0.00	110.00
3630	-15126	-15096	-15196	-15197	MG	0.00	0.00	110.00



3630	-15197	-15196	-15263	-15264	MG	0.00	0.00	110.00
3630	-14600	-14599	-14667	-14668	MG	0.00	0.00	110.00
3630	-14668	-14667	-14733	-14734	MG	0.00	0.00	110.00
3630	-14734	-14733	-14799	-14800	MG	0.00	0.00	110.00
3630	-14800	-14799	-14865	-14866	MG	0.00	0.00	110.00
3630	-14866	-14865	-14931	-14932	MG	0.00	0.00	110.00
3630	-14932	-14931	-14997	-14998	MG	0.00	0.00	110.00
3630	-14998	-14997	-15063	-15064	MG	0.00	0.00	110.00
3630	-15064	-15063	-15126	-15137	MG	0.00	0.00	110.00
3630	-15137	-15126	-15197	-15198	MG	0.00	0.00	110.00
3630	-15198	-15197	-15264	-15265	MG	0.00	0.00	110.00
3630	-14601	-14600	-14668	-14669	MG	0.00	0.00	110.00
3630	-14669	-14668	-14734	-14735	MG	0.00	0.00	110.00
3630	-14735	-14734	-14800	-14801	MG	0.00	0.00	110.00
3630	-14801	-14800	-14866	-14867	MG	0.00	0.00	110.00
3630	-14867	-14866	-14932	-14933	MG	0.00	0.00	110.00
3630	-14933	-14932	-14998	-14999	MG	0.00	0.00	110.00
3630	-14999	-14998	-15064	-15065	MG	0.00	0.00	110.00
3630	-15065	-15064	-15137	-15138	MG	0.00	0.00	110.00
3630	-15138	-15137	-15198	-15199	MG	0.00	0.00	110.00
3630	-15199	-15198	-15265	-15266	MG	0.00	0.00	110.00
3630	-14602	-14601	-14669	-14670	MG	0.00	0.00	110.00
3630	-14670	-14669	-14735	-14736	MG	0.00	0.00	110.00
3630	-14736	-14735	-14801	-14802	MG	0.00	0.00	110.00
3630	-14802	-14801	-14867	-14868	MG	0.00	0.00	110.00
3630	-14868	-14867	-14933	-14934	MG	0.00	0.00	110.00
3630	-14934	-14933	-14999	-15000	MG	0.00	0.00	110.00
3630	-15000	-14999	-15065	-15066	MG	0.00	0.00	110.00
3630	-15066	-15065	-15138	-15139	MG	0.00	0.00	110.00
3630	-15139	-15138	-15199	-15200	MG	0.00	0.00	110.00
3630	-15200	-15199	-15266	-15267	MG	0.00	0.00	110.00
3630	-14603	-14602	-14670	-14671	MG	0.00	0.00	110.00
3630	-14671	-14670	-14736	-14737	MG	0.00	0.00	110.00
3630	-14737	-14736	-14802	-14803	MG	0.00	0.00	110.00
3630	-14803	-14802	-14868	-14869	MG	0.00	0.00	110.00
3630	-14869	-14868	-14934	-14935	MG	0.00	0.00	110.00
3630	-14935	-14934	-15000	-15001	MG	0.00	0.00	110.00
3630	-15001	-15000	-15066	-15067	MG	0.00	0.00	110.00
3630	-15067	-15066	-15139	-15127	MG	0.00	0.00	110.00
3630	-15127	-15139	-15200	-15201	MG	0.00	0.00	110.00
3630	-15201	-15200	-15267	-15268	MG	0.00	0.00	110.00
3630	-14604	-14603	-14671	-14672	MG	0.00	0.00	110.00
3630	-14672	-14671	-14737	-14738	MG	0.00	0.00	110.00
3630	-14738	-14737	-14803	-14804	MG	0.00	0.00	110.00
3630	-14804	-14803	-14869	-14870	MG	0.00	0.00	110.00
3630	-14870	-14869	-14935	-14936	MG	0.00	0.00	110.00
3630	-14936	-14935	-15001	-15002	MG	0.00	0.00	110.00
3630	-15002	-15001	-15067	-15068	MG	0.00	0.00	110.00
3630	-15068	-15067	-15127	-15128	MG	0.00	0.00	110.00
3630	-15128	-15127	-15201	-15202	MG	0.00	0.00	110.00
3630	-15202	-15201	-15268	-15269	MG	0.00	0.00	110.00
3630	-14605	-14604	-14672	-14673	MG	0.00	0.00	110.00
3630	-14673	-14672	-14738	-14739	MG	0.00	0.00	110.00
3630	-14739	-14738	-14804	-14805	MG	0.00	0.00	110.00
3630	-14805	-14804	-14870	-14871	MG	0.00	0.00	110.00
3630	-14871	-14870	-14936	-14937	MG	0.00	0.00	110.00
3630	-14937	-14936	-15002	-15003	MG	0.00	0.00	110.00
3630	-15003	-15002	-15068	-15069	MG	0.00	0.00	110.00
3630	-15069	-15068	-15128	-15129	MG	0.00	0.00	110.00
3630	-15129	-15128	-15202	-15203	MG	0.00	0.00	110.00
3630	-15203	-15202	-15269	-15270	MG	0.00	0.00	110.00
3630	-13934	-13933	-14003	-14004	MG	0.00	0.00	110.00
3630	-13933	-13932	-14002	-14003	MG	0.00	0.00	110.00
3630	-13932	-13931	-14001	-14002	MG	0.00	0.00	110.00
3630	-13931	-13930	-14000	-14001	MG	0.00	0.00	110.00
3630	-13930	-13929	-13999	-14000	MG	0.00	0.00	110.00
3630	-13929	-13928	-13998	-13999	MG	0.00	0.00	110.00
3630	-13928	-13927	-13997	-13998	MG	0.00	0.00	110.00
3630	-13927	-13926	-13996	-13997	MG	0.00	0.00	110.00
3630	-13926	-13925	-13995	-13996	MG	0.00	0.00	110.00
3630	-13925	-13924	-13994	-13995	MG	0.00	0.00	110.00
3630	-13924	-13923	-13993	-13994	MG	0.00	0.00	110.00
3630	-13923	-13922	-13992	-13993	MG	0.00	0.00	110.00
3630	-14004	-14003	-14075	-14076	MG	0.00	0.00	110.00
3630	-14003	-14002	-14074	-14075	MG	0.00	0.00	110.00
3630	-14002	-14001	-14073	-14074	MG	0.00	0.00	110.00
3630	-14001	-14000	-14072	-14073	MG	0.00	0.00	110.00
3630	-14000	-13999	-14071	-14072	MG	0.00	0.00	110.00
3630	-13999	-13998	-14070	-14071	MG	0.00	0.00	110.00

3630	-13998	-13997	-14062	-14070	MG	0.00	0.00	110.00
3630	-13997	-13996	-14061	-14062	MG	0.00	0.00	110.00
3630	-13996	-13995	-14060	-14061	MG	0.00	0.00	110.00
3630	-13995	-13994	-14059	-14060	MG	0.00	0.00	110.00
3630	-13994	-13993	-14058	-14059	MG	0.00	0.00	110.00
3630	-13993	-13992	-14057	-14058	MG	0.00	0.00	110.00
3630	-14076	-14075	-14138	-14139	MG	0.00	0.00	110.00
3630	-14075	-14074	-14137	-14138	MG	0.00	0.00	110.00
3630	-14074	-14073	-14136	-14137	MG	0.00	0.00	110.00
3630	-14073	-14072	-14135	-14136	MG	0.00	0.00	110.00
3630	-14072	-14071	-14134	-14135	MG	0.00	0.00	110.00
3630	-14071	-14070	-14133	-14134	MG	0.00	0.00	110.00
3630	-14070	-14062	-14132	-14133	MG	0.00	0.00	110.00
3630	-14062	-14061	-14131	-14132	MG	0.00	0.00	110.00
3630	-14061	-14060	-14130	-14131	MG	0.00	0.00	110.00
3630	-14060	-14059	-14129	-14130	MG	0.00	0.00	110.00
3630	-14059	-14058	-14128	-14129	MG	0.00	0.00	110.00
3630	-14058	-14057	-14127	-14128	MG	0.00	0.00	110.00
3630	-14139	-14138	-14204	-14205	MG	0.00	0.00	110.00
3630	-14138	-14137	-14203	-14204	MG	0.00	0.00	110.00
3630	-14137	-14136	-14202	-14203	MG	0.00	0.00	110.00
3630	-14136	-14135	-14201	-14202	MG	0.00	0.00	110.00
3630	-14135	-14134	-14200	-14201	MG	0.00	0.00	110.00
3630	-14134	-14133	-14199	-14200	MG	0.00	0.00	110.00
3630	-14133	-14132	-14198	-14199	MG	0.00	0.00	110.00
3630	-14132	-14131	-14197	-14198	MG	0.00	0.00	110.00
3630	-14131	-14130	-14196	-14197	MG	0.00	0.00	110.00
3630	-14130	-14129	-14195	-14196	MG	0.00	0.00	110.00
3630	-14129	-14128	-14194	-14195	MG	0.00	0.00	110.00
3630	-14128	-14127	-14193	-14194	MG	0.00	0.00	110.00
3630	-14205	-14204	-14270	-14271	MG	0.00	0.00	110.00
3630	-14204	-14203	-14269	-14270	MG	0.00	0.00	110.00
3630	-14203	-14202	-14268	-14269	MG	0.00	0.00	110.00
3630	-14202	-14201	-14267	-14268	MG	0.00	0.00	110.00
3630	-14201	-14200	-14266	-14267	MG	0.00	0.00	110.00
3630	-14200	-14199	-14265	-14266	MG	0.00	0.00	110.00
3630	-14199	-14198	-14264	-14265	MG	0.00	0.00	110.00
3630	-14198	-14197	-14263	-14264	MG	0.00	0.00	110.00
3630	-14197	-14196	-14262	-14263	MG	0.00	0.00	110.00
3630	-14196	-14195	-14261	-14262	MG	0.00	0.00	110.00
3630	-14195	-14194	-14260	-14261	MG	0.00	0.00	110.00
3630	-14194	-14193	-14259	-14260	MG	0.00	0.00	110.00
3630	-14271	-14270	-14336	-14337	MG	0.00	0.00	110.00
3630	-14270	-14269	-14335	-14336	MG	0.00	0.00	110.00
3630	-14269	-14268	-14334	-14335	MG	0.00	0.00	110.00
3630	-14268	-14267	-14333	-14334	MG	0.00	0.00	110.00
3630	-14267	-14266	-14332	-14333	MG	0.00	0.00	110.00
3630	-14266	-14265	-14331	-14332	MG	0.00	0.00	110.00
3630	-14265	-14264	-14330	-14331	MG	0.00	0.00	110.00
3630	-14264	-14263	-14329	-14330	MG	0.00	0.00	110.00
3630	-14263	-14262	-14328	-14329	MG	0.00	0.00	110.00
3630	-14262	-14261	-14327	-14328	MG	0.00	0.00	110.00
3630	-14261	-14260	-14326	-14327	MG	0.00	0.00	110.00
3630	-14260	-14259	-14325	-14326	MG	0.00	0.00	110.00
3630	-14337	-14336	-14402	-14403	MG	0.00	0.00	110.00
3630	-14336	-14335	-14401	-14402	MG	0.00	0.00	110.00
3630	-14335	-14334	-14400	-14401	MG	0.00	0.00	110.00
3630	-14334	-14333	-14399	-14400	MG	0.00	0.00	110.00
3630	-14333	-14332	-14398	-14399	MG	0.00	0.00	110.00
3630	-14332	-14331	-14397	-14398	MG	0.00	0.00	110.00
3630	-14331	-14330	-14396	-14397	MG	0.00	0.00	110.00
3630	-14330	-14329	-14395	-14396	MG	0.00	0.00	110.00
3630	-14329	-14328	-14394	-14395	MG	0.00	0.00	110.00
3630	-14328	-14327	-14393	-14394	MG	0.00	0.00	110.00
3630	-14327	-14326	-14392	-14393	MG	0.00	0.00	110.00
3630	-14326	-14325	-14391	-14392	MG	0.00	0.00	110.00
3630	-14403	-14402	-14468	-14469	MG	0.00	0.00	110.00
3630	-14402	-14401	-14467	-14468	MG	0.00	0.00	110.00
3630	-14401	-14400	-14466	-14467	MG	0.00	0.00	110.00
3630	-14400	-14399	-14465	-14466	MG	0.00	0.00	110.00
3630	-14399	-14398	-14464	-14465	MG	0.00	0.00	110.00
3630	-14398	-14397	-14463	-14464	MG	0.00	0.00	110.00
3630	-14397	-14396	-14462	-14463	MG	0.00	0.00	110.00
3630	-14396	-14395	-14461	-14462	MG	0.00	0.00	110.00
3630	-14395	-14394	-14460	-14461	MG	0.00	0.00	110.00
3630	-14394	-14393	-14459	-14460	MG	0.00	0.00	110.00
3630	-14393	-14392	-14458	-14459	MG	0.00	0.00	110.00
3630	-14392	-14391	-14457	-14458	MG	0.00	0.00	110.00
3630	-14469	-14468	-14534	-14535	MG	0.00	0.00	110.00

3630	-14468	-14467	-14533	-14534	MG	0.00	0.00	110.00
3630	-14467	-14466	-14532	-14533	MG	0.00	0.00	110.00
3630	-14466	-14465	-14531	-14532	MG	0.00	0.00	110.00
3630	-14465	-14464	-14530	-14531	MG	0.00	0.00	110.00
3630	-14464	-14463	-14529	-14530	MG	0.00	0.00	110.00
3630	-14463	-14462	-14528	-14529	MG	0.00	0.00	110.00
3630	-14462	-14461	-14527	-14528	MG	0.00	0.00	110.00
3630	-14461	-14460	-14526	-14527	MG	0.00	0.00	110.00
3630	-14460	-14459	-14525	-14526	MG	0.00	0.00	110.00
3630	-14459	-14458	-14524	-14525	MG	0.00	0.00	110.00
3630	-14458	-14457	-14523	-14524	MG	0.00	0.00	110.00
3630	-14535	-14534	-14604	-14605	MG	0.00	0.00	110.00
3630	-14534	-14533	-14603	-14604	MG	0.00	0.00	110.00
3630	-14533	-14532	-14602	-14603	MG	0.00	0.00	110.00
3630	-14532	-14531	-14601	-14602	MG	0.00	0.00	110.00
3630	-14531	-14530	-14600	-14601	MG	0.00	0.00	110.00
3630	-14530	-14529	-14599	-14600	MG	0.00	0.00	110.00
3630	-14529	-14528	-14598	-14599	MG	0.00	0.00	110.00
3630	-14528	-14527	-14597	-14598	MG	0.00	0.00	110.00
3630	-14527	-14526	-14596	-14597	MG	0.00	0.00	110.00
3630	-14526	-14525	-14595	-14596	MG	0.00	0.00	110.00
3630	-14525	-14524	-14594	-14595	MG	0.00	0.00	110.00
3630	-14524	-14523	-14593	-14594	MG	0.00	0.00	110.00
3630	-11806	-11861	-11862	-11807	MG	0.00	0.00	110.00
3630	-11861	-11994	-11995	-11862	MG	0.00	0.00	110.00
3630	-11994	-12095	-12019	-11995	MG	0.00	0.00	110.00
3630	-12095	-12143	-12157	-12019	MG	0.00	0.00	110.00
3630	-12143	-12222	-12223	-12157	MG	0.00	0.00	110.00
3630	-12222	-12294	-12295	-12223	MG	0.00	0.00	110.00
3630	-12294	-12362	-12363	-12295	MG	0.00	0.00	110.00
3630	-12362	-12428	-12429	-12363	MG	0.00	0.00	110.00
3630	-12428	-12508	-12509	-12429	MG	0.00	0.00	110.00
3630	-11741	-11807	-11808	-11742	MG	0.00	0.00	110.00
3630	-11807	-11862	-11876	-11808	MG	0.00	0.00	110.00
3630	-11862	-11995	-11947	-11876	MG	0.00	0.00	110.00
3630	-11995	-12019	-12060	-11947	MG	0.00	0.00	110.00
3630	-12019	-12157	-12158	-12060	MG	0.00	0.00	110.00
3630	-12157	-12223	-12224	-12158	MG	0.00	0.00	110.00
3630	-12223	-12295	-12296	-12224	MG	0.00	0.00	110.00
3630	-12295	-12363	-12364	-12296	MG	0.00	0.00	110.00
3630	-12363	-12429	-12430	-12364	MG	0.00	0.00	110.00
3630	-12429	-12509	-12510	-12430	MG	0.00	0.00	110.00
3630	-11742	-11808	-11809	-11743	MG	0.00	0.00	110.00
3630	-11808	-11876	-11863	-11809	MG	0.00	0.00	110.00
3630	-11876	-11947	-11937	-11863	MG	0.00	0.00	110.00
3630	-11947	-12060	-12034	-11937	MG	0.00	0.00	110.00
3630	-12060	-12158	-12108	-12034	MG	0.00	0.00	110.00
3630	-12158	-12224	-12225	-12108	MG	0.00	0.00	110.00
3630	-12224	-12296	-12297	-12225	MG	0.00	0.00	110.00
3630	-12296	-12364	-12365	-12297	MG	0.00	0.00	110.00
3630	-12364	-12430	-12431	-12365	MG	0.00	0.00	110.00
3630	-12430	-12510	-12511	-12431	MG	0.00	0.00	110.00
3630	-11743	-11809	-11810	-11744	MG	0.00	0.00	110.00
3630	-11809	-11863	-11877	-11810	MG	0.00	0.00	110.00
3630	-11863	-11937	-11967	-11877	MG	0.00	0.00	110.00
3630	-11937	-12034	-12061	-11967	MG	0.00	0.00	110.00
3630	-12034	-12108	-12109	-12061	MG	0.00	0.00	110.00
3630	-12108	-12225	-12226	-12109	MG	0.00	0.00	110.00
3630	-12225	-12297	-12298	-12226	MG	0.00	0.00	110.00
3630	-12297	-12365	-12366	-12298	MG	0.00	0.00	110.00
3630	-12365	-12431	-12432	-12366	MG	0.00	0.00	110.00
3630	-12431	-12511	-12512	-12432	MG	0.00	0.00	110.00
3630	-11744	-11810	-11811	-11745	MG	0.00	0.00	110.00
3630	-11810	-11877	-11864	-11811	MG	0.00	0.00	110.00
3630	-11877	-11967	-11938	-11864	MG	0.00	0.00	110.00
3630	-11967	-12061	-12020	-11938	MG	0.00	0.00	110.00
3630	-12061	-12109	-12110	-12020	MG	0.00	0.00	110.00
3630	-12109	-12226	-12227	-12110	MG	0.00	0.00	110.00
3630	-12226	-12298	-12299	-12227	MG	0.00	0.00	110.00
3630	-12298	-12366	-12367	-12299	MG	0.00	0.00	110.00
3630	-12366	-12432	-12433	-12367	MG	0.00	0.00	110.00
3630	-12432	-12512	-12513	-12433	MG	0.00	0.00	110.00
3630	-11745	-11811	-11812	-11746	MG	0.00	0.00	110.00
3630	-11811	-11864	-11865	-11812	MG	0.00	0.00	110.00
3630	-11864	-11938	-11996	-11865	MG	0.00	0.00	110.00
3630	-11938	-12020	-12062	-11996	MG	0.00	0.00	110.00
3630	-12020	-12110	-12159	-12062	MG	0.00	0.00	110.00
3630	-12110	-12227	-12228	-12159	MG	0.00	0.00	110.00
3630	-12227	-12299	-12300	-12228	MG	0.00	0.00	110.00

3630	-12299	-12367	-12368	-12300	MG	0.00	0.00	110.00
3630	-12367	-12433	-12434	-12368	MG	0.00	0.00	110.00
3630	-12433	-12513	-12525	-12434	MG	0.00	0.00	110.00
3630	-11746	-11812	-11813	-11747	MG	0.00	0.00	110.00
3630	-11812	-11865	-11878	-11813	MG	0.00	0.00	110.00
3630	-11865	-11996	-11948	-11878	MG	0.00	0.00	110.00
3630	-11996	-12062	-12063	-11948	MG	0.00	0.00	110.00
3630	-12062	-12159	-12170	-12063	MG	0.00	0.00	110.00
3630	-12159	-12228	-12229	-12170	MG	0.00	0.00	110.00
3630	-12228	-12300	-12301	-12229	MG	0.00	0.00	110.00
3630	-12300	-12368	-12369	-12301	MG	0.00	0.00	110.00
3630	-12368	-12434	-12435	-12369	MG	0.00	0.00	110.00
3630	-12434	-12525	-12514	-12435	MG	0.00	0.00	110.00
3630	-11747	-11813	-11814	-11748	MG	0.00	0.00	110.00
3630	-11813	-11878	-11866	-11814	MG	0.00	0.00	110.00
3630	-11878	-11948	-11968	-11866	MG	0.00	0.00	110.00
3630	-11948	-12063	-12035	-11968	MG	0.00	0.00	110.00
3630	-12063	-12170	-12144	-12035	MG	0.00	0.00	110.00
3630	-12170	-12229	-12230	-12144	MG	0.00	0.00	110.00
3630	-12229	-12301	-12302	-12230	MG	0.00	0.00	110.00
3630	-12301	-12369	-12370	-12302	MG	0.00	0.00	110.00
3630	-12369	-12435	-12436	-12370	MG	0.00	0.00	110.00
3630	-12435	-12514	-12515	-12436	MG	0.00	0.00	110.00
3630	-11748	-11814	-11815	-11749	MG	0.00	0.00	110.00
3630	-11814	-11866	-11879	-11815	MG	0.00	0.00	110.00
3630	-11866	-11968	-11969	-11879	MG	0.00	0.00	110.00
3630	-11968	-12035	-12096	-11969	MG	0.00	0.00	110.00
3630	-12035	-12144	-12185	-12096	MG	0.00	0.00	110.00
3630	-12144	-12230	-12231	-12185	MG	0.00	0.00	110.00
3630	-12230	-12302	-12303	-12231	MG	0.00	0.00	110.00
3630	-12302	-12370	-12371	-12303	MG	0.00	0.00	110.00
3630	-12370	-12436	-12437	-12371	MG	0.00	0.00	110.00
3630	-12436	-12515	-12516	-12437	MG	0.00	0.00	110.00
3630	-11749	-11815	-11816	-11750	MG	0.00	0.00	110.00
3630	-11815	-11879	-11880	-11816	MG	0.00	0.00	110.00
3630	-11879	-11969	-11997	-11880	MG	0.00	0.00	110.00
3630	-11969	-12096	-12021	-11997	MG	0.00	0.00	110.00
3630	-12096	-12185	-12111	-12021	MG	0.00	0.00	110.00
3630	-12185	-12231	-12232	-12111	MG	0.00	0.00	110.00
3630	-12231	-12303	-12304	-12232	MG	0.00	0.00	110.00
3630	-12303	-12371	-12372	-12304	MG	0.00	0.00	110.00
3630	-12371	-12437	-12438	-12372	MG	0.00	0.00	110.00
3630	-12437	-12516	-12526	-12438	MG	0.00	0.00	110.00
3630	-11750	-11816	-11817	-11751	MG	0.00	0.00	110.00
3630	-11816	-11880	-11881	-11817	MG	0.00	0.00	110.00
3630	-11880	-11997	-11970	-11881	MG	0.00	0.00	110.00
3630	-11997	-12021	-12064	-11970	MG	0.00	0.00	110.00
3630	-12021	-12111	-12112	-12064	MG	0.00	0.00	110.00
3630	-12111	-12232	-12233	-12112	MG	0.00	0.00	110.00
3630	-12232	-12304	-12305	-12233	MG	0.00	0.00	110.00
3630	-12304	-12372	-12373	-12305	MG	0.00	0.00	110.00
3630	-12372	-12438	-12439	-12373	MG	0.00	0.00	110.00
3630	-12438	-12526	-12527	-12439	MG	0.00	0.00	110.00
3630	-11751	-11817	-11818	-11752	MG	0.00	0.00	110.00
3630	-11817	-11881	-11882	-11818	MG	0.00	0.00	110.00
3630	-11881	-11970	-12009	-11882	MG	0.00	0.00	110.00
3630	-11970	-12064	-12097	-12009	MG	0.00	0.00	110.00
3630	-12064	-12112	-12160	-12097	MG	0.00	0.00	110.00
3630	-12112	-12233	-12234	-12160	MG	0.00	0.00	110.00
3630	-12233	-12305	-12306	-12234	MG	0.00	0.00	110.00
3630	-12305	-12373	-12374	-12306	MG	0.00	0.00	110.00
3630	-12373	-12439	-12440	-12374	MG	0.00	0.00	110.00
3630	-12439	-12527	-12547	-12440	MG	0.00	0.00	110.00
3630	-10277	-10338	-10339	-10278	MG	0.00	0.00	110.00
3630	-10338	-10416	-10417	-10339	MG	0.00	0.00	110.00
3630	-10416	-10486	-10487	-10417	MG	0.00	0.00	110.00
3630	-10486	-10581	-10551	-10487	MG	0.00	0.00	110.00
3630	-10581	-10681	-10693	-10551	MG	0.00	0.00	110.00
3630	-10681	-10772	-10773	-10693	MG	0.00	0.00	110.00
3630	-10772	-10837	-10838	-10773	MG	0.00	0.00	110.00
3630	-10837	-10912	-10913	-10838	MG	0.00	0.00	110.00
3630	-10912	-10979	-10980	-10913	MG	0.00	0.00	110.00
3630	-10979	-11060	-11061	-10980	MG	0.00	0.00	110.00
3630	-10278	-10339	-10340	-10279	MG	0.00	0.00	110.00
3630	-10339	-10417	-10418	-10340	MG	0.00	0.00	110.00
3630	-10417	-10487	-10488	-10418	MG	0.00	0.00	110.00
3630	-10487	-10551	-10540	-10488	MG	0.00	0.00	110.00
3630	-10551	-10693	-10682	-10540	MG	0.00	0.00	110.00
3630	-10693	-10773	-10774	-10682	MG	0.00	0.00	110.00

3630	-10773	-10838	-10839	-10774	MG	0.00	0.00	110.00
3630	-10838	-10913	-10918	-10839	MG	0.00	0.00	110.00
3630	-10913	-10980	-10981	-10918	MG	0.00	0.00	110.00
3630	-10980	-11061	-11062	-10981	MG	0.00	0.00	110.00
3630	-10279	-10340	-10341	-10280	MG	0.00	0.00	110.00
3630	-10340	-10418	-10419	-10341	MG	0.00	0.00	110.00
3630	-10418	-10488	-10489	-10419	MG	0.00	0.00	110.00
3630	-10488	-10540	-10582	-10489	MG	0.00	0.00	110.00
3630	-10540	-10682	-10683	-10582	MG	0.00	0.00	110.00
3630	-10682	-10774	-10775	-10683	MG	0.00	0.00	110.00
3630	-10774	-10839	-10853	-10775	MG	0.00	0.00	110.00
3630	-11899	-12012	-12013	-11891	MG	0.00	0.00	110.00
3630	-10918	-10981	-10982	-10919	MG	0.00	0.00	110.00
3630	-10981	-11062	-11038	-10982	MG	0.00	0.00	110.00
3630	-10280	-10341	-10342	-10281	MG	0.00	0.00	110.00
3630	-10341	-10419	-10420	-10342	MG	0.00	0.00	110.00
3630	-10419	-10489	-10490	-10420	MG	0.00	0.00	110.00
3630	-10489	-10582	-10583	-10490	MG	0.00	0.00	110.00
3630	-10582	-10683	-10694	-10583	MG	0.00	0.00	110.00
3630	-10683	-10775	-10776	-10694	MG	0.00	0.00	110.00
3630	-10775	-10853	-10807	-10776	MG	0.00	0.00	110.00
3630	-10853	-10919	-10920	-10807	MG	0.00	0.00	110.00
3630	-10919	-10982	-10983	-10920	MG	0.00	0.00	110.00
3630	-10982	-11038	-11063	-10983	MG	0.00	0.00	110.00
3630	-10281	-10342	-10343	-10282	MG	0.00	0.00	110.00
3630	-10342	-10420	-10435	-10343	MG	0.00	0.00	110.00
3630	-10420	-10490	-10491	-10435	MG	0.00	0.00	110.00
3630	-10490	-10583	-10584	-10491	MG	0.00	0.00	110.00
3630	-10583	-10694	-10695	-10584	MG	0.00	0.00	110.00
3630	-10694	-10776	-10777	-10695	MG	0.00	0.00	110.00
3630	-10776	-10807	-10840	-10777	MG	0.00	0.00	110.00
3630	-10807	-10920	-10921	-10840	MG	0.00	0.00	110.00
3630	-10920	-10983	-10984	-10921	MG	0.00	0.00	110.00
3630	-10983	-11063	-11050	-10984	MG	0.00	0.00	110.00
3630	-10282	-10343	-10344	-10283	MG	0.00	0.00	110.00
3630	-10343	-10435	-10421	-10344	MG	0.00	0.00	110.00
3630	-10435	-10491	-10492	-10421	MG	0.00	0.00	110.00
3630	-10491	-10584	-10585	-10492	MG	0.00	0.00	110.00
3630	-10584	-10695	-10696	-10585	MG	0.00	0.00	110.00
3630	-10695	-10777	-10778	-10696	MG	0.00	0.00	110.00
3630	-10777	-10840	-10854	-10778	MG	0.00	0.00	110.00
3630	-10840	-10921	-10892	-10854	MG	0.00	0.00	110.00
3630	-10921	-10984	-10985	-10892	MG	0.00	0.00	110.00
3630	-10984	-11050	-11051	-10985	MG	0.00	0.00	110.00
3630	-10283	-10344	-10357	-10284	MG	0.00	0.00	110.00
3630	-10344	-10421	-10436	-10357	MG	0.00	0.00	110.00
3630	-10421	-10492	-10493	-10436	MG	0.00	0.00	110.00
3630	-10492	-10585	-10586	-10493	MG	0.00	0.00	110.00
3630	-10585	-10696	-10684	-10586	MG	0.00	0.00	110.00
3630	-10696	-10778	-10779	-10684	MG	0.00	0.00	110.00
3630	-10778	-10854	-10855	-10779	MG	0.00	0.00	110.00
3630	-10854	-10892	-10922	-10855	MG	0.00	0.00	110.00
3630	-10892	-10985	-10986	-10922	MG	0.00	0.00	110.00
3630	-10985	-11051	-11064	-10986	MG	0.00	0.00	110.00
3630	-10284	-10357	-10345	-10285	MG	0.00	0.00	110.00
3630	-10357	-10436	-10437	-10345	MG	0.00	0.00	110.00
3630	-10436	-10493	-10494	-10437	MG	0.00	0.00	110.00
3630	-10493	-10586	-10610	-10494	MG	0.00	0.00	110.00
3630	-10586	-10684	-10697	-10610	MG	0.00	0.00	110.00
3630	-10684	-10779	-10780	-10697	MG	0.00	0.00	110.00
3630	-10779	-10855	-10856	-10780	MG	0.00	0.00	110.00
3630	-10855	-10922	-10923	-10856	MG	0.00	0.00	110.00
3630	-10922	-10986	-10987	-10923	MG	0.00	0.00	110.00
3630	-10986	-11064	-11065	-10987	MG	0.00	0.00	110.00
3630	-10285	-10345	-10346	-10286	MG	0.00	0.00	110.00
3630	-10345	-10437	-10438	-10346	MG	0.00	0.00	110.00
3630	-10437	-10494	-10495	-10438	MG	0.00	0.00	110.00
3630	-12390	-12456	-12457	-12391	MG	0.00	0.00	110.00
3630	-10610	-10697	-10698	-10552	MG	0.00	0.00	110.00
3630	-10697	-10780	-10781	-10698	MG	0.00	0.00	110.00
3630	-10780	-10856	-10841	-10781	MG	0.00	0.00	110.00
3630	-10856	-10923	-10924	-10841	MG	0.00	0.00	110.00
3630	-10923	-10987	-10988	-10924	MG	0.00	0.00	110.00
3630	-10987	-11065	-11066	-10988	MG	0.00	0.00	110.00
3630	-10286	-10346	-10347	-10287	MG	0.00	0.00	110.00
3630	-10346	-10438	-10439	-10347	MG	0.00	0.00	110.00
3630	-10438	-10495	-10496	-10439	MG	0.00	0.00	110.00
3630	-10495	-10552	-10631	-10496	MG	0.00	0.00	110.00
3630	-10552	-10698	-10699	-10631	MG	0.00	0.00	110.00

3630	-10698	-10781	-10782	-10699	MG	0.00	0.00	110.00
3630	-10781	-10841	-10857	-10782	MG	0.00	0.00	110.00
3630	-10841	-10924	-10925	-10857	MG	0.00	0.00	110.00
3630	-10924	-10988	-10989	-10925	MG	0.00	0.00	110.00
3630	-10988	-11066	-11067	-10989	MG	0.00	0.00	110.00
3630	-10287	-10347	-10358	-10288	MG	0.00	0.00	110.00
3630	-10347	-10439	-10422	-10358	MG	0.00	0.00	110.00
3630	-10439	-10496	-10497	-10422	MG	0.00	0.00	110.00
3630	-10496	-10631	-10587	-10497	MG	0.00	0.00	110.00
3630	-10631	-10699	-10685	-10587	MG	0.00	0.00	110.00
3630	-10699	-10782	-10783	-10685	MG	0.00	0.00	110.00
3630	-10782	-10857	-10808	-10783	MG	0.00	0.00	110.00
3630	-10857	-10925	-10926	-10808	MG	0.00	0.00	110.00
3630	-10925	-10989	-10990	-10926	MG	0.00	0.00	110.00
3630	-10989	-11067	-11068	-10990	MG	0.00	0.00	110.00
3630	-10288	-10358	-10359	3501	MG	0.00	0.00	110.00
3630	-10358	-10422	-10440	-10359	MG	0.00	0.00	110.00
3630	-10422	-10497	-10498	-10440	MG	0.00	0.00	110.00
3630	-10497	-10587	-10588	-10498	MG	0.00	0.00	110.00
3630	-10587	-10685	-10700	-10588	MG	0.00	0.00	110.00
3630	-10685	-10783	-10784	-10700	MG	0.00	0.00	110.00
3630	-10783	-10808	-10842	-10784	MG	0.00	0.00	110.00
3630	-10808	-10926	-10927	-10842	MG	0.00	0.00	110.00
3630	-10926	-10990	-10991	-10927	MG	0.00	0.00	110.00
3630	-10990	-11068	-11069	-10991	MG	0.00	0.00	110.00
3630	-13246	-13315	-13316	-13247	MG	0.00	0.00	110.00
3630	-13315	-13382	-13383	-13316	MG	0.00	0.00	110.00
3630	-13382	-13454	-13455	-13383	MG	0.00	0.00	110.00
3630	-13454	-13524	-13525	-13455	MG	0.00	0.00	110.00
3630	-13524	-13590	-13591	-13525	MG	0.00	0.00	110.00
3630	-13590	-13656	-13657	-13591	MG	0.00	0.00	110.00
3630	-13656	-13722	-13723	-13657	MG	0.00	0.00	110.00
3630	-13722	-13788	-13789	-13723	MG	0.00	0.00	110.00
3630	-13788	-13854	-13855	-13789	MG	0.00	0.00	110.00
3630	-13854	-13922	-13923	-13855	MG	0.00	0.00	110.00
3630	-13247	-13316	-13317	-13248	MG	0.00	0.00	110.00
3630	-13316	-13383	-13384	-13317	MG	0.00	0.00	110.00
3630	-13383	-13455	-13456	-13384	MG	0.00	0.00	110.00
3630	-13455	-13525	-13526	-13456	MG	0.00	0.00	110.00
3630	-13525	-13591	-13592	-13526	MG	0.00	0.00	110.00
3630	-13591	-13657	-13658	-13592	MG	0.00	0.00	110.00
3630	-13657	-13723	-13724	-13658	MG	0.00	0.00	110.00
3630	-13723	-13789	-13790	-13724	MG	0.00	0.00	110.00
3630	-13789	-13855	-13856	-13790	MG	0.00	0.00	110.00
3630	-13855	-13923	-13924	-13856	MG	0.00	0.00	110.00
3630	-13248	-13317	-13318	-13249	MG	0.00	0.00	110.00
3630	-13317	-13384	-13385	-13318	MG	0.00	0.00	110.00
3630	-13384	-13456	-13457	-13385	MG	0.00	0.00	110.00
3630	-13456	-13526	-13527	-13457	MG	0.00	0.00	110.00
3630	-13526	-13592	-13593	-13527	MG	0.00	0.00	110.00
3630	-13592	-13658	-13659	-13593	MG	0.00	0.00	110.00
3630	-13658	-13724	-13725	-13659	MG	0.00	0.00	110.00
3630	-13724	-13790	-13791	-13725	MG	0.00	0.00	110.00
3630	-13790	-13856	-13857	-13791	MG	0.00	0.00	110.00
3630	-13856	-13924	-13925	-13857	MG	0.00	0.00	110.00
3630	-13249	-13318	-13319	-13250	MG	0.00	0.00	110.00
3630	-13318	-13385	-13386	-13319	MG	0.00	0.00	110.00
3630	-13385	-13457	-13458	-13386	MG	0.00	0.00	110.00
3630	-13457	-13527	-13528	-13458	MG	0.00	0.00	110.00
3630	-13527	-13593	-13594	-13528	MG	0.00	0.00	110.00
3630	-13593	-13659	-13660	-13594	MG	0.00	0.00	110.00
3630	-13659	-13725	-13726	-13660	MG	0.00	0.00	110.00
3630	-13725	-13791	-13792	-13726	MG	0.00	0.00	110.00
3630	-13791	-13857	-13858	-13792	MG	0.00	0.00	110.00
3630	-13857	-13925	-13926	-13858	MG	0.00	0.00	110.00
3630	-13250	-13319	-13320	-13251	MG	0.00	0.00	110.00
3630	-13319	-13386	-13387	-13320	MG	0.00	0.00	110.00
3630	-13386	-13458	-13459	-13387	MG	0.00	0.00	110.00
3630	-13458	-13528	-13529	-13459	MG	0.00	0.00	110.00
3630	-13528	-13594	-13595	-13529	MG	0.00	0.00	110.00
3630	-13594	-13660	-13661	-13595	MG	0.00	0.00	110.00
3630	-13660	-13726	-13727	-13661	MG	0.00	0.00	110.00
3630	-13726	-13792	-13793	-13727	MG	0.00	0.00	110.00
3630	-13792	-13858	-13859	-13793	MG	0.00	0.00	110.00
3630	-13858	-13926	-13927	-13859	MG	0.00	0.00	110.00
3630	-13251	-13320	-13321	-13252	MG	0.00	0.00	110.00
3630	-13320	-13387	-13388	-13321	MG	0.00	0.00	110.00
3630	-13387	-13459	-13460	-13388	MG	0.00	0.00	110.00
3630	-13459	-13529	-13530	-13460	MG	0.00	0.00	110.00

3630	-13529	-13595	-13596	-13530	MG	0.00	0.00	110.00
3630	-11481	-11551	-11552	-11482	MG	0.00	0.00	110.00
3630	-13661	-13727	-13728	-13662	MG	0.00	0.00	110.00
3630	-13727	-13793	-13794	-13728	MG	0.00	0.00	110.00
3630	-13793	-13859	-13860	-13794	MG	0.00	0.00	110.00
3630	-13859	-13927	-13928	-13860	MG	0.00	0.00	110.00
3630	-13252	-13321	-13322	-13253	MG	0.00	0.00	110.00
3630	-13321	-13388	-13389	-13322	MG	0.00	0.00	110.00
3630	-13388	-13460	-13461	-13389	MG	0.00	0.00	110.00
3630	-13460	-13530	-13531	-13461	MG	0.00	0.00	110.00
3630	-13530	-13596	-13597	-13531	MG	0.00	0.00	110.00
3630	-13596	-13662	-13663	-13597	MG	0.00	0.00	110.00
3630	-13662	-13728	-13729	-13663	MG	0.00	0.00	110.00
3630	-13728	-13794	-13795	-13729	MG	0.00	0.00	110.00
3630	-13794	-13860	-13861	-13795	MG	0.00	0.00	110.00
3630	-13860	-13928	-13929	-13861	MG	0.00	0.00	110.00
3630	-13253	-13322	-13323	-13254	MG	0.00	0.00	110.00
3630	-13322	-13389	-13390	-13323	MG	0.00	0.00	110.00
3630	-13389	-13461	-13462	-13390	MG	0.00	0.00	110.00
3630	-13461	-13531	-13532	-13462	MG	0.00	0.00	110.00
3630	-13531	-13597	-13598	-13532	MG	0.00	0.00	110.00
3630	-13597	-13663	-13664	-13598	MG	0.00	0.00	110.00
3630	-13663	-13729	-13730	-13664	MG	0.00	0.00	110.00
3630	-13729	-13795	-13796	-13730	MG	0.00	0.00	110.00
3630	-13795	-13861	-13862	-13796	MG	0.00	0.00	110.00
3630	-13861	-13929	-13930	-13862	MG	0.00	0.00	110.00
3630	-13254	-13323	-13324	-13255	MG	0.00	0.00	110.00
3630	-13323	-13390	-13391	-13324	MG	0.00	0.00	110.00
3630	-13390	-13462	-13463	-13391	MG	0.00	0.00	110.00
3630	-13462	-13532	-13533	-13463	MG	0.00	0.00	110.00
3630	-13532	-13598	-13599	-13533	MG	0.00	0.00	110.00
3630	-13598	-13664	-13665	-13599	MG	0.00	0.00	110.00
3630	-13664	-13730	-13731	-13665	MG	0.00	0.00	110.00
3630	-13730	-13796	-13797	-13731	MG	0.00	0.00	110.00
3630	-13796	-13862	-13863	-13797	MG	0.00	0.00	110.00
3630	-13862	-13930	-13931	-13863	MG	0.00	0.00	110.00
3630	-13255	-13324	-13325	-13256	MG	0.00	0.00	110.00
3630	-13324	-13391	-13392	-13325	MG	0.00	0.00	110.00
3630	-13391	-13463	-13464	-13392	MG	0.00	0.00	110.00
3630	-13463	-13533	-13534	-13464	MG	0.00	0.00	110.00
3630	-13533	-13599	-13600	-13534	MG	0.00	0.00	110.00
3630	-13599	-13665	-13666	-13600	MG	0.00	0.00	110.00
3630	-13665	-13731	-13732	-13666	MG	0.00	0.00	110.00
3630	-13731	-13797	-13798	-13732	MG	0.00	0.00	110.00
3630	-13797	-13863	-13864	-13798	MG	0.00	0.00	110.00
3630	-13863	-13931	-13932	-13864	MG	0.00	0.00	110.00
3630	-13256	-13325	-13326	-13257	MG	0.00	0.00	110.00
3630	-13325	-13392	-13393	-13326	MG	0.00	0.00	110.00
3630	-13392	-13464	-13465	-13393	MG	0.00	0.00	110.00
3630	-13464	-13534	-13535	-13465	MG	0.00	0.00	110.00
3630	-13534	-13600	-13601	-13535	MG	0.00	0.00	110.00
3630	-13600	-13666	-13667	-13601	MG	0.00	0.00	110.00
3630	-13666	-13732	-13733	-13667	MG	0.00	0.00	110.00
3630	-13732	-13798	-13799	-13733	MG	0.00	0.00	110.00
3630	-13798	-13864	-13865	-13799	MG	0.00	0.00	110.00
3630	-13864	-13932	-13933	-13865	MG	0.00	0.00	110.00
3630	-13257	-13326	-13327	-13258	MG	0.00	0.00	110.00
3630	-13326	-13393	-13394	-13327	MG	0.00	0.00	110.00
3630	-13393	-13465	-13466	-13394	MG	0.00	0.00	110.00
3630	-13465	-13535	-13536	-13466	MG	0.00	0.00	110.00
3630	-13535	-13601	-13602	-13536	MG	0.00	0.00	110.00
3630	-13601	-13667	-13668	-13602	MG	0.00	0.00	110.00
3630	-13667	-13733	-13734	-13668	MG	0.00	0.00	110.00
3630	-13733	-13799	-13800	-13734	MG	0.00	0.00	110.00
3630	-13799	-13865	-13866	-13800	MG	0.00	0.00	110.00
3630	-13865	-13933	-13934	-13866	MG	0.00	0.00	110.00
3630	-12508	-12592	-12593	-12509	MG	0.00	0.00	110.00
3630	-12592	-12666	-12667	-12593	MG	0.00	0.00	110.00
3630	-12666	-12737	-12738	-12667	MG	0.00	0.00	110.00
3630	-12737	-12807	-12808	-12738	MG	0.00	0.00	110.00
3630	-12807	-12877	-12878	-12808	MG	0.00	0.00	110.00
3630	-12877	-12954	-12955	-12878	MG	0.00	0.00	110.00
3630	-12954	-13038	-13039	-12955	MG	0.00	0.00	110.00
3630	-13038	-13105	-13106	-13039	MG	0.00	0.00	110.00
3630	-13105	-13183	-13184	-13106	MG	0.00	0.00	110.00
3630	-13183	-13246	-13247	-13184	MG	0.00	0.00	110.00
3630	-12509	-12593	-12594	-12510	MG	0.00	0.00	110.00
3630	-12593	-12667	-12668	-12594	MG	0.00	0.00	110.00
3630	-12667	-12738	-12739	-12668	MG	0.00	0.00	110.00

3630	-12738	-12808	-12809	-12739	MG	0.00	0.00	110.00
3630	-12808	-12878	-12879	-12809	MG	0.00	0.00	110.00
3630	-12878	-12955	-12956	-12879	MG	0.00	0.00	110.00
3630	-12955	-13039	-13040	-12956	MG	0.00	0.00	110.00
3630	-13039	-13106	-13107	-13040	MG	0.00	0.00	110.00
3630	-13106	-13184	-13185	-13107	MG	0.00	0.00	110.00
3630	-13184	-13247	-13248	-13185	MG	0.00	0.00	110.00
3630	-12510	-12594	-12595	-12511	MG	0.00	0.00	110.00
3630	-12594	-12668	-12669	-12595	MG	0.00	0.00	110.00
3630	-12668	-12739	-12740	-12669	MG	0.00	0.00	110.00
3630	-12739	-12809	-12810	-12740	MG	0.00	0.00	110.00
3630	-12809	-12879	-12880	-12810	MG	0.00	0.00	110.00
3630	-12879	-12956	-12957	-12880	MG	0.00	0.00	110.00
3630	-12956	-13040	-13041	-12957	MG	0.00	0.00	110.00
3630	-13040	-13107	-13108	-13041	MG	0.00	0.00	110.00
3630	-13107	-13185	-13167	-13108	MG	0.00	0.00	110.00
3630	-13185	-13248	-13249	-13167	MG	0.00	0.00	110.00
3630	-12511	-12595	-12596	-12512	MG	0.00	0.00	110.00
3630	-12595	-12669	-12670	-12596	MG	0.00	0.00	110.00
3630	-12669	-12740	-12741	-12670	MG	0.00	0.00	110.00
3630	-12740	-12810	-12811	-12741	MG	0.00	0.00	110.00
3630	-12810	-12880	-12881	-12811	MG	0.00	0.00	110.00
3630	-12880	-12957	-12958	-12881	MG	0.00	0.00	110.00
3630	-12957	-13041	-13042	-12968	MG	0.00	0.00	110.00
3630	-13041	-13108	-13084	-13042	MG	0.00	0.00	110.00
3630	-13108	-13167	-13186	-13084	MG	0.00	0.00	110.00
3630	-13167	-13249	-13250	-13186	MG	0.00	0.00	110.00
3630	-12512	-12596	-12597	-12513	MG	0.00	0.00	110.00
3630	-12596	-12670	-12671	-12597	MG	0.00	0.00	110.00
3630	-12670	-12741	-12742	-12671	MG	0.00	0.00	110.00
3630	-12741	-12811	-12812	-12742	MG	0.00	0.00	110.00
3630	-12811	-12881	-12882	-12812	MG	0.00	0.00	110.00
3630	-12881	-12968	-12969	-12882	MG	0.00	0.00	110.00
3630	-12968	-13042	-13043	-12969	MG	0.00	0.00	110.00
3630	-13042	-13084	-13109	-13043	MG	0.00	0.00	110.00
3630	-13084	-13186	-13168	-13109	MG	0.00	0.00	110.00
3630	-13186	-13250	-13251	-13168	MG	0.00	0.00	110.00
3630	-12513	-12597	-12598	-12525	MG	0.00	0.00	110.00
3630	-12597	-12671	-12672	-12598	MG	0.00	0.00	110.00
3630	-12671	-12742	-12743	-12672	MG	0.00	0.00	110.00
3630	-12742	-12812	-12813	-12743	MG	0.00	0.00	110.00
3630	-12812	-12882	-12883	-12813	MG	0.00	0.00	110.00
3630	-12882	-12969	-12958	-12883	MG	0.00	0.00	110.00
3630	-12969	-13043	-13044	-12958	MG	0.00	0.00	110.00
3630	-13043	-13109	-13110	-13044	MG	0.00	0.00	110.00
3630	-13109	-13168	-13187	-13110	MG	0.00	0.00	110.00
3630	-13168	-13251	-13252	-13187	MG	0.00	0.00	110.00
3630	-12903	-12983	-12984	-12904	MG	0.00	0.00	110.00
3630	-12598	-12672	-12673	-12599	MG	0.00	0.00	110.00
3630	-12672	-12743	-12744	-12673	MG	0.00	0.00	110.00
3630	-12743	-12813	-12814	-12744	MG	0.00	0.00	110.00
3630	-12813	-12883	-12884	-12814	MG	0.00	0.00	110.00
3630	-12883	-12958	-12959	-12884	MG	0.00	0.00	110.00
3630	-12958	-13044	-13045	-12959	MG	0.00	0.00	110.00
3630	-13044	-13110	-13111	-13045	MG	0.00	0.00	110.00
3630	-13110	-13187	-13188	-13111	MG	0.00	0.00	110.00
3630	-13187	-13252	-13253	-13188	MG	0.00	0.00	110.00
3630	-12514	-12599	-12600	-12515	MG	0.00	0.00	110.00
3630	-12599	-12673	-12674	-12600	MG	0.00	0.00	110.00
3630	-12673	-12744	-12745	-12674	MG	0.00	0.00	110.00
3630	-12744	-12814	-12815	-12745	MG	0.00	0.00	110.00
3630	-12814	-12884	-12885	-12815	MG	0.00	0.00	110.00
3630	-12884	-12959	-12960	-12885	MG	0.00	0.00	110.00
3630	-12959	-13045	-13046	-12960	MG	0.00	0.00	110.00
3630	-13045	-13111	-13112	-13046	MG	0.00	0.00	110.00
3630	-13111	-13188	-13189	-13112	MG	0.00	0.00	110.00
3630	-13188	-13253	-13254	-13189	MG	0.00	0.00	110.00
3630	-12515	-12600	-12601	-12516	MG	0.00	0.00	110.00
3630	-12600	-12674	-12675	-12601	MG	0.00	0.00	110.00
3630	-12674	-12745	-12746	-12675	MG	0.00	0.00	110.00
3630	-12745	-12815	-12816	-12746	MG	0.00	0.00	110.00
3630	-12815	-12885	-12886	-12816	MG	0.00	0.00	110.00
3630	-12885	-12960	-12970	-12886	MG	0.00	0.00	110.00
3630	-12960	-13046	-13047	-12970	MG	0.00	0.00	110.00
3630	-13046	-13112	-13113	-13047	MG	0.00	0.00	110.00
3630	-13112	-13189	-13190	-13113	MG	0.00	0.00	110.00
3630	-13189	-13254	-13255	-13190	MG	0.00	0.00	110.00
3630	-12516	-12601	-12602	-12526	MG	0.00	0.00	110.00
3630	-12601	-12675	-12676	-12602	MG	0.00	0.00	110.00



3630	-12675	-12746	-12747	-12676	MG	0.00	0.00	110.00
3630	-12746	-12816	-12817	-12747	MG	0.00	0.00	110.00
3630	-12816	-12886	-12887	-12817	MG	0.00	0.00	110.00
3630	-12886	-12970	-12961	-12887	MG	0.00	0.00	110.00
3630	-12970	-13047	-13048	-12961	MG	0.00	0.00	110.00
3630	-13047	-13113	-13114	-13048	MG	0.00	0.00	110.00
3630	-13113	-13190	-13169	-13114	MG	0.00	0.00	110.00
3630	-13190	-13255	-13256	-13169	MG	0.00	0.00	110.00
3630	-12526	-12602	-12603	-12527	MG	0.00	0.00	110.00
3630	-12602	-12676	-12677	-12603	MG	0.00	0.00	110.00
3630	-12676	-12747	-12748	-12677	MG	0.00	0.00	110.00
3630	-12747	-12817	-12818	-12748	MG	0.00	0.00	110.00
3630	-12817	-12887	-12888	-12818	MG	0.00	0.00	110.00
3630	-12887	-12961	-12971	-12888	MG	0.00	0.00	110.00
3630	-12961	-13048	-13049	-12971	MG	0.00	0.00	110.00
3630	-13048	-13114	-13115	-13049	MG	0.00	0.00	110.00
3630	-13114	-13169	-13191	-13115	MG	0.00	0.00	110.00
3630	-13169	-13256	-13257	-13191	MG	0.00	0.00	110.00
3630	-12527	-12603	-12604	-12547	MG	0.00	0.00	110.00
3630	-12603	-12677	-12678	-12604	MG	0.00	0.00	110.00
3630	-12677	-12748	-12749	-12678	MG	0.00	0.00	110.00
3630	-12748	-12818	-12819	-12749	MG	0.00	0.00	110.00
3630	-12818	-12888	-12889	-12819	MG	0.00	0.00	110.00
3630	-12888	-12971	-12972	-12889	MG	0.00	0.00	110.00
3630	-12971	-13049	-13050	-12972	MG	0.00	0.00	110.00
3630	-13049	-13115	-13127	-13050	MG	0.00	0.00	110.00
3630	-13115	-13191	-13192	-13127	MG	0.00	0.00	110.00
3630	-13191	-13257	-13258	-13192	MG	0.00	0.00	110.00
3630	-11060	-11122	-11123	-11061	MG	0.00	0.00	110.00
3630	-11122	-11188	-11189	-11123	MG	0.00	0.00	110.00
3630	-11188	-11254	-11255	-11189	MG	0.00	0.00	110.00
3630	-11254	-11326	-11327	-11255	MG	0.00	0.00	110.00
3630	-11326	-11392	-11393	-11327	MG	0.00	0.00	110.00
3630	-11392	-11462	-11463	-11393	MG	0.00	0.00	110.00
3630	-11462	-11532	-11533	-11463	MG	0.00	0.00	110.00
3630	-11532	-11602	-11603	-11533	MG	0.00	0.00	110.00
3630	-11602	-11676	-11677	-11603	MG	0.00	0.00	110.00
3630	-11676	-11740	-11741	-11677	MG	0.00	0.00	110.00
3630	-11061	-11123	-11124	-11062	MG	0.00	0.00	110.00
3630	-11123	-11189	-11190	-11124	MG	0.00	0.00	110.00
3630	-11189	-11255	-11256	-11190	MG	0.00	0.00	110.00
3630	-11255	-11327	-11328	-11256	MG	0.00	0.00	110.00
3630	-11327	-11393	-11394	-11328	MG	0.00	0.00	110.00
3630	-11393	-11463	-11464	-11394	MG	0.00	0.00	110.00
3630	-11463	-11533	-11534	-11464	MG	0.00	0.00	110.00
3630	-11533	-11603	-11604	-11534	MG	0.00	0.00	110.00
3630	-11603	-11677	-11663	-11604	MG	0.00	0.00	110.00
3630	-11677	-11741	-11742	-11663	MG	0.00	0.00	110.00
3630	-11062	-11124	-11125	-11038	MG	0.00	0.00	110.00
3630	-11124	-11190	-11191	-11125	MG	0.00	0.00	110.00
3630	-11190	-11256	-11257	-11191	MG	0.00	0.00	110.00
3630	-11256	-11328	-11329	-11257	MG	0.00	0.00	110.00
3630	-11328	-11394	-11395	-11329	MG	0.00	0.00	110.00
3630	-11394	-11464	-11465	-11395	MG	0.00	0.00	110.00
3630	-11464	-11534	-11535	-11465	MG	0.00	0.00	110.00
3630	-11534	-11604	-11605	-11535	MG	0.00	0.00	110.00
3630	-11604	-11663	-11664	-11605	MG	0.00	0.00	110.00
3630	-11663	-11742	-11743	-11664	MG	0.00	0.00	110.00
3630	-11038	-11125	-11126	-11063	MG	0.00	0.00	110.00
3630	-11125	-11191	-11192	-11126	MG	0.00	0.00	110.00
3630	-11191	-11257	-11258	-11192	MG	0.00	0.00	110.00
3630	-11257	-11329	-11330	-11258	MG	0.00	0.00	110.00
3630	-11329	-11395	-11396	-11330	MG	0.00	0.00	110.00
3630	-11395	-11465	-11466	-11396	MG	0.00	0.00	110.00
3630	-11465	-11535	-11536	-11466	MG	0.00	0.00	110.00
3630	-11535	-11605	-11606	-11536	MG	0.00	0.00	110.00
3630	-11605	-11664	-11678	-11606	MG	0.00	0.00	110.00
3630	-11664	-11743	-11744	-11678	MG	0.00	0.00	110.00
3630	-11063	-11126	-11127	-11050	MG	0.00	0.00	110.00
3630	-11126	-11192	-11193	-11127	MG	0.00	0.00	110.00
3630	-11192	-11258	-11259	-11193	MG	0.00	0.00	110.00
3630	-11258	-11330	-11331	-11259	MG	0.00	0.00	110.00
3630	-11330	-11396	-11397	-11331	MG	0.00	0.00	110.00
3630	-11396	-11466	-11467	-11397	MG	0.00	0.00	110.00
3630	-11466	-11536	-11537	-11467	MG	0.00	0.00	110.00
3630	-11536	-11606	-11607	-11537	MG	0.00	0.00	110.00
3630	-11606	-11678	-11665	-11607	MG	0.00	0.00	110.00
3630	-11678	-11744	-11745	-11665	MG	0.00	0.00	110.00
3630	-11050	-11127	-11128	-11051	MG	0.00	0.00	110.00

3630	-11127	-11193	-11194	-11128	MG	0.00	0.00	110.00
3630	-11193	-11259	-11260	-11194	MG	0.00	0.00	110.00
3630	-11259	-11331	-11332	-11260	MG	0.00	0.00	110.00
3630	-11331	-11397	-11398	-11332	MG	0.00	0.00	110.00
3630	-11397	-11467	-11468	-11398	MG	0.00	0.00	110.00
3630	-11467	-11537	-11538	-11468	MG	0.00	0.00	110.00
3630	-11537	-11607	-11608	-11538	MG	0.00	0.00	110.00
3630	-11607	-11665	-11666	-11608	MG	0.00	0.00	110.00
3630	-11665	-11745	-11746	-11666	MG	0.00	0.00	110.00
3630	-11051	-11128	-11129	-11064	MG	0.00	0.00	110.00
3630	-11128	-11194	-11195	-11129	MG	0.00	0.00	110.00
3630	-11194	-11260	-11261	-11195	MG	0.00	0.00	110.00
3630	-11260	-11332	-11333	-11261	MG	0.00	0.00	110.00
3630	-11332	-11398	-11399	-11333	MG	0.00	0.00	110.00
3630	-11398	-11468	-11469	-11399	MG	0.00	0.00	110.00
3630	-11468	-11538	-11539	-11469	MG	0.00	0.00	110.00
3630	-11538	-11608	-11609	-11539	MG	0.00	0.00	110.00
3630	-11608	-11666	-11679	-11609	MG	0.00	0.00	110.00
3630	-11666	-11746	-11747	-11679	MG	0.00	0.00	110.00
3630	-11064	-11129	-11130	-11065	MG	0.00	0.00	110.00
3630	-11129	-11195	-11196	-11130	MG	0.00	0.00	110.00
3630	-11195	-11261	-11262	-11196	MG	0.00	0.00	110.00
3630	-11261	-11333	-11334	-11262	MG	0.00	0.00	110.00
3630	-11333	-11399	-11400	-11334	MG	0.00	0.00	110.00
3630	-11399	-11469	-11470	-11400	MG	0.00	0.00	110.00
3630	-11469	-11539	-11540	-11470	MG	0.00	0.00	110.00
3630	-11539	-11609	-11610	-11540	MG	0.00	0.00	110.00
3630	-11609	-11679	-11679	-11610	MG	0.00	0.00	110.00
3630	-11679	-11747	-11748	-11667	MG	0.00	0.00	110.00
3630	-11065	-11130	-11131	-11066	MG	0.00	0.00	110.00
3630	-11130	-11196	-11197	-11131	MG	0.00	0.00	110.00
3630	-11196	-11262	-11263	-11197	MG	0.00	0.00	110.00
3630	-11262	-11334	-11335	-11263	MG	0.00	0.00	110.00
3630	-11334	-11400	-11401	-11335	MG	0.00	0.00	110.00
3630	-11400	-11470	-11471	-11401	MG	0.00	0.00	110.00
3630	-11470	-11540	-11541	-11471	MG	0.00	0.00	110.00
3630	-11540	-11610	-11611	-11541	MG	0.00	0.00	110.00
3630	-11610	-11667	-11680	-11611	MG	0.00	0.00	110.00
3630	-11667	-11748	-11749	-11680	MG	0.00	0.00	110.00
3630	-11066	-11131	-11132	-11067	MG	0.00	0.00	110.00
3630	-11131	-11197	-11198	-11132	MG	0.00	0.00	110.00
3630	-11197	-11263	-11264	-11198	MG	0.00	0.00	110.00
3630	-11263	-11335	-11336	-11264	MG	0.00	0.00	110.00
3630	-11335	-11401	-11402	-11336	MG	0.00	0.00	110.00
3630	-11401	-11471	-11472	-11402	MG	0.00	0.00	110.00
3630	-11471	-11541	-11542	-11472	MG	0.00	0.00	110.00
3630	-11541	-11611	-11612	-11542	MG	0.00	0.00	110.00
3630	-11611	-11680	-11681	-11612	MG	0.00	0.00	110.00
3630	-11680	-11749	-11750	-11681	MG	0.00	0.00	110.00
3630	-11067	-11132	-11133	-11068	MG	0.00	0.00	110.00
3630	-11132	-11198	-11199	-11133	MG	0.00	0.00	110.00
3630	-11198	-11264	-11265	-11199	MG	0.00	0.00	110.00
3630	-11264	-11336	-11337	-11265	MG	0.00	0.00	110.00
3630	-11336	-11402	-11403	-11337	MG	0.00	0.00	110.00
3630	-11402	-11472	-11473	-11403	MG	0.00	0.00	110.00
3630	-11472	-11542	-11543	-11473	MG	0.00	0.00	110.00
3630	-11542	-11612	-11613	-11543	MG	0.00	0.00	110.00
3630	-11612	-11681	-11685	-11613	MG	0.00	0.00	110.00
3630	-11681	-11750	-11751	-11685	MG	0.00	0.00	110.00
3630	-11068	-11133	-11134	-11069	MG	0.00	0.00	110.00
3630	-11493	-11563	-11564	-11494	MG	0.00	0.00	110.00
3630	-11199	-11265	-11266	-11200	MG	0.00	0.00	110.00
3630	-11265	-11337	-11338	-11266	MG	0.00	0.00	110.00
3630	-11337	-11403	-11404	-11338	MG	0.00	0.00	110.00
3630	-11345	-11411	-11412	-11346	MG	0.00	0.00	110.00
3630	-11411	-11481	-11482	-11412	MG	0.00	0.00	110.00
3630	-12450	-12535	-12549	-12451	MG	0.00	0.00	110.00
3630	-11551	-11621	-11622	-11552	MG	0.00	0.00	110.00
3630	-11621	-11693	-11694	-11622	MG	0.00	0.00	110.00
3630	-10376	-10426	-10427	-10366	MG	0.00	0.00	110.00
3630	-10426	-10506	-10507	-10427	MG	0.00	0.00	110.00
3630	-14006	-14005	-14063	-14077	MG	0.00	0.00	110.00
3630	-14005	-14004	-14076	-14063	MG	0.00	0.00	110.00
3630	-14077	-14063	-14140	-14141	MG	0.00	0.00	110.00
3630	-14063	-14076	-14139	-14140	MG	0.00	0.00	110.00
3630	-14141	-14140	-14206	-14207	MG	0.00	0.00	110.00
3630	-14140	-14139	-14205	-14206	MG	0.00	0.00	110.00
3630	-14207	-14206	-14272	-14273	MG	0.00	0.00	110.00
3630	-10296	-10366	-10367	-10297	MG	0.00	0.00	110.00

3630	-14273	-14272	-14338	-14339	MG	0.00	0.00	110.00
3630	-10427	-10507	-10508	-10428	MG	0.00	0.00	110.00
3630	-14339	-14338	-14404	-14405	MG	0.00	0.00	110.00
3630	-14338	-14337	-14403	-14404	MG	0.00	0.00	110.00
3630	-14405	-14404	-14470	-14471	MG	0.00	0.00	110.00
3630	-10793	-10863	-10864	-10794	MG	0.00	0.00	110.00
3630	-10863	-10894	-10914	-10864	MG	0.00	0.00	110.00
3630	-10894	-11000	-11001	-10914	MG	0.00	0.00	110.00
3630	-11000	-11078	-11079	-11001	MG	0.00	0.00	110.00
3630	-10297	-10367	-10368	-10298	MG	0.00	0.00	110.00
3630	-15271	-15270	-15336	-15337	MG	0.00	0.00	110.00
3630	-15337	-15336	-15402	-15403	MG	0.00	0.00	110.00
3630	-15403	-15402	-15468	-15469	MG	0.00	0.00	110.00
3630	-10569	-10709	-10710	-10593	MG	0.00	0.00	110.00
3630	-10709	-10794	-10795	-10710	MG	0.00	0.00	110.00
3630	-10794	-10864	-10865	-10795	MG	0.00	0.00	110.00
3630	-10864	-10914	-10935	-10865	MG	0.00	0.00	110.00
3630	-10914	-11001	-11002	-10935	MG	0.00	0.00	110.00
3630	-11001	-11079	-11080	-11002	MG	0.00	0.00	110.00
3630	-10298	-10368	-10369	-10299	MG	0.00	0.00	110.00
3630	-10368	-10429	-10445	-10369	MG	0.00	0.00	110.00
3630	-10429	-10509	-10510	-10445	MG	0.00	0.00	110.00
3630	-10509	-10593	-10619	-10510	MG	0.00	0.00	110.00
3630	-11552	-11622	-11623	-11553	MG	0.00	0.00	110.00
3630	-12248	-12320	-12321	-12249	MG	0.00	0.00	110.00
3630	-11694	-11760	-11761	-11695	MG	0.00	0.00	110.00
3630	-10865	-10935	-10936	-10866	MG	0.00	0.00	110.00
3630	-10935	-11002	-11003	-10936	MG	0.00	0.00	110.00
3630	-11002	-11080	-11081	-11003	MG	0.00	0.00	110.00
3630	-13412	-13484	-13485	-13413	MG	0.00	0.00	110.00
3630	-13484	-13554	-13555	-13485	MG	0.00	0.00	110.00
3630	-12000	-12070	-12023	-11973	MG	0.00	0.00	110.00
3630	-12070	-12165	-12121	-12023	MG	0.00	0.00	110.00
3630	-13686	-13752	-13753	-13687	MG	0.00	0.00	110.00
3630	-10711	-10796	-10797	-10712	MG	0.00	0.00	110.00
3630	-10796	-10866	-10867	-10797	MG	0.00	0.00	110.00
3630	-11079	-11144	-11145	-11080	MG	0.00	0.00	110.00
3630	-13277	-13346	-13347	-13278	MG	0.00	0.00	110.00
3630	-11768	-11834	-11835	-11769	MG	0.00	0.00	110.00
3630	-11834	-11902	-11903	-11835	MG	0.00	0.00	110.00
3630	-10377	-10446	-10447	-10370	MG	0.00	0.00	110.00
3630	-11973	-12023	-12055	-12001	MG	0.00	0.00	110.00
3630	-13621	-13687	-13688	-13622	MG	0.00	0.00	110.00
3630	-10524	-10712	-10713	-10594	MG	0.00	0.00	110.00
3630	-10712	-10797	-10798	-10713	MG	0.00	0.00	110.00
3630	-12322	-12390	-12391	-12323	MG	0.00	0.00	110.00
3630	-13885	-13953	-13954	-13886	MG	0.00	0.00	110.00
3630	-12534	-12612	-12613	-12548	MG	0.00	0.00	110.00
3630	-12612	-12686	-12687	-12613	MG	0.00	0.00	110.00
3630	-10301	-10370	-10371	-10302	MG	0.00	0.00	110.00
3630	-10370	-10447	-10430	-10371	MG	0.00	0.00	110.00
3630	-10447	-10512	-10513	-10430	MG	0.00	0.00	110.00
3630	-10512	-10594	-10595	-10513	MG	0.00	0.00	110.00
3630	-10594	-10713	-10714	-10595	MG	0.00	0.00	110.00
3630	-13058	-13120	-13130	-13059	MG	0.00	0.00	110.00
3630	-13120	-13200	-13201	-13130	MG	0.00	0.00	110.00
3630	-13200	-13266	-13267	-13201	MG	0.00	0.00	110.00
3630	-10938	-11005	-11006	-10939	MG	0.00	0.00	110.00
3630	-11005	-11083	-11084	-11006	MG	0.00	0.00	110.00
3630	-10302	-10371	-10378	-10303	MG	0.00	0.00	110.00
3630	-10371	-10430	-10431	-10378	MG	0.00	0.00	110.00
3630	-10430	-10513	-10514	-10431	MG	0.00	0.00	110.00
3630	-10513	-10595	-10596	-10514	MG	0.00	0.00	110.00
3630	-10595	-10714	-10715	-10596	MG	0.00	0.00	110.00
3630	-10714	-10799	-10800	-10715	MG	0.00	0.00	110.00
3630	-10799	-10868	-10869	-10800	MG	0.00	0.00	110.00
3630	-10868	-10939	-10940	-10869	MG	0.00	0.00	110.00
3630	-12535	-12614	-12615	-12549	MG	0.00	0.00	110.00
3630	-12614	-12688	-12689	-12615	MG	0.00	0.00	110.00
3630	-10303	-10378	-10379	-10304	MG	0.00	0.00	110.00
3630	-10378	-10431	-10448	-10379	MG	0.00	0.00	110.00
3630	-10431	-10514	-10515	-10448	MG	0.00	0.00	110.00
3630	-10514	-10596	-10626	-10515	MG	0.00	0.00	110.00
3630	-12979	-13060	-13061	-12980	MG	0.00	0.00	110.00
3630	-10715	-10800	-10801	-10716	MG	0.00	0.00	110.00
3630	-10800	-10869	-10870	-10801	MG	0.00	0.00	110.00
3630	-10869	-10940	-10941	-10870	MG	0.00	0.00	110.00
3630	-10940	-11007	-11008	-10941	MG	0.00	0.00	110.00
3630	-11007	-11039	-11085	-11008	MG	0.00	0.00	110.00

3630	-10304	-10379	-10372	-10305	MG	0.00	0.00	110.00
3630	-12760	-12830	-12831	-12761	MG	0.00	0.00	110.00
3630	-12830	-12900	-12901	-12831	MG	0.00	0.00	110.00
3630	-12900	-12980	-12981	-12901	MG	0.00	0.00	110.00
3630	-12980	-13061	-13062	-12981	MG	0.00	0.00	110.00
3630	-10716	-10801	-10802	-10686	MG	0.00	0.00	110.00
3630	-10801	-10870	-10871	-10802	MG	0.00	0.00	110.00
3630	-10870	-10941	-10942	-10871	MG	0.00	0.00	110.00
3630	-10941	-11008	-11009	-10942	MG	0.00	0.00	110.00
3630	-12616	-12690	-12691	-12617	MG	0.00	0.00	110.00
3630	-10305	-10372	-10380	-10306	MG	0.00	0.00	110.00
3630	-10372	-10449	-10450	-10380	MG	0.00	0.00	110.00
3630	-12831	-12901	-12902	-12832	MG	0.00	0.00	110.00
3630	-12901	-12981	-12982	-12902	MG	0.00	0.00	110.00
3630	-10597	-10686	-10717	-10598	MG	0.00	0.00	110.00
3630	-10686	-10802	-10803	-10717	MG	0.00	0.00	110.00
3630	-10802	-10871	-10872	-10803	MG	0.00	0.00	110.00
3630	-10871	-10942	-10943	-10872	MG	0.00	0.00	110.00
3630	-10942	-11009	-11010	-10943	MG	0.00	0.00	110.00
3630	-11009	-11086	-11087	-11010	MG	0.00	0.00	110.00
3630	-12691	-12762	-12763	-12692	MG	0.00	0.00	110.00
3630	-12762	-12832	-12833	-12763	MG	0.00	0.00	110.00
3630	-10450	-10517	-10518	-10451	MG	0.00	0.00	110.00
3630	-10517	-10598	-10627	-10518	MG	0.00	0.00	110.00
3630	-10598	-10717	-10718	-10627	MG	0.00	0.00	110.00
3630	-10717	-10803	-10804	-10718	MG	0.00	0.00	110.00
3630	-10803	-10872	-10873	-10804	MG	0.00	0.00	110.00
3630	-10872	-10943	-10944	-10873	MG	0.00	0.00	110.00
3630	-10943	-11010	-11011	-10944	MG	0.00	0.00	110.00
3630	-11010	-11087	-11088	-11011	MG	0.00	0.00	110.00
3630	-11760	-11826	-11827	-11761	MG	0.00	0.00	110.00
3630	-11826	-11898	-11899	-11827	MG	0.00	0.00	110.00
3630	-12833	-12903	-12904	-12834	MG	0.00	0.00	110.00
3630	-11940	-12053	-12068	-12011	MG	0.00	0.00	110.00
3630	-12053	-12163	-12146	-12068	MG	0.00	0.00	110.00
3630	-12163	-12242	-12243	-12146	MG	0.00	0.00	110.00
3630	-12242	-12314	-12315	-12243	MG	0.00	0.00	110.00
3630	-12314	-12382	-12383	-12315	MG	0.00	0.00	110.00
3630	-12382	-12448	-12449	-12383	MG	0.00	0.00	110.00
3630	-12448	-12534	-12548	-12449	MG	0.00	0.00	110.00
3630	-11761	-11827	-11828	-11762	MG	0.00	0.00	110.00
3630	-11827	-11889	-11890	-11828	MG	0.00	0.00	110.00
3630	-12834	-12904	-12905	-12835	MG	0.00	0.00	110.00
3630	-12011	-12068	-12022	-11983	MG	0.00	0.00	110.00
3630	-12068	-12146	-12164	-12022	MG	0.00	0.00	110.00
3630	-13065	-13135	-13136	-13066	MG	0.00	0.00	110.00
3630	-13135	-13207	-13208	-13136	MG	0.00	0.00	110.00
3630	-13207	-13273	-13274	-13208	MG	0.00	0.00	110.00
3630	-12550	-12620	-12621	-12540	MG	0.00	0.00	110.00
3630	-12449	-12548	-12535	-12450	MG	0.00	0.00	110.00
3630	-11762	-11828	-11829	-11763	MG	0.00	0.00	110.00
3630	-12765	-12835	-12836	-12766	MG	0.00	0.00	110.00
3630	-11890	-11983	-12012	-11899	MG	0.00	0.00	110.00
3630	-12905	-12985	-12986	-12906	MG	0.00	0.00	110.00
3630	-12022	-12164	-12171	-12101	MG	0.00	0.00	110.00
3630	-12164	-12244	-12245	-12171	MG	0.00	0.00	110.00
3630	-13136	-13208	-13209	-13137	MG	0.00	0.00	110.00
3630	-13208	-13274	-13275	-13209	MG	0.00	0.00	110.00
3630	-12384	-12450	-12451	-12385	MG	0.00	0.00	110.00
3630	-12621	-12695	-12696	-12622	MG	0.00	0.00	110.00
3630	-11763	-11829	-11830	-11764	MG	0.00	0.00	110.00
3630	-11829	-11899	-11891	-11830	MG	0.00	0.00	110.00
3630	-12836	-12906	-12907	-12837	MG	0.00	0.00	110.00
3630	-12906	-12986	-12987	-12907	MG	0.00	0.00	110.00
3630	-12986	-13067	-13068	-12987	MG	0.00	0.00	110.00
3630	-13067	-13137	-13138	-13068	MG	0.00	0.00	110.00
3630	-12245	-12317	-12318	-12246	MG	0.00	0.00	110.00
3630	-12317	-12385	-12386	-12318	MG	0.00	0.00	110.00
3630	-12385	-12451	-12452	-12386	MG	0.00	0.00	110.00
3630	-12451	-12549	-12536	-12452	MG	0.00	0.00	110.00
3630	-11764	-11830	-11831	-11765	MG	0.00	0.00	110.00
3630	-11830	-11891	-11892	-11831	MG	0.00	0.00	110.00
3630	-11891	-12013	-11998	-11892	MG	0.00	0.00	110.00
3630	-12013	-12054	-12069	-11998	MG	0.00	0.00	110.00
3630	-12054	-12115	-12187	-12069	MG	0.00	0.00	110.00
3630	-12115	-12246	-12247	-12187	MG	0.00	0.00	110.00
3630	-13138	-13210	-13211	-13139	MG	0.00	0.00	110.00
3630	-12318	-12386	-12387	-12319	MG	0.00	0.00	110.00
3630	-12542	-12623	-12624	-12543	MG	0.00	0.00	110.00

3630	-12452	-12536	-12537	-12453	MG	0.00	0.00	110.00
3630	-11765	-11831	-11832	-11766	MG	0.00	0.00	110.00
3630	-11831	-11892	-11900	-11832	MG	0.00	0.00	110.00
3630	-12838	-12908	-12909	-12839	MG	0.00	0.00	110.00
3630	-11998	-12069	-12102	-11999	MG	0.00	0.00	110.00
3630	-12069	-12187	-12120	-12102	MG	0.00	0.00	110.00
3630	-12187	-12247	-12248	-12120	MG	0.00	0.00	110.00
3630	-12247	-12319	-12320	-12248	MG	0.00	0.00	110.00
3630	-12319	-12387	-12388	-12320	MG	0.00	0.00	110.00
3630	-12387	-12453	-12454	-12388	MG	0.00	0.00	110.00
3630	-11142	-11208	-11209	-11143	MG	0.00	0.00	110.00
3630	-11208	-11274	-11275	-11209	MG	0.00	0.00	110.00
3630	-11274	-11346	-11347	-11275	MG	0.00	0.00	110.00
3630	-11346	-11412	-11413	-11347	MG	0.00	0.00	110.00
3630	-11999	-12102	-12070	-12000	MG	0.00	0.00	110.00
3630	-11482	-11552	-11553	-11483	MG	0.00	0.00	110.00
3630	-13268	-13337	-13338	-13269	MG	0.00	0.00	110.00
3630	-11622	-11694	-11695	-11623	MG	0.00	0.00	110.00
3630	-13404	-13476	-13477	-13405	MG	0.00	0.00	110.00
3630	-12388	-12454	-12455	-12389	MG	0.00	0.00	110.00
3630	-12454	-12538	-12539	-12455	MG	0.00	0.00	110.00
3630	-11209	-11275	-11276	-11210	MG	0.00	0.00	110.00
3630	-11275	-11347	-11348	-11276	MG	0.00	0.00	110.00
3630	-11901	-12000	-11973	-11902	MG	0.00	0.00	110.00
3630	-11413	-11483	-11484	-11414	MG	0.00	0.00	110.00
3630	-11483	-11553	-11554	-11484	MG	0.00	0.00	110.00
3630	-12165	-12249	-12250	-12121	MG	0.00	0.00	110.00
3630	-12249	-12321	-12322	-12250	MG	0.00	0.00	110.00
3630	-12321	-12389	-12390	-12322	MG	0.00	0.00	110.00
3630	-13477	-13547	-13548	-13478	MG	0.00	0.00	110.00
3630	-11144	-11210	-11211	-11145	MG	0.00	0.00	110.00
3630	-11210	-11276	-11277	-11211	MG	0.00	0.00	110.00
3630	-11276	-11348	-11349	-11277	MG	0.00	0.00	110.00
3630	-11902	-11973	-12001	-11903	MG	0.00	0.00	110.00
3630	-11414	-11484	-11485	-11415	MG	0.00	0.00	110.00
3630	-12023	-12121	-12188	-12055	MG	0.00	0.00	110.00
3630	-12121	-12250	-12251	-12188	MG	0.00	0.00	110.00
3630	-12250	-12322	-12323	-12251	MG	0.00	0.00	110.00
3630	-11696	-11762	-11763	-11697	MG	0.00	0.00	110.00
3630	-11080	-11145	-11146	-11081	MG	0.00	0.00	110.00
3630	-12456	-12550	-12540	-12457	MG	0.00	0.00	110.00
3630	-11211	-11277	-11278	-11212	MG	0.00	0.00	110.00
3630	-11277	-11349	-11350	-11278	MG	0.00	0.00	110.00
3630	-11349	-11415	-11416	-11350	MG	0.00	0.00	110.00
3630	-12001	-12055	-12024	-11941	MG	0.00	0.00	110.00
3630	-11485	-11555	-11556	-11486	MG	0.00	0.00	110.00
3630	-12188	-12251	-12252	-12122	MG	0.00	0.00	110.00
3630	-12251	-12323	-12324	-12252	MG	0.00	0.00	110.00
3630	-12323	-12391	-12392	-12324	MG	0.00	0.00	110.00
3630	-12391	-12457	-12458	-12392	MG	0.00	0.00	110.00
3630	-12457	-12540	-12541	-12458	MG	0.00	0.00	110.00
3630	-11770	-11836	-11837	-11771	MG	0.00	0.00	110.00
3630	-11836	-11904	-11905	-11837	MG	0.00	0.00	110.00
3630	-11904	-11941	-12002	-11905	MG	0.00	0.00	110.00
3630	-11416	-11486	-11487	-11417	MG	0.00	0.00	110.00
3630	-11486	-11556	-11557	-11487	MG	0.00	0.00	110.00
3630	-12122	-12252	-12253	-12172	MG	0.00	0.00	110.00
3630	-11626	-11698	-11699	-11627	MG	0.00	0.00	110.00
3630	-11698	-11764	-11765	-11699	MG	0.00	0.00	110.00
3630	-11082	-11147	-11148	-11083	MG	0.00	0.00	110.00
3630	-11147	-11213	-11214	-11148	MG	0.00	0.00	110.00
3630	-11213	-11279	-11280	-11214	MG	0.00	0.00	110.00
3630	-11279	-11351	-11352	-11280	MG	0.00	0.00	110.00
3630	-11905	-12002	-12003	-11906	MG	0.00	0.00	110.00
3630	-12002	-12071	-12072	-12003	MG	0.00	0.00	110.00
3630	-12071	-12172	-12173	-12072	MG	0.00	0.00	110.00
3630	-12172	-12253	-12254	-12173	MG	0.00	0.00	110.00
3630	-12253	-12325	-12326	-12254	MG	0.00	0.00	110.00
3630	-11699	-11765	-11766	-11700	MG	0.00	0.00	110.00
3630	-11083	-11148	-11149	-11084	MG	0.00	0.00	110.00
3630	-11148	-11214	-11215	-11149	MG	0.00	0.00	110.00
3630	-13266	-13335	-13336	-13267	MG	0.00	0.00	110.00
3630	-13335	-13402	-13403	-13336	MG	0.00	0.00	110.00
3630	-13402	-13474	-13475	-13403	MG	0.00	0.00	110.00
3630	-13474	-13544	-13545	-13475	MG	0.00	0.00	110.00
3630	-13544	-13610	-13611	-13545	MG	0.00	0.00	110.00
3630	-11558	-11628	-11629	-11559	MG	0.00	0.00	110.00
3630	-11628	-11700	-11701	-11629	MG	0.00	0.00	110.00
3630	-13742	-13808	-13809	-13743	MG	0.00	0.00	110.00

3630	-13808	-13874	-13875	-13809	MG	0.00	0.00	110.00
3630	-13874	-13942	-13943	-13875	MG	0.00	0.00	110.00
3630	-13267	-13336	-13337	-13268	MG	0.00	0.00	110.00
3630	-13336	-13403	-13404	-13337	MG	0.00	0.00	110.00
3630	-13403	-13475	-13476	-13404	MG	0.00	0.00	110.00
3630	-13475	-13545	-13546	-13476	MG	0.00	0.00	110.00
3630	-13545	-13611	-13612	-13546	MG	0.00	0.00	110.00
3630	-13611	-13677	-13678	-13612	MG	0.00	0.00	110.00
3630	-13677	-13743	-13744	-13678	MG	0.00	0.00	110.00
3630	-11701	-11767	-11768	-11702	MG	0.00	0.00	110.00
3630	-11039	-11150	-11151	-11085	MG	0.00	0.00	110.00
3630	-11150	-11216	-11217	-11151	MG	0.00	0.00	110.00
3630	-12537	-12617	-12618	-12538	MG	0.00	0.00	110.00
3630	-13337	-13404	-13405	-13338	MG	0.00	0.00	110.00
3630	-11282	-11354	-11355	-11283	MG	0.00	0.00	110.00
3630	-11420	-11490	-11491	-11421	MG	0.00	0.00	110.00
3630	-11490	-11560	-11561	-11491	MG	0.00	0.00	110.00
3630	-11560	-11630	-11631	-11561	MG	0.00	0.00	110.00
3630	-11630	-11702	-11703	-11631	MG	0.00	0.00	110.00
3630	-11702	-11768	-11769	-11703	MG	0.00	0.00	110.00
3630	-13810	-13876	-13877	-13811	MG	0.00	0.00	110.00
3630	-11151	-11217	-11218	-11152	MG	0.00	0.00	110.00
3630	-13269	-13338	-13339	-13270	MG	0.00	0.00	110.00
3630	-13338	-13405	-13406	-13339	MG	0.00	0.00	110.00
3630	-11355	-11421	-11422	-11356	MG	0.00	0.00	110.00
3630	-13818	-13884	-13885	-13819	MG	0.00	0.00	110.00
3630	-13547	-13613	-13614	-13548	MG	0.00	0.00	110.00
3630	-13613	-13679	-13680	-13614	MG	0.00	0.00	110.00
3630	-11631	-11703	-11704	-11632	MG	0.00	0.00	110.00
3630	-13745	-13811	-13812	-13746	MG	0.00	0.00	110.00
3630	-11086	-11152	-11153	-11087	MG	0.00	0.00	110.00
3630	-13877	-13945	-13946	-13878	MG	0.00	0.00	110.00
3630	-13270	-13339	-13340	-13271	MG	0.00	0.00	110.00
3630	-13339	-13406	-13407	-13340	MG	0.00	0.00	110.00
3630	-11356	-11422	-11423	-11357	MG	0.00	0.00	110.00
3630	-11422	-11492	-11493	-11423	MG	0.00	0.00	110.00
3630	-13548	-13614	-13615	-13549	MG	0.00	0.00	110.00
3630	-13614	-13680	-13681	-13615	MG	0.00	0.00	110.00
3630	-13680	-13746	-13747	-13681	MG	0.00	0.00	110.00
3630	-13746	-13812	-13813	-13747	MG	0.00	0.00	110.00
3630	-13812	-13878	-13879	-13813	MG	0.00	0.00	110.00
3630	-13878	-13946	-13947	-13879	MG	0.00	0.00	110.00
3630	-13271	-13340	-13341	-13272	MG	0.00	0.00	110.00
3630	-13340	-13407	-13408	-13341	MG	0.00	0.00	110.00
3630	-13407	-13479	-13480	-13408	MG	0.00	0.00	110.00
3630	-13479	-13549	-13550	-13480	MG	0.00	0.00	110.00
3630	-13549	-13615	-13616	-13550	MG	0.00	0.00	110.00
3630	-13615	-13681	-13682	-13616	MG	0.00	0.00	110.00
3630	-13681	-13747	-13748	-13682	MG	0.00	0.00	110.00
3630	-13747	-13813	-13814	-13748	MG	0.00	0.00	110.00
3630	-12758	-12828	-12829	-12759	MG	0.00	0.00	110.00
3630	-12540	-12621	-12622	-12541	MG	0.00	0.00	110.00
3630	-12898	-12978	-12979	-12899	MG	0.00	0.00	110.00
3630	-12695	-12766	-12767	-12696	MG	0.00	0.00	110.00
3630	-13408	-13480	-13481	-13409	MG	0.00	0.00	110.00
3630	-11693	-11759	-11760	-11694	MG	0.00	0.00	110.00
3630	-13550	-13616	-13617	-13551	MG	0.00	0.00	110.00
3630	-13935	-13934	-14004	-14005	MG	0.00	0.00	110.00
3630	-11347	-11413	-11414	-11348	MG	0.00	0.00	110.00
3630	-13137	-13209	-13210	-13138	MG	0.00	0.00	110.00
3630	-13209	-13275	-13276	-13210	MG	0.00	0.00	110.00
3630	-13880	-13948	-13949	-13881	MG	0.00	0.00	110.00
3630	-13273	-13342	-13343	-13274	MG	0.00	0.00	110.00
3630	-12696	-12767	-12768	-12697	MG	0.00	0.00	110.00
3630	-14206	-14205	-14271	-14272	MG	0.00	0.00	110.00
3630	-13481	-13551	-13552	-13482	MG	0.00	0.00	110.00
3630	-13551	-13617	-13618	-13552	MG	0.00	0.00	110.00
3630	-12987	-13068	-13069	-12988	MG	0.00	0.00	110.00
3630	-13068	-13138	-13139	-13069	MG	0.00	0.00	110.00
3630	-11280	-11352	-11353	-11281	MG	0.00	0.00	110.00
3630	-13815	-13881	-13882	-13816	MG	0.00	0.00	110.00
3630	-13881	-13949	-13950	-13882	MG	0.00	0.00	110.00
3630	-13274	-13343	-13344	-13275	MG	0.00	0.00	110.00
3630	-13343	-13410	-13411	-13344	MG	0.00	0.00	110.00
3630	-13410	-13482	-13483	-13411	MG	0.00	0.00	110.00
3630	-13482	-13552	-13553	-13483	MG	0.00	0.00	110.00
3630	-12908	-12988	-12989	-12909	MG	0.00	0.00	110.00
3630	-12988	-13069	-13070	-12989	MG	0.00	0.00	110.00
3630	-13684	-13750	-13751	-13685	MG	0.00	0.00	110.00

3630	-15535	-15534	-15600	-15601	MG	0.00	0.00	110.00
3630	-13816	-13882	-13883	-13817	MG	0.00	0.00	110.00
3630	-13882	-13950	-13951	-13883	MG	0.00	0.00	110.00
3630	-15733	-15732	-15798	-15799	MG	0.00	0.00	110.00
3630	-15799	-15798	-15864	-15865	MG	0.00	0.00	110.00
3630	-15865	-15864	-15931	-15932	MG	0.00	0.00	110.00
3630	-13483	-13553	-13554	-13484	MG	0.00	0.00	110.00
3630	-11412	-11482	-11483	-11413	MG	0.00	0.00	110.00
3630	-12687	-12758	-12759	-12688	MG	0.00	0.00	110.00
3630	-12617	-12691	-12692	-12618	MG	0.00	0.00	110.00
3630	-11216	-11282	-11283	-11217	MG	0.00	0.00	110.00
3630	-11354	-11420	-11421	-11355	MG	0.00	0.00	110.00
3630	-11078	-11143	-11144	-11079	MG	0.00	0.00	110.00
3630	-11143	-11209	-11210	-11144	MG	0.00	0.00	110.00
3630	-13345	-13412	-13413	-13346	MG	0.00	0.00	110.00
3630	-13063	-13133	-13134	-13064	MG	0.00	0.00	110.00
3630	-12984	-13065	-13066	-12985	MG	0.00	0.00	110.00
3630	-13205	-13271	-13272	-13206	MG	0.00	0.00	110.00
3630	-12538	-12618	-12619	-12539	MG	0.00	0.00	110.00
3630	-11553	-11623	-11624	-11554	MG	0.00	0.00	110.00
3630	-11623	-11695	-11696	-11624	MG	0.00	0.00	110.00
3630	-12763	-12833	-12834	-12764	MG	0.00	0.00	110.00
3630	-11421	-11491	-11492	-11422	MG	0.00	0.00	110.00
3630	-11491	-11561	-11562	-11492	MG	0.00	0.00	110.00
3630	-12983	-13064	-13065	-12984	MG	0.00	0.00	110.00
3630	-13064	-13134	-13135	-13065	MG	0.00	0.00	110.00
3630	-13485	-13555	-13556	-13486	MG	0.00	0.00	110.00
3630	-13206	-13272	-13273	-13207	MG	0.00	0.00	110.00
3630	-11484	-11554	-11555	-11485	MG	0.00	0.00	110.00
3630	-11554	-11624	-11625	-11555	MG	0.00	0.00	110.00
3630	-11624	-11696	-11697	-11625	MG	0.00	0.00	110.00
3630	-12764	-12834	-12835	-12765	MG	0.00	0.00	110.00
3630	-12623	-12697	-12698	-12624	MG	0.00	0.00	110.00
3630	-11145	-11211	-11212	-11146	MG	0.00	0.00	110.00
3630	-13201	-13267	-13268	-13202	MG	0.00	0.00	110.00
3630	-12686	-12757	-12758	-12687	MG	0.00	0.00	110.00
3630	-12757	-12827	-12828	-12758	MG	0.00	0.00	110.00
3630	-11415	-11485	-11486	-11416	MG	0.00	0.00	110.00
3630	-11153	-11219	-11220	-11154	MG	0.00	0.00	110.00
3630	-11555	-11625	-11626	-11556	MG	0.00	0.00	110.00
3630	-11625	-11697	-11698	-11626	MG	0.00	0.00	110.00
3630	-11697	-11763	-11764	-11698	MG	0.00	0.00	110.00
3630	-11081	-11146	-11147	-11082	MG	0.00	0.00	110.00
3630	-12548	-12613	-12614	-12549	MG	0.00	0.00	110.00
3630	-12613	-12687	-12688	-12614	MG	0.00	0.00	110.00
3630	-13204	-13270	-13271	-13205	MG	0.00	0.00	110.00
3630	-11705	-11771	-11772	-11682	MG	0.00	0.00	110.00
3630	-12828	-12898	-12899	-12829	MG	0.00	0.00	110.00
3630	-11350	-11416	-11417	-11351	MG	0.00	0.00	110.00
3630	-12978	-13059	-13060	-12979	MG	0.00	0.00	110.00
3630	-11556	-11626	-11627	-11557	MG	0.00	0.00	110.00
3630	-12766	-12836	-12837	-12767	MG	0.00	0.00	110.00
3630	-13061	-13131	-13132	-13062	MG	0.00	0.00	110.00
3630	-13131	-13203	-13204	-13132	MG	0.00	0.00	110.00
3630	-13133	-13205	-13206	-13134	MG	0.00	0.00	110.00
3630	-12688	-12759	-12760	-12689	MG	0.00	0.00	110.00
3630	-12759	-12829	-12830	-12760	MG	0.00	0.00	110.00
3630	-12829	-12899	-12900	-12830	MG	0.00	0.00	110.00
3630	-12899	-12979	-12980	-12900	MG	0.00	0.00	110.00
3630	-11557	-11627	-11628	-11558	MG	0.00	0.00	110.00
3630	-13060	-13121	-13131	-13061	MG	0.00	0.00	110.00
3630	-13121	-13202	-13203	-13131	MG	0.00	0.00	110.00
3630	-13202	-13268	-13269	-13203	MG	0.00	0.00	110.00
3630	-12549	-12615	-12616	-12536	MG	0.00	0.00	110.00
3630	-12615	-12689	-12690	-12616	MG	0.00	0.00	110.00
3630	-11214	-11280	-11281	-11215	MG	0.00	0.00	110.00
3630	-11352	-11418	-11419	-11353	MG	0.00	0.00	110.00
3630	-11418	-11488	-11489	-11419	MG	0.00	0.00	110.00
3630	-11488	-11558	-11559	-11489	MG	0.00	0.00	110.00
3630	-11284	-11356	-11357	-11285	MG	0.00	0.00	110.00
3630	-12902	-12982	-12983	-12903	MG	0.00	0.00	110.00
3630	-12982	-13063	-13064	-12983	MG	0.00	0.00	110.00
3630	-13203	-13269	-13270	-13204	MG	0.00	0.00	110.00
3630	-12536	-12616	-12617	-12537	MG	0.00	0.00	110.00
3630	-11215	-11281	-11282	-11216	MG	0.00	0.00	110.00
3630	-12690	-12761	-12762	-12691	MG	0.00	0.00	110.00
3630	-12761	-12831	-12832	-12762	MG	0.00	0.00	110.00
3630	-11419	-11489	-11490	-11420	MG	0.00	0.00	110.00
3630	-11489	-11559	-11560	-11490	MG	0.00	0.00	110.00

3630	-12981	-13062	-13063	-12982	MG	0.00	0.00	110.00
3630	-13062	-13132	-13133	-13063	MG	0.00	0.00	110.00
3630	-13132	-13204	-13205	-13133	MG	0.00	0.00	110.00
3630	-12985	-13066	-13067	-12986	MG	0.00	0.00	110.00
3630	-13066	-13136	-13137	-13067	MG	0.00	0.00	110.00
3630	-11278	-11350	-11351	-11279	MG	0.00	0.00	110.00
3630	-11633	-11705	-11682	-11634	MG	0.00	0.00	110.00
3630	-12619	-12693	-12694	-12620	MG	0.00	0.00	110.00
3630	-12832	-12902	-12903	-12833	MG	0.00	0.00	110.00
3630	-14471	-14470	-14536	-14537	MG	0.00	0.00	110.00
3630	-14404	-14403	-14469	-14470	MG	0.00	0.00	110.00
3630	-12904	-12984	-12985	-12905	MG	0.00	0.00	110.00
3630	-11492	-11562	-11563	-11493	MG	0.00	0.00	110.00
3630	-11632	-11704	-11705	-11633	MG	0.00	0.00	110.00
3630	-11085	-11151	-11152	-11086	MG	0.00	0.00	110.00
3630	-12618	-12692	-12693	-12619	MG	0.00	0.00	110.00
3630	-12692	-12763	-12764	-12693	MG	0.00	0.00	110.00
3630	-11283	-11355	-11356	-11284	MG	0.00	0.00	110.00
3630	-11695	-11761	-11762	-11696	MG	0.00	0.00	110.00
3630	-11487	-11557	-11558	-11488	MG	0.00	0.00	110.00
3630	-12767	-12837	-12838	-12768	MG	0.00	0.00	110.00
3630	-11561	-11631	-11632	-11562	MG	0.00	0.00	110.00
3630	-13134	-13206	-13207	-13135	MG	0.00	0.00	110.00
3630	-11348	-11414	-11415	-11349	MG	0.00	0.00	110.00
3630	-12539	-12619	-12620	-12550	MG	0.00	0.00	110.00
3630	-11563	-11633	-11634	-11564	MG	0.00	0.00	110.00
3630	-12693	-12764	-12765	-12694	MG	0.00	0.00	110.00
3630	-13210	-13276	-13277	-13211	MG	0.00	0.00	110.00
3630	-11218	-11284	-11285	-11219	MG	0.00	0.00	110.00
3630	-12835	-12905	-12906	-12836	MG	0.00	0.00	110.00
3630	-12697	-12768	-12769	-12698	MG	0.00	0.00	110.00
3630	-12768	-12838	-12839	-12769	MG	0.00	0.00	110.00
3630	-11704	-11770	-11771	-11705	MG	0.00	0.00	110.00
3630	-11087	-11153	-11154	-11088	MG	0.00	0.00	110.00
3630	-13069	-13139	-13140	-13070	MG	0.00	0.00	110.00
3630	-12620	-12694	-12695	-12621	MG	0.00	0.00	110.00
3630	-12694	-12765	-12766	-12695	MG	0.00	0.00	110.00
3630	-11357	-11423	-11424	-11358	MG	0.00	0.00	110.00
3630	-11077	-11142	-11143	-11078	MG	0.00	0.00	110.00
3630	-11423	-11493	-11494	-11424	MG	0.00	0.00	110.00
3630	-11629	-11701	-11702	-11630	MG	0.00	0.00	110.00
3630	-15272	-15271	-15337	-15338	MG	0.00	0.00	110.00
3630	-11212	-11278	-11279	-11213	MG	0.00	0.00	110.00
3630	-11703	-11769	-11770	-11704	MG	0.00	0.00	110.00
3630	-11351	-11417	-11418	-11352	MG	0.00	0.00	110.00
3630	-12541	-12622	-12623	-12542	MG	0.00	0.00	110.00
3630	-11152	-11218	-11219	-11153	MG	0.00	0.00	110.00
3630	-11417	-11487	-11488	-11418	MG	0.00	0.00	110.00
3630	-15667	-15666	-15732	-15733	MG	0.00	0.00	110.00
3630	-12837	-12907	-12908	-12838	MG	0.00	0.00	110.00
3630	-11700	-11766	-11767	-11701	MG	0.00	0.00	110.00
3630	-11084	-11149	-11150	-11039	MG	0.00	0.00	110.00
3630	-11149	-11215	-11216	-11150	MG	0.00	0.00	110.00
3630	-14536	-14535	-14605	-14606	MG	0.00	0.00	110.00
3630	-13139	-13211	-13212	-13140	MG	0.00	0.00	110.00
3630	-12622	-12696	-12697	-12623	MG	0.00	0.00	110.00
3630	-11281	-11353	-11354	-11282	MG	0.00	0.00	110.00
3630	-11219	-11285	-11286	-11220	MG	0.00	0.00	110.00
3630	-11559	-11629	-11630	-11560	MG	0.00	0.00	110.00
3630	-12907	-12987	-12988	-12908	MG	0.00	0.00	110.00
3630	-14272	-14271	-14337	-14338	MG	0.00	0.00	110.00
3630	-11562	-11632	-11633	-11563	MG	0.00	0.00	110.00
3630	-11146	-11212	-11213	-11147	MG	0.00	0.00	110.00
3630	-11285	-11357	-11358	-11286	MG	0.00	0.00	110.00
3630	-13211	-13277	-13278	-13212	MG	0.00	0.00	110.00
3630	-14537	-14536	-14606	-14607	MG	0.00	0.00	110.00
3630	-15601	-15600	-15666	-15667	MG	0.00	0.00	110.00
3630	-15469	-15468	-15534	-15535	MG	0.00	0.00	110.00
3630	-14470	-14469	-14535	-14536	MG	0.00	0.00	110.00
3630	-11217	-11283	-11284	-11218	MG	0.00	0.00	110.00
3630	-11353	-11419	-11420	-11354	MG	0.00	0.00	110.00
3630	-11627	-11699	-11700	-11628	MG	0.00	0.00	110.00

**Elenco carichi elementi bidimensionali**  
**Condizione di carico n. 3: Permanenti NS G2**  
**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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3584	-15772	-15838	-15837	-15771	MG	0.00	0.00	100.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	100.00
3584	-15178	-15245	-15244	-15177	MG	0.00	0.00	100.00
3584	-15245	-15311	-15310	-15244	MG	0.00	0.00	100.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	100.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	100.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	100.00
3584	-15044	-15113	-15112	-15043	MG	0.00	0.00	100.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	100.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	100.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	100.00
3584	-14647	-14713	-14712	-14646	MG	0.00	0.00	100.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	100.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	100.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	100.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	100.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	100.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	100.00
3584	-14179	-14245	-14244	-14178	MG	0.00	0.00	100.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	100.00
3584	-14978	-15044	-15043	-14977	MG	0.00	0.00	100.00
3584	-13441	-13511	-13510	-13440	MG	0.00	0.00	100.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	100.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	100.00
3584	-16302	-16368	-16367	-16301	MG	0.00	0.00	100.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	100.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	100.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	100.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	100.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	100.00
3584	-15905	-15971	-15970	-15904	MG	0.00	0.00	100.00
3584	-13775	-13841	-13840	-13774	MG	0.00	0.00	100.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	100.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	100.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	100.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	100.00
3584	-14714	-14780	-14779	-14713	MG	0.00	0.00	100.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	100.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	100.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	100.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	100.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	100.00
3584	-12863	-12941	-12940	-12862	MG	0.00	0.00	100.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	100.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	100.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	100.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	100.00
3584	-14911	-14977	-14976	-14910	MG	0.00	0.00	100.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	100.00
3584	-14846	-14912	-14911	-14845	MG	0.00	0.00	100.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	100.00
3584	-14845	-14911	-14910	-14844	MG	0.00	0.00	100.00
3584	-15043	-15112	-15111	-15042	MG	0.00	0.00	100.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	100.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	100.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	100.00
3584	-14245	-14311	-14310	-14244	MG	0.00	0.00	100.00
3584	-15244	-15310	-15309	-15243	MG	0.00	0.00	100.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	100.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	100.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	100.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	100.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	100.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	100.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	100.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	100.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	100.00
3584	-14580	-14648	-14647	-14579	MG	0.00	0.00	100.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	100.00
3584	-15839	-15906	-15905	-15838	MG	0.00	0.00	100.00
3584	-11933	-12058	-12051	-11932	MG	0.00	0.00	100.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	100.00
3584	-16235	-16301	-16300	-16234	MG	0.00	0.00	100.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	100.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	100.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	100.00
3584	-15640	-15706	-15705	-15639	MG	0.00	0.00	100.00
3584	-14780	-14846	-14845	-14779	MG	0.00	0.00	100.00
3584	-11792	-11854	-11853	-11791	MG	0.00	0.00	100.00

3584	-11854	-11932	-11991	-11853	MG	0.00	0.00	100.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	100.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	100.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	100.00
3584	-14114	-14180	-14179	-14113	MG	0.00	0.00	100.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	100.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	100.00
3584	-14312	-14378	-14377	-14311	MG	0.00	0.00	100.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	100.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	100.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	100.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	100.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	100.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	100.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	100.00
3584	-15177	-15244	-15243	-15176	MG	0.00	0.00	100.00
3584	-14509	-14579	-14578	-14508	MG	0.00	0.00	100.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	100.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	100.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	100.00
3584	-16236	-16302	-16301	-16235	MG	0.00	0.00	100.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	100.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	100.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	100.00
3584	-12348	-12414	-12413	-12347	MG	0.00	0.00	100.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	100.00
3584	-10965	-11053	-11036	-10964	MG	0.00	0.00	100.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	100.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	100.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	100.00
3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	100.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	100.00
3584	-12349	-12415	-12414	-12348	MG	0.00	0.00	100.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	100.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	100.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	100.00
3584	-12793	-12863	-12862	-12792	MG	0.00	0.00	100.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	100.00
3584	-15977	-15976	-15910	-15911	MG	0.00	0.00	100.00
3584	-13511	-13577	-13576	-13510	MG	0.00	0.00	100.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	100.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	100.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	100.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	100.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	100.00
3584	-13909	-13979	-13978	-13908	MG	0.00	0.00	100.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	100.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	100.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	100.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	100.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	100.00
3584	-11656	-11727	-11726	-11655	MG	0.00	0.00	100.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	100.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	100.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	100.00
3584	-11240	-11312	-11311	-11239	MG	0.00	0.00	100.00
3584	-10403	-10472	-10471	-10402	MG	0.00	0.00	100.00
3584	-10472	-10616	-10538	-10471	MG	0.00	0.00	100.00
3584	-11448	-11518	-11517	-11447	MG	0.00	0.00	100.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	100.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	100.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	100.00
3584	-10902	-10965	-10964	-10901	MG	0.00	0.00	100.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	100.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	100.00
3584	-10962	-10963	-10900	-10899	MG	0.00	0.00	100.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	100.00
3584	-16040	-16039	-15973	-15974	MG	0.00	0.00	100.00
3584	-12209	-12281	-12280	-12208	MG	0.00	0.00	100.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	100.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	100.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	100.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	100.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	100.00
3584	-10836	-10835	-10770	-10771	MG	0.00	0.00	100.00
3584	-15174	-15175	-15110	-15109	MG	0.00	0.00	100.00
3584	-15040	-15041	-14975	-14974	MG	0.00	0.00	100.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	100.00
3584	-14776	-14777	-14711	-14710	MG	0.00	0.00	100.00

3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	100.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	100.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	100.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	100.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	100.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	100.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	100.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	100.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	100.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	100.00
3584	-16310	-16309	-16243	-16244	MG	0.00	0.00	100.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	100.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	100.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	100.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	100.00
3584	-16049	-16048	-15982	-15983	MG	0.00	0.00	100.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	100.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	100.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	100.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	100.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	100.00
3584	-12411	-12412	-12346	-12345	MG	0.00	0.00	100.00
3584	-16566	-16599	-16598	-16565	MG	0.00	0.00	100.00
3584	-11053	-11108	-11107	-11036	MG	0.00	0.00	100.00
3584	-11990	-11959	-11852	-11895	MG	0.00	0.00	100.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	100.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	100.00
3584	-12806	-12805	-12735	-12736	MG	0.00	0.00	100.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	100.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	100.00
3584	-16433	-16499	-16498	-16432	MG	0.00	0.00	100.00
3584	-16181	-16180	-16114	-16115	MG	0.00	0.00	100.00
3584	-12801	-12800	-12730	-12731	MG	0.00	0.00	100.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	100.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	100.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	100.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	100.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	100.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	100.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	100.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	100.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	100.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	100.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	100.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	100.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	100.00
3584	-12728	-12727	-12656	-12657	MG	0.00	0.00	100.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	100.00
3584	-13774	-13840	-13839	-13773	MG	0.00	0.00	100.00
3584	-13840	-13908	-13907	-13839	MG	0.00	0.00	100.00
3584	-11657	-11656	-11589	-11590	MG	0.00	0.00	100.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	100.00
3584	-12663	-12662	-12588	-12589	MG	0.00	0.00	100.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	100.00
3584	-15443	-15509	-15508	-15442	MG	0.00	0.00	100.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	100.00
3584	-16500	-16566	-16565	-16499	MG	0.00	0.00	100.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	100.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	100.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	100.00
3584	-12655	-12654	-12580	-12581	MG	0.00	0.00	100.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	100.00
3584	-10669	-10653	-10545	-10564	MG	0.00	0.00	100.00
3584	-10469	-10470	-10401	-10400	MG	0.00	0.00	100.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	100.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	100.00
3584	-12282	-12281	-12209	-12210	MG	0.00	0.00	100.00
3584	-12210	-12209	-12182	-12183	MG	0.00	0.00	100.00
3584	-12183	-12182	-12058	-12032	MG	0.00	0.00	100.00
3584	-12032	-12058	-11933	-11960	MG	0.00	0.00	100.00
3584	-11960	-11933	-11855	-11856	MG	0.00	0.00	100.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	100.00
3584	-12581	-12580	-12496	-12497	MG	0.00	0.00	100.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	100.00
3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	100.00
3584	-16496	-16497	-16431	-16430	MG	0.00	0.00	100.00
3584	-16364	-16365	-16299	-16298	MG	0.00	0.00	100.00
3584	-16232	-16233	-16167	-16166	MG	0.00	0.00	100.00
3584	-16100	-16101	-16035	-16034	MG	0.00	0.00	100.00

3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	100.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	100.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	100.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	100.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	100.00
3584	-12418	-12417	-12351	-12352	MG	0.00	0.00	100.00
3584	-12352	-12351	-12283	-12284	MG	0.00	0.00	100.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	100.00
3584	-12212	-12211	-12106	-12151	MG	0.00	0.00	100.00
3584	-12151	-12106	-12033	-12088	MG	0.00	0.00	100.00
3584	-12088	-12033	-11934	-11935	MG	0.00	0.00	100.00
3584	-11935	-11934	-11896	-11857	MG	0.00	0.00	100.00
3584	-11857	-11896	-11795	-11796	MG	0.00	0.00	100.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	100.00
3584	-12499	-12498	-12418	-12419	MG	0.00	0.00	100.00
3584	-10824	-10902	-10901	-10823	MG	0.00	0.00	100.00
3584	-12353	-12352	-12284	-12285	MG	0.00	0.00	100.00
3584	-12285	-12284	-12212	-12213	MG	0.00	0.00	100.00
3584	-12213	-12212	-12151	-12107	MG	0.00	0.00	100.00
3584	-12107	-12151	-12088	-12089	MG	0.00	0.00	100.00
3584	-12089	-12088	-11935	-11961	MG	0.00	0.00	100.00
3584	-11961	-11935	-11857	-11897	MG	0.00	0.00	100.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	100.00
3584	-12584	-12583	-12499	-12500	MG	0.00	0.00	100.00
3584	-12500	-12499	-12419	-12420	MG	0.00	0.00	100.00
3584	-12420	-12419	-12353	-12354	MG	0.00	0.00	100.00
3584	-12354	-12353	-12285	-12286	MG	0.00	0.00	100.00
3584	-12286	-12285	-12213	-12214	MG	0.00	0.00	100.00
3584	-12214	-12213	-12107	-12152	MG	0.00	0.00	100.00
3584	-12152	-12107	-12089	-12090	MG	0.00	0.00	100.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	100.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	100.00
3584	-11858	-11897	-11797	-11798	MG	0.00	0.00	100.00
3584	-12585	-12584	-12500	-12501	MG	0.00	0.00	100.00
3584	-12501	-12500	-12420	-12421	MG	0.00	0.00	100.00
3584	-12421	-12420	-12354	-12355	MG	0.00	0.00	100.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	100.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	100.00
3584	-12215	-12214	-12152	-12118	MG	0.00	0.00	100.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	100.00
3584	-13440	-13510	-13509	-13439	MG	0.00	0.00	100.00
3584	-11936	-11962	-11858	-11871	MG	0.00	0.00	100.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	100.00
3584	-12727	-12726	-12655	-12656	MG	0.00	0.00	100.00
3584	-12502	-12501	-12421	-12422	MG	0.00	0.00	100.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	100.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	100.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	100.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	100.00
3584	-11378	-11448	-11447	-11377	MG	0.00	0.00	100.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	100.00
3584	-15835	-15836	-15770	-15769	MG	0.00	0.00	100.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	100.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	100.00
3584	-15439	-15440	-15374	-15373	MG	0.00	0.00	100.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	100.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	100.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	100.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	100.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	100.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	100.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	100.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	100.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	100.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	100.00
3584	-14644	-14645	-14577	-14576	MG	0.00	0.00	100.00
3584	-15307	-15308	-15242	-15241	MG	0.00	0.00	100.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	100.00
3584	-14242	-14243	-14177	-14176	MG	0.00	0.00	100.00
3584	-14908	-14909	-14843	-14842	MG	0.00	0.00	100.00
3584	-11789	-11790	-11724	-11723	MG	0.00	0.00	100.00
3584	-11652	-11653	-11586	-11585	MG	0.00	0.00	100.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	100.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	100.00
3584	-11237	-11238	-11172	-11171	MG	0.00	0.00	100.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	100.00
3584	-13161	-13162	-13094	-13093	MG	0.00	0.00	100.00
3584	-13021	-13022	-12939	-12938	MG	0.00	0.00	100.00
3584	-12860	-12861	-12791	-12790	MG	0.00	0.00	100.00

3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	100.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	100.00
3584	-13975	-13976	-13906	-13905	MG	0.00	0.00	100.00
3584	-13837	-13838	-13772	-13771	MG	0.00	0.00	100.00
3584	-13705	-13706	-13640	-13639	MG	0.00	0.00	100.00
3584	-13573	-13574	-13508	-13507	MG	0.00	0.00	100.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	100.00
3584	-11732	-11731	-11659	-11671	MG	0.00	0.00	100.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	100.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	100.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	100.00
3584	-12419	-12418	-12352	-12353	MG	0.00	0.00	100.00
3584	-12575	-12576	-12493	-12492	MG	0.00	0.00	100.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	100.00
3584	-12277	-12278	-12206	-12205	MG	0.00	0.00	100.00
3584	-12105	-12168	-12017	-12086	MG	0.00	0.00	100.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	100.00
3584	-16103	-16169	-16168	-16102	MG	0.00	0.00	100.00
3584	-12865	-12864	-12794	-12795	MG	0.00	0.00	100.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	100.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	100.00
3584	-12804	-12803	-12733	-12734	MG	0.00	0.00	100.00
3584	-12803	-12802	-12732	-12733	MG	0.00	0.00	100.00
3584	-12802	-12801	-12731	-12732	MG	0.00	0.00	100.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	100.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	100.00
3584	-10967	-10966	-10890	-10903	MG	0.00	0.00	100.00
3584	-12941	-13024	-13023	-12940	MG	0.00	0.00	100.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	100.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	100.00
3584	-10672	-10671	-10576	-10565	MG	0.00	0.00	100.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	100.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	100.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	100.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	100.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	100.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	100.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	100.00
3584	-11519	-11589	-11588	-11518	MG	0.00	0.00	100.00
3584	-11589	-11656	-11655	-11588	MG	0.00	0.00	100.00
3584	-10673	-10672	-10565	-10577	MG	0.00	0.00	100.00
3584	-10577	-10565	-10474	-10475	MG	0.00	0.00	100.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	100.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	100.00
3584	-11112	-11111	-11045	-11046	MG	0.00	0.00	100.00
3584	-11312	-11378	-11377	-11311	MG	0.00	0.00	100.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	100.00
3584	-10905	-10904	-10827	-10828	MG	0.00	0.00	100.00
3584	-11518	-11588	-11587	-11517	MG	0.00	0.00	100.00
3584	-15575	-15641	-15640	-15574	MG	0.00	0.00	100.00
3584	-10674	-10673	-10577	-10539	MG	0.00	0.00	100.00
3584	-11726	-11792	-11791	-11725	MG	0.00	0.00	100.00
3584	-11793	-11855	-11854	-11792	MG	0.00	0.00	100.00
3584	-11855	-11933	-11932	-11854	MG	0.00	0.00	100.00
3584	-11113	-11112	-11046	-11047	MG	0.00	0.00	100.00
3584	-15310	-15376	-15375	-15309	MG	0.00	0.00	100.00
3584	-12182	-12209	-12208	-12141	MG	0.00	0.00	100.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	100.00
3584	-10829	-10828	-10762	-10763	MG	0.00	0.00	100.00
3584	-10763	-10762	-10674	-10675	MG	0.00	0.00	100.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	100.00
3584	-12524	-12579	-12578	-12495	MG	0.00	0.00	100.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	100.00
3584	-10408	-10407	-10354	-10355	MG	0.00	0.00	100.00
3584	-11856	-11855	-11793	-11794	MG	0.00	0.00	100.00
3584	-11037	-11047	-10970	-10971	MG	0.00	0.00	100.00
3584	-12497	-12496	-12416	-12417	MG	0.00	0.00	100.00
3584	-16595	-16596	-16563	-16562	MG	0.00	0.00	100.00
3584	-10830	-10829	-10763	-10764	MG	0.00	0.00	100.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	100.00
3584	-12414	-12495	-12494	-12413	MG	0.00	0.00	100.00
3584	-12495	-12578	-12577	-12494	MG	0.00	0.00	100.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	100.00
3584	-10434	-10408	-10355	-10331	MG	0.00	0.00	100.00
3584	-11115	-11114	-11037	-11048	MG	0.00	0.00	100.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	100.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	100.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	100.00
3584	-10852	-10830	-10764	-10765	MG	0.00	0.00	100.00

3584	-12284	-12283	-12211	-12212	MG	0.00	0.00	100.00
3584	-10677	-10676	-10566	-10550	MG	0.00	0.00	100.00
3584	-16307	-16306	-16240	-16241	MG	0.00	0.00	100.00
3584	-10329	-10403	-10402	-10352	MG	0.00	0.00	100.00
3584	-10409	-10434	-10331	-10332	MG	0.00	0.00	100.00
3584	-16304	-16303	-16237	-16238	MG	0.00	0.00	100.00
3584	-12583	-12582	-12498	-12499	MG	0.00	0.00	100.00
3584	-10973	-10972	-10907	-10908	MG	0.00	0.00	100.00
3584	-16247	-16246	-16180	-16181	MG	0.00	0.00	100.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	100.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	100.00
3584	-16244	-16243	-16177	-16178	MG	0.00	0.00	100.00
3584	-10567	-10550	-10479	-10480	MG	0.00	0.00	100.00
3584	-10480	-10479	-10409	-10410	MG	0.00	0.00	100.00
3584	-16241	-16240	-16174	-16175	MG	0.00	0.00	100.00
3584	-11897	-11857	-11796	-11797	MG	0.00	0.00	100.00
3584	-11055	-11049	-10973	-10974	MG	0.00	0.00	100.00
3584	-16238	-16237	-16171	-16172	MG	0.00	0.00	100.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	100.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	100.00
3584	-10767	-10766	-10654	-10678	MG	0.00	0.00	100.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	100.00
3584	-10630	-10567	-10480	-10481	MG	0.00	0.00	100.00
3584	-16178	-16177	-16111	-16112	MG	0.00	0.00	100.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	100.00
3584	-11118	-11117	-11055	-11056	MG	0.00	0.00	100.00
3584	-16175	-16174	-16108	-16109	MG	0.00	0.00	100.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	100.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	100.00
3584	-16172	-16171	-16105	-16106	MG	0.00	0.00	100.00
3584	-10768	-10767	-10678	-10691	MG	0.00	0.00	100.00
3584	-10691	-10678	-10630	-10578	MG	0.00	0.00	100.00
3584	-16115	-16114	-16048	-16049	MG	0.00	0.00	100.00
3584	-11105	-11106	-11035	-11034	MG	0.00	0.00	100.00
3584	-10412	-10411	-10356	-10334	MG	0.00	0.00	100.00
3584	-16112	-16111	-16045	-16046	MG	0.00	0.00	100.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	100.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	100.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	100.00
3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	100.00
3584	-10769	-10768	-10691	-10692	MG	0.00	0.00	100.00
3584	-16106	-16105	-16039	-16040	MG	0.00	0.00	100.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	100.00
3584	-15968	-15969	-15903	-15902	MG	0.00	0.00	100.00
3584	-10413	-10412	-10334	-10335	MG	0.00	0.00	100.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	100.00
3584	-15571	-15572	-15506	-15505	MG	0.00	0.00	100.00
3584	-16046	-16045	-15979	-15980	MG	0.00	0.00	100.00
3584	-10917	-10910	-10834	-10835	MG	0.00	0.00	100.00
3584	-10835	-10834	-10769	-10770	MG	0.00	0.00	100.00
3584	-16043	-16042	-15976	-15977	MG	0.00	0.00	100.00
3584	-10821	-10822	-10756	-10755	MG	0.00	0.00	100.00
3584	-16041	-16040	-15974	-15975	MG	0.00	0.00	100.00
3584	-10484	-10483	-10413	-10414	MG	0.00	0.00	100.00
3584	-16039	-16038	-15972	-15973	MG	0.00	0.00	100.00
3584	-11121	-11120	-11058	-11059	MG	0.00	0.00	100.00
3584	-11059	-11058	-10977	-10978	MG	0.00	0.00	100.00
3584	-10978	-10977	-10917	-10911	MG	0.00	0.00	100.00
3584	-10911	-10917	-10835	-10836	MG	0.00	0.00	100.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	100.00
3584	-10771	-10770	-10679	-10680	MG	0.00	0.00	100.00
3584	-14912	-14978	-14977	-14911	MG	0.00	0.00	100.00
3584	-10580	-10568	-10484	-10485	MG	0.00	0.00	100.00
3584	-10485	-10484	-10414	-10415	MG	0.00	0.00	100.00
3584	-15113	-15178	-15177	-15112	MG	0.00	0.00	100.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	100.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	100.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	100.00
3584	-14713	-14779	-14778	-14712	MG	0.00	0.00	100.00
3584	-14779	-14845	-14844	-14778	MG	0.00	0.00	100.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	100.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	100.00
3584	-14977	-15043	-15042	-14976	MG	0.00	0.00	100.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	100.00
3584	-15112	-15177	-15176	-15111	MG	0.00	0.00	100.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	100.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	100.00
3584	-15972	-16038	-16037	-15971	MG	0.00	0.00	100.00
3584	-13437	-13438	-13366	-13365	MG	0.00	0.00	100.00

3584	-16104	-16170	-16169	-16103	MG	0.00	0.00	100.00
3584	-16170	-16236	-16235	-16169	MG	0.00	0.00	100.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	100.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	100.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	100.00
3584	-16434	-16500	-16499	-16433	MG	0.00	0.00	100.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	100.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	100.00
3584	-15971	-16037	-16036	-15970	MG	0.00	0.00	100.00
3584	-16037	-16103	-16102	-16036	MG	0.00	0.00	100.00
3584	-12866	-12865	-12795	-12796	MG	0.00	0.00	100.00
3584	-16169	-16235	-16234	-16168	MG	0.00	0.00	100.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	100.00
3584	-12805	-12804	-12734	-12735	MG	0.00	0.00	100.00
3584	-16367	-16433	-16432	-16366	MG	0.00	0.00	100.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	100.00
3584	-16499	-16565	-16564	-16498	MG	0.00	0.00	100.00
3584	-16565	-16598	-16597	-16564	MG	0.00	0.00	100.00
3584	-13302	-13369	-13368	-13301	MG	0.00	0.00	100.00
3584	-13369	-13441	-13440	-13368	MG	0.00	0.00	100.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	100.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	100.00
3584	-13577	-13643	-13642	-13576	MG	0.00	0.00	100.00
3584	-13643	-13709	-13708	-13642	MG	0.00	0.00	100.00
3584	-13709	-13775	-13774	-13708	MG	0.00	0.00	100.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	100.00
3584	-13841	-13909	-13908	-13840	MG	0.00	0.00	100.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	100.00
3584	-13301	-13368	-13367	-13300	MG	0.00	0.00	100.00
3584	-13368	-13440	-13439	-13367	MG	0.00	0.00	100.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	100.00
3584	-13510	-13576	-13575	-13509	MG	0.00	0.00	100.00
3584	-13576	-13642	-13641	-13575	MG	0.00	0.00	100.00
3584	-13642	-13708	-13707	-13641	MG	0.00	0.00	100.00
3584	-13708	-13774	-13773	-13707	MG	0.00	0.00	100.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	100.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	100.00
3584	-13908	-13978	-13977	-13907	MG	0.00	0.00	100.00
3584	-15311	-15377	-15376	-15310	MG	0.00	0.00	100.00
3584	-15377	-15443	-15442	-15376	MG	0.00	0.00	100.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	100.00
3584	-15509	-15575	-15574	-15508	MG	0.00	0.00	100.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	100.00
3584	-15641	-15707	-15706	-15640	MG	0.00	0.00	100.00
3584	-15707	-15773	-15772	-15706	MG	0.00	0.00	100.00
3584	-15773	-15839	-15838	-15772	MG	0.00	0.00	100.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	100.00
3584	-15906	-15972	-15971	-15905	MG	0.00	0.00	100.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	100.00
3584	-15376	-15442	-15441	-15375	MG	0.00	0.00	100.00
3584	-15442	-15508	-15507	-15441	MG	0.00	0.00	100.00
3584	-15508	-15574	-15573	-15507	MG	0.00	0.00	100.00
3584	-15574	-15640	-15639	-15573	MG	0.00	0.00	100.00
3584	-15825	-15892	-15891	-15824	MG	0.00	0.00	100.00
3584	-15706	-15772	-15771	-15705	MG	0.00	0.00	100.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	100.00
3584	-15838	-15905	-15904	-15837	MG	0.00	0.00	100.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	100.00
3584	-13979	-14069	-14045	-13978	MG	0.00	0.00	100.00
3584	-14069	-14114	-14113	-14045	MG	0.00	0.00	100.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	100.00
3584	-14180	-14246	-14245	-14179	MG	0.00	0.00	100.00
3584	-14246	-14312	-14311	-14245	MG	0.00	0.00	100.00
3584	-15824	-15891	-15890	-15823	MG	0.00	0.00	100.00
3584	-14378	-14444	-14443	-14377	MG	0.00	0.00	100.00
3584	-14444	-14510	-14509	-14443	MG	0.00	0.00	100.00
3584	-14510	-14580	-14579	-14509	MG	0.00	0.00	100.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	100.00
3584	-13978	-14045	-14044	-13977	MG	0.00	0.00	100.00
3584	-14045	-14113	-14112	-14044	MG	0.00	0.00	100.00
3584	-14113	-14179	-14178	-14112	MG	0.00	0.00	100.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	100.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	100.00
3584	-14311	-14377	-14376	-14310	MG	0.00	0.00	100.00
3584	-14377	-14443	-14442	-14376	MG	0.00	0.00	100.00
3584	-14443	-14509	-14508	-14442	MG	0.00	0.00	100.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	100.00
3584	-14579	-14647	-14646	-14578	MG	0.00	0.00	100.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	100.00

3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	100.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	100.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	100.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	100.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	100.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	100.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	100.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	100.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	100.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	100.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	100.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	100.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	100.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	100.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	100.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	100.00
3584	-12090	-12089	-11961	-11962	MG	0.00	0.00	100.00
3584	-11962	-11961	-11897	-11858	MG	0.00	0.00	100.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	100.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	100.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	100.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	100.00
3584	-12355	-12354	-12286	-12287	MG	0.00	0.00	100.00
3584	-12287	-12286	-12214	-12215	MG	0.00	0.00	100.00
3584	-16468	-16467	-16533	-16534	MG	0.00	0.00	100.00
3584	-12118	-12152	-12090	-12091	MG	0.00	0.00	100.00
3584	-12091	-12090	-11962	-11936	MG	0.00	0.00	100.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	100.00
3584	-11871	-11858	-11798	-11799	MG	0.00	0.00	100.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	100.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	100.00
3584	-16109	-16108	-16042	-16043	MG	0.00	0.00	100.00
3584	-10834	-10833	-10768	-10769	MG	0.00	0.00	100.00
3584	-16403	-16402	-16468	-16469	MG	0.00	0.00	100.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	100.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	100.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	100.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	100.00
3584	-15703	-15704	-15638	-15637	MG	0.00	0.00	100.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	100.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	100.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	100.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	100.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	100.00
3584	-16536	-16535	-16601	-16602	MG	0.00	0.00	100.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	100.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	100.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	100.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	100.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	100.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	100.00
3584	-14506	-14507	-14441	-14440	MG	0.00	0.00	100.00
3584	-14374	-14375	-14309	-14308	MG	0.00	0.00	100.00
3584	-16471	-16470	-16536	-16537	MG	0.00	0.00	100.00
3584	-14110	-14111	-14043	-14042	MG	0.00	0.00	100.00
3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	100.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	100.00
3584	-11515	-11516	-11446	-11445	MG	0.00	0.00	100.00
3584	-11375	-11376	-11310	-11309	MG	0.00	0.00	100.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	100.00
3584	-13298	-13299	-13230	-13229	MG	0.00	0.00	100.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	100.00
3584	-16406	-16405	-16471	-16472	MG	0.00	0.00	100.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	100.00
3584	-12720	-12721	-12650	-12649	MG	0.00	0.00	100.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	100.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	100.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	100.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	100.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	100.00
3584	-16038	-16104	-16103	-16037	MG	0.00	0.00	100.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	100.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	100.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	100.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	100.00
3584	-16368	-16434	-16433	-16367	MG	0.00	0.00	100.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	100.00
3584	-12653	-12724	-12723	-12652	MG	0.00	0.00	100.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	100.00



3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	100.00
3584	-12864	-12942	-12941	-12863	MG	0.00	0.00	100.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	100.00
3584	-13025	-13095	-13125	-13024	MG	0.00	0.00	100.00
3584	-13095	-13164	-13163	-13125	MG	0.00	0.00	100.00
3584	-16301	-16367	-16366	-16300	MG	0.00	0.00	100.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	100.00
3584	-11966	-11993	-11874	-11875	MG	0.00	0.00	100.00
3584	-11875	-11874	-11804	-11805	MG	0.00	0.00	100.00
3584	-10470	-10471	-10402	-10401	MG	0.00	0.00	100.00
3584	-10400	-10401	-10328	-10327	MG	0.00	0.00	100.00
3584	-10401	-10402	-10352	-10328	MG	0.00	0.00	100.00
3584	-10653	-10670	-10538	-10545	MG	0.00	0.00	100.00
3584	-10564	-10545	-10470	-10469	MG	0.00	0.00	100.00
3584	-10545	-10538	-10471	-10470	MG	0.00	0.00	100.00
3584	-10822	-10823	-10757	-10756	MG	0.00	0.00	100.00
3584	-10755	-10756	-10653	-10669	MG	0.00	0.00	100.00
3584	-10756	-10757	-10670	-10653	MG	0.00	0.00	100.00
3584	-10963	-10964	-10901	-10900	MG	0.00	0.00	100.00
3584	-10899	-10900	-10822	-10821	MG	0.00	0.00	100.00
3584	-10900	-10901	-10823	-10822	MG	0.00	0.00	100.00
3584	-11106	-11107	-11036	-11035	MG	0.00	0.00	100.00
3584	-11034	-11035	-10963	-10962	MG	0.00	0.00	100.00
3584	-11035	-11036	-10964	-10963	MG	0.00	0.00	100.00
3584	-11238	-11239	-11173	-11172	MG	0.00	0.00	100.00
3584	-11171	-11172	-11106	-11105	MG	0.00	0.00	100.00
3584	-11172	-11173	-11107	-11106	MG	0.00	0.00	100.00
3584	-11376	-11377	-11311	-11310	MG	0.00	0.00	100.00
3584	-11309	-11310	-11238	-11237	MG	0.00	0.00	100.00
3584	-11310	-11311	-11239	-11238	MG	0.00	0.00	100.00
3584	-11516	-11517	-11447	-11446	MG	0.00	0.00	100.00
3584	-11445	-11446	-11376	-11375	MG	0.00	0.00	100.00
3584	-11446	-11447	-11377	-11376	MG	0.00	0.00	100.00
3584	-11653	-11654	-11587	-11586	MG	0.00	0.00	100.00
3584	-11585	-11586	-11516	-11515	MG	0.00	0.00	100.00
3584	-11586	-11587	-11517	-11516	MG	0.00	0.00	100.00
3584	-11790	-11791	-11725	-11724	MG	0.00	0.00	100.00
3584	-11723	-11724	-11653	-11652	MG	0.00	0.00	100.00
3584	-11724	-11725	-11654	-11653	MG	0.00	0.00	100.00
3584	-11959	-11991	-11853	-11852	MG	0.00	0.00	100.00
3584	-11895	-11852	-11790	-11789	MG	0.00	0.00	100.00
3584	-11852	-11853	-11791	-11790	MG	0.00	0.00	100.00
3584	-12168	-12169	-12087	-12017	MG	0.00	0.00	100.00
3584	-12086	-12017	-11959	-11990	MG	0.00	0.00	100.00
3584	-12017	-12087	-11991	-11959	MG	0.00	0.00	100.00
3584	-12278	-12279	-12207	-12206	MG	0.00	0.00	100.00
3584	-12205	-12206	-12168	-12105	MG	0.00	0.00	100.00
3584	-12206	-12207	-12169	-12168	MG	0.00	0.00	100.00
3584	-12412	-12413	-12347	-12346	MG	0.00	0.00	100.00
3584	-12345	-12346	-12278	-12277	MG	0.00	0.00	100.00
3584	-12346	-12347	-12279	-12278	MG	0.00	0.00	100.00
3584	-12576	-12577	-12494	-12493	MG	0.00	0.00	100.00
3584	-12492	-12493	-12412	-12411	MG	0.00	0.00	100.00
3584	-12493	-12494	-12413	-12412	MG	0.00	0.00	100.00
3584	-12721	-12722	-12651	-12650	MG	0.00	0.00	100.00
3584	-12649	-12650	-12576	-12575	MG	0.00	0.00	100.00
3584	-12650	-12651	-12577	-12576	MG	0.00	0.00	100.00
3584	-12861	-12862	-12792	-12791	MG	0.00	0.00	100.00
3584	-12790	-12791	-12721	-12720	MG	0.00	0.00	100.00
3584	-12791	-12792	-12722	-12721	MG	0.00	0.00	100.00
3584	-13022	-13023	-12940	-12939	MG	0.00	0.00	100.00
3584	-12938	-12939	-12861	-12860	MG	0.00	0.00	100.00
3584	-12939	-12940	-12862	-12861	MG	0.00	0.00	100.00
3584	-13162	-13172	-13081	-13094	MG	0.00	0.00	100.00
3584	-13093	-13094	-13022	-13021	MG	0.00	0.00	100.00
3584	-13094	-13081	-13023	-13022	MG	0.00	0.00	100.00
3584	-13299	-13300	-13231	-13230	MG	0.00	0.00	100.00
3584	-13229	-13230	-13162	-13161	MG	0.00	0.00	100.00
3584	-13230	-13231	-13172	-13162	MG	0.00	0.00	100.00
3584	-13438	-13439	-13367	-13366	MG	0.00	0.00	100.00
3584	-13365	-13366	-13299	-13298	MG	0.00	0.00	100.00
3584	-13366	-13367	-13300	-13299	MG	0.00	0.00	100.00
3584	-13574	-13575	-13509	-13508	MG	0.00	0.00	100.00
3584	-13507	-13508	-13438	-13437	MG	0.00	0.00	100.00
3584	-13508	-13509	-13439	-13438	MG	0.00	0.00	100.00
3584	-13706	-13707	-13641	-13640	MG	0.00	0.00	100.00
3584	-13639	-13640	-13574	-13573	MG	0.00	0.00	100.00
3584	-13640	-13641	-13575	-13574	MG	0.00	0.00	100.00
3584	-13838	-13839	-13773	-13772	MG	0.00	0.00	100.00

3584	-13771	-13772	-13706	-13705	MG	0.00	0.00	100.00
3584	-13772	-13773	-13707	-13706	MG	0.00	0.00	100.00
3584	-13976	-13977	-13907	-13906	MG	0.00	0.00	100.00
3584	-13905	-13906	-13838	-13837	MG	0.00	0.00	100.00
3584	-13906	-13907	-13839	-13838	MG	0.00	0.00	100.00
3584	-14111	-14112	-14044	-14043	MG	0.00	0.00	100.00
3584	-14042	-14043	-13976	-13975	MG	0.00	0.00	100.00
3584	-14043	-14044	-13977	-13976	MG	0.00	0.00	100.00
3584	-14243	-14244	-14178	-14177	MG	0.00	0.00	100.00
3584	-14176	-14177	-14111	-14110	MG	0.00	0.00	100.00
3584	-14177	-14178	-14112	-14111	MG	0.00	0.00	100.00
3584	-14375	-14376	-14310	-14309	MG	0.00	0.00	100.00
3584	-14308	-14309	-14243	-14242	MG	0.00	0.00	100.00
3584	-14309	-14310	-14244	-14243	MG	0.00	0.00	100.00
3584	-14507	-14508	-14442	-14441	MG	0.00	0.00	100.00
3584	-14440	-14441	-14375	-14374	MG	0.00	0.00	100.00
3584	-14441	-14442	-14376	-14375	MG	0.00	0.00	100.00
3584	-14645	-14646	-14578	-14577	MG	0.00	0.00	100.00
3584	-14576	-14577	-14507	-14506	MG	0.00	0.00	100.00
3584	-14577	-14578	-14508	-14507	MG	0.00	0.00	100.00
3584	-14777	-14778	-14712	-14711	MG	0.00	0.00	100.00
3584	-14710	-14711	-14645	-14644	MG	0.00	0.00	100.00
3584	-14711	-14712	-14646	-14645	MG	0.00	0.00	100.00
3584	-14909	-14910	-14844	-14843	MG	0.00	0.00	100.00
3584	-14842	-14843	-14777	-14776	MG	0.00	0.00	100.00
3584	-14843	-14844	-14778	-14777	MG	0.00	0.00	100.00
3584	-15041	-15042	-14976	-14975	MG	0.00	0.00	100.00
3584	-14974	-14975	-14909	-14908	MG	0.00	0.00	100.00
3584	-14975	-14976	-14910	-14909	MG	0.00	0.00	100.00
3584	-15175	-15176	-15111	-15110	MG	0.00	0.00	100.00
3584	-15109	-15110	-15041	-15040	MG	0.00	0.00	100.00
3584	-15110	-15111	-15042	-15041	MG	0.00	0.00	100.00
3584	-15308	-15309	-15243	-15242	MG	0.00	0.00	100.00
3584	-15241	-15242	-15175	-15174	MG	0.00	0.00	100.00
3584	-15242	-15243	-15176	-15175	MG	0.00	0.00	100.00
3584	-15440	-15441	-15375	-15374	MG	0.00	0.00	100.00
3584	-15373	-15374	-15308	-15307	MG	0.00	0.00	100.00
3584	-15374	-15375	-15309	-15308	MG	0.00	0.00	100.00
3584	-15572	-15573	-15507	-15506	MG	0.00	0.00	100.00
3584	-15505	-15506	-15440	-15439	MG	0.00	0.00	100.00
3584	-15506	-15507	-15441	-15440	MG	0.00	0.00	100.00
3584	-15704	-15705	-15639	-15638	MG	0.00	0.00	100.00
3584	-15637	-15638	-15572	-15571	MG	0.00	0.00	100.00
3584	-15638	-15639	-15573	-15572	MG	0.00	0.00	100.00
3584	-15836	-15837	-15771	-15770	MG	0.00	0.00	100.00
3584	-15769	-15770	-15704	-15703	MG	0.00	0.00	100.00
3584	-15770	-15771	-15705	-15704	MG	0.00	0.00	100.00
3584	-15969	-15970	-15904	-15903	MG	0.00	0.00	100.00
3584	-15902	-15903	-15836	-15835	MG	0.00	0.00	100.00
3584	-15903	-15904	-15837	-15836	MG	0.00	0.00	100.00
3584	-16101	-16102	-16036	-16035	MG	0.00	0.00	100.00
3584	-16034	-16035	-15969	-15968	MG	0.00	0.00	100.00
3584	-16035	-16036	-15970	-15969	MG	0.00	0.00	100.00
3584	-16233	-16234	-16168	-16167	MG	0.00	0.00	100.00
3584	-16166	-16167	-16101	-16100	MG	0.00	0.00	100.00
3584	-16167	-16168	-16102	-16101	MG	0.00	0.00	100.00
3584	-16365	-16366	-16300	-16299	MG	0.00	0.00	100.00
3584	-16298	-16299	-16233	-16232	MG	0.00	0.00	100.00
3584	-16299	-16300	-16234	-16233	MG	0.00	0.00	100.00
3584	-16497	-16498	-16432	-16431	MG	0.00	0.00	100.00
3584	-16430	-16431	-16365	-16364	MG	0.00	0.00	100.00
3584	-16431	-16432	-16366	-16365	MG	0.00	0.00	100.00
3584	-16596	-16597	-16564	-16563	MG	0.00	0.00	100.00
3584	-16562	-16563	-16497	-16496	MG	0.00	0.00	100.00
3584	-16563	-16564	-16498	-16497	MG	0.00	0.00	100.00
3584	-16464	-16465	-16531	-16530	MG	0.00	0.00	100.00
3584	-16529	-16530	-16596	-16595	MG	0.00	0.00	100.00
3584	-16530	-16531	-16597	-16596	MG	0.00	0.00	100.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	100.00
3584	-16397	-16398	-16464	-16463	MG	0.00	0.00	100.00
3584	-16398	-16399	-16465	-16464	MG	0.00	0.00	100.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	100.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	100.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	100.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	100.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	100.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	100.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	100.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	100.00

3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	100.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	100.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	100.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	100.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	100.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	100.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	100.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	100.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	100.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	100.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	100.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	100.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	100.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	100.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	100.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	100.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	100.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	100.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	100.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	100.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	100.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	100.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	100.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	100.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	100.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	100.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	100.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	100.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	100.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	100.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	100.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	100.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	100.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	100.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	100.00
3584	-11570	-11638	-11637	-11569	MG	0.00	0.00	100.00
3584	-11638	-11708	-11707	-11637	MG	0.00	0.00	100.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	100.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	100.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	100.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	100.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	100.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	100.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	100.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	100.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	100.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	100.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	100.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	100.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	100.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	100.00
3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	100.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	100.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	100.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	100.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	100.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	100.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	100.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	100.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	100.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	100.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	100.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	100.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	100.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	100.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	100.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	100.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	100.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	100.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	100.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	100.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	100.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	100.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	100.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	100.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	100.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	100.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	100.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	100.00

3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	100.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	100.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	100.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	100.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	100.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	100.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	100.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	100.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	100.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	100.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	100.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	100.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	100.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	100.00
3584	-12586	-12585	-12501	-12502	MG	0.00	0.00	100.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	100.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	100.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	100.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	100.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	100.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	100.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	100.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	100.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	100.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	100.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	100.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	100.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	100.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	100.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	100.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	100.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	100.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	100.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	100.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	100.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	100.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	100.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	100.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	100.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	100.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	100.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	100.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	100.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	100.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	100.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	100.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	100.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	100.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	100.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	100.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	100.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	100.00
3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	100.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	100.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	100.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	100.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	100.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	100.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	100.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	100.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	100.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	100.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	100.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	100.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	100.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	100.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	100.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	100.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	100.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	100.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	100.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	100.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	100.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	100.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	100.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	100.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	100.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	100.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	100.00

3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	100.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	100.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	100.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	100.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	100.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	100.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	100.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	100.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	100.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	100.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	100.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	100.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	100.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	100.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	100.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	100.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	100.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	100.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	100.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	100.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	100.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	100.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	100.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	100.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	100.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	100.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	100.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	100.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	100.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	100.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	100.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	100.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	100.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	100.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	100.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	100.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	100.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	100.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	100.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	100.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	100.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	100.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	100.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	100.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	100.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	100.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	100.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	100.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	100.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	100.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	100.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	100.00
3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	100.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	100.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	100.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	100.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	100.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	100.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	100.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	100.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	100.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	100.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	100.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	100.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	100.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	100.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	100.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	100.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	100.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	100.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	100.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	100.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	100.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	100.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	100.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	100.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	100.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	100.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	100.00

3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	100.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	100.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	100.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	100.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	100.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	100.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	100.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	100.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	100.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	100.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	100.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	100.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	100.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	100.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	100.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	100.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	100.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	100.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	100.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	100.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	100.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	100.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	100.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	100.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	100.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	100.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	100.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	100.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	100.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	100.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	100.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	100.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	100.00
3584	-15774	-15773	-15707	-15708	MG	0.00	0.00	100.00
3584	-15708	-15707	-15641	-15642	MG	0.00	0.00	100.00
3584	-15642	-15641	-15575	-15576	MG	0.00	0.00	100.00
3584	-15576	-15575	-15509	-15510	MG	0.00	0.00	100.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	100.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	100.00
3584	-15378	-15377	-15311	-15312	MG	0.00	0.00	100.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	100.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	100.00
3584	-15841	-15840	-15774	-15775	MG	0.00	0.00	100.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	100.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	100.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	100.00
3584	-15577	-15576	-15510	-15511	MG	0.00	0.00	100.00
3584	-15511	-15510	-15444	-15445	MG	0.00	0.00	100.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	100.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	100.00
3584	-15975	-15974	-15908	-15909	MG	0.00	0.00	100.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	100.00
3584	-15842	-15841	-15775	-15776	MG	0.00	0.00	100.00
3584	-15776	-15775	-15709	-15710	MG	0.00	0.00	100.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	100.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	100.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	100.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	100.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	100.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	100.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	100.00
3584	-15910	-15909	-15842	-15843	MG	0.00	0.00	100.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	100.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	100.00
3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	100.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	100.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	100.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	100.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	100.00
3584	-15381	-15380	-15314	-15315	MG	0.00	0.00	100.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	100.00
3584	-15911	-15910	-15843	-15844	MG	0.00	0.00	100.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	100.00
3584	-15778	-15777	-15711	-15712	MG	0.00	0.00	100.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	100.00
3584	-15646	-15645	-15579	-15580	MG	0.00	0.00	100.00
3584	-15580	-15579	-15513	-15514	MG	0.00	0.00	100.00
3584	-15514	-15513	-15447	-15448	MG	0.00	0.00	100.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	100.00

3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	100.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	100.00
3584	-15912	-15911	-15844	-15845	MG	0.00	0.00	100.00
3584	-15845	-15844	-15778	-15779	MG	0.00	0.00	100.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	100.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	100.00
3584	-15647	-15646	-15580	-15581	MG	0.00	0.00	100.00
3584	-15581	-15580	-15514	-15515	MG	0.00	0.00	100.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	100.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	100.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	100.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	100.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	100.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	100.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	100.00
3584	-15714	-15713	-15647	-15648	MG	0.00	0.00	100.00
3584	-15648	-15647	-15581	-15582	MG	0.00	0.00	100.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	100.00
3584	-15516	-15515	-15449	-15450	MG	0.00	0.00	100.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	100.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	100.00
3584	-15980	-15979	-15913	-15914	MG	0.00	0.00	100.00
3584	-15914	-15913	-15846	-15847	MG	0.00	0.00	100.00
3584	-15847	-15846	-15780	-15781	MG	0.00	0.00	100.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	100.00
3584	-15715	-15714	-15648	-15649	MG	0.00	0.00	100.00
3584	-15649	-15648	-15582	-15583	MG	0.00	0.00	100.00
3584	-15583	-15582	-15516	-15517	MG	0.00	0.00	100.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	100.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	100.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	100.00
3584	-15981	-15980	-15914	-15915	MG	0.00	0.00	100.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	100.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	100.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	100.00
3584	-15716	-15715	-15649	-15650	MG	0.00	0.00	100.00
3584	-15650	-15649	-15583	-15584	MG	0.00	0.00	100.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	100.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	100.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	100.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	100.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	100.00
3584	-15916	-15915	-15848	-15849	MG	0.00	0.00	100.00
3584	-15849	-15848	-15782	-15783	MG	0.00	0.00	100.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	100.00
3584	-15717	-15716	-15650	-15651	MG	0.00	0.00	100.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	100.00
3584	-15585	-15584	-15518	-15519	MG	0.00	0.00	100.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	100.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	100.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	100.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	100.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	100.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	100.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	100.00
3584	-15718	-15717	-15651	-15652	MG	0.00	0.00	100.00
3584	-15652	-15651	-15585	-15586	MG	0.00	0.00	100.00
3584	-15586	-15585	-15519	-15520	MG	0.00	0.00	100.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	100.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	100.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	100.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	100.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	100.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	100.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	100.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	100.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	100.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	100.00
3584	-15521	-15520	-15454	-15455	MG	0.00	0.00	100.00
3584	-15455	-15454	-15388	-15389	MG	0.00	0.00	100.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	100.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	100.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	100.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	100.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	100.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	100.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	100.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	100.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	100.00

3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	100.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	100.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	100.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	100.00
3584	-13843	-13842	-13776	-13777	MG	0.00	0.00	100.00
3584	-13777	-13776	-13710	-13711	MG	0.00	0.00	100.00
3584	-13711	-13710	-13644	-13645	MG	0.00	0.00	100.00
3584	-13645	-13644	-13578	-13579	MG	0.00	0.00	100.00
3584	-13579	-13578	-13512	-13513	MG	0.00	0.00	100.00
3584	-13513	-13512	-13442	-13443	MG	0.00	0.00	100.00
3584	-13443	-13442	-13370	-13371	MG	0.00	0.00	100.00
3584	-13371	-13370	-13303	-13304	MG	0.00	0.00	100.00
3584	-14648	-14714	-14713	-14647	MG	0.00	0.00	100.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	100.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	100.00
3584	-15973	-15972	-15906	-15907	MG	0.00	0.00	100.00
3584	-12579	-12653	-12652	-12578	MG	0.00	0.00	100.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	100.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	100.00
3584	-11794	-11793	-11727	-11728	MG	0.00	0.00	100.00
3584	-13444	-13443	-13371	-13372	MG	0.00	0.00	100.00
3584	-13372	-13371	-13304	-13305	MG	0.00	0.00	100.00
3584	-13983	-13982	-13912	-13913	MG	0.00	0.00	100.00
3584	-13913	-13912	-13844	-13845	MG	0.00	0.00	100.00
3584	-13845	-13844	-13778	-13779	MG	0.00	0.00	100.00
3584	-13779	-13778	-13712	-13713	MG	0.00	0.00	100.00
3584	-13713	-13712	-13646	-13647	MG	0.00	0.00	100.00
3584	-13647	-13646	-13580	-13581	MG	0.00	0.00	100.00
3584	-13581	-13580	-13514	-13515	MG	0.00	0.00	100.00
3584	-13515	-13514	-13444	-13445	MG	0.00	0.00	100.00
3584	-13445	-13444	-13372	-13373	MG	0.00	0.00	100.00
3584	-13373	-13372	-13305	-13306	MG	0.00	0.00	100.00
3584	-13984	-13983	-13913	-13914	MG	0.00	0.00	100.00
3584	-13914	-13913	-13845	-13846	MG	0.00	0.00	100.00
3584	-13846	-13845	-13779	-13780	MG	0.00	0.00	100.00
3584	-13780	-13779	-13713	-13714	MG	0.00	0.00	100.00
3584	-13714	-13713	-13647	-13648	MG	0.00	0.00	100.00
3584	-13648	-13647	-13581	-13582	MG	0.00	0.00	100.00
3584	-13582	-13581	-13515	-13516	MG	0.00	0.00	100.00
3584	-13516	-13515	-13445	-13446	MG	0.00	0.00	100.00
3584	-13446	-13445	-13373	-13374	MG	0.00	0.00	100.00
3584	-13374	-13373	-13306	-13307	MG	0.00	0.00	100.00
3584	-13985	-13984	-13914	-13915	MG	0.00	0.00	100.00
3584	-13915	-13914	-13846	-13847	MG	0.00	0.00	100.00
3584	-13847	-13846	-13780	-13781	MG	0.00	0.00	100.00
3584	-13781	-13780	-13714	-13715	MG	0.00	0.00	100.00
3584	-13715	-13714	-13648	-13649	MG	0.00	0.00	100.00
3584	-13649	-13648	-13582	-13583	MG	0.00	0.00	100.00
3584	-13583	-13582	-13516	-13517	MG	0.00	0.00	100.00
3584	-13517	-13516	-13446	-13447	MG	0.00	0.00	100.00
3584	-13447	-13446	-13374	-13375	MG	0.00	0.00	100.00
3584	-13375	-13374	-13307	-13308	MG	0.00	0.00	100.00
3584	-13986	-13985	-13915	-13916	MG	0.00	0.00	100.00
3584	-13916	-13915	-13847	-13848	MG	0.00	0.00	100.00
3584	-13848	-13847	-13781	-13782	MG	0.00	0.00	100.00
3584	-13782	-13781	-13715	-13716	MG	0.00	0.00	100.00
3584	-13716	-13715	-13649	-13650	MG	0.00	0.00	100.00
3584	-13650	-13649	-13583	-13584	MG	0.00	0.00	100.00
3584	-13584	-13583	-13517	-13518	MG	0.00	0.00	100.00
3584	-13518	-13517	-13447	-13448	MG	0.00	0.00	100.00
3584	-13448	-13447	-13375	-13376	MG	0.00	0.00	100.00
3584	-13376	-13375	-13308	-13309	MG	0.00	0.00	100.00
3584	-13987	-13986	-13916	-13917	MG	0.00	0.00	100.00
3584	-13917	-13916	-13848	-13849	MG	0.00	0.00	100.00
3584	-13849	-13848	-13782	-13783	MG	0.00	0.00	100.00
3584	-13783	-13782	-13716	-13717	MG	0.00	0.00	100.00
3584	-13717	-13716	-13650	-13651	MG	0.00	0.00	100.00
3584	-13651	-13650	-13584	-13585	MG	0.00	0.00	100.00
3584	-13585	-13584	-13518	-13519	MG	0.00	0.00	100.00
3584	-13519	-13518	-13448	-13449	MG	0.00	0.00	100.00
3584	-13449	-13448	-13376	-13377	MG	0.00	0.00	100.00
3584	-13377	-13376	-13309	-13310	MG	0.00	0.00	100.00
3584	-13988	-13987	-13917	-13918	MG	0.00	0.00	100.00
3584	-13918	-13917	-13849	-13850	MG	0.00	0.00	100.00
3584	-13850	-13849	-13783	-13784	MG	0.00	0.00	100.00
3584	-13784	-13783	-13717	-13718	MG	0.00	0.00	100.00
3584	-13718	-13717	-13651	-13652	MG	0.00	0.00	100.00
3584	-13652	-13651	-13585	-13586	MG	0.00	0.00	100.00
3584	-13586	-13585	-13519	-13520	MG	0.00	0.00	100.00



3584	-13520	-13519	-13449	-13450	MG	0.00	0.00	100.00
3584	-13450	-13449	-13377	-13378	MG	0.00	0.00	100.00
3584	-13378	-13377	-13310	-13311	MG	0.00	0.00	100.00
3584	-13989	-13988	-13918	-13919	MG	0.00	0.00	100.00
3584	-13919	-13918	-13850	-13851	MG	0.00	0.00	100.00
3584	-13851	-13850	-13784	-13785	MG	0.00	0.00	100.00
3584	-13785	-13784	-13718	-13719	MG	0.00	0.00	100.00
3584	-13719	-13718	-13652	-13653	MG	0.00	0.00	100.00
3584	-13653	-13652	-13586	-13587	MG	0.00	0.00	100.00
3584	-13587	-13586	-13520	-13521	MG	0.00	0.00	100.00
3584	-13521	-13520	-13450	-13451	MG	0.00	0.00	100.00
3584	-13451	-13450	-13378	-13379	MG	0.00	0.00	100.00
3584	-13379	-13378	-13311	-13312	MG	0.00	0.00	100.00
3584	-13990	-13989	-13919	-13920	MG	0.00	0.00	100.00
3584	-13920	-13919	-13851	-13852	MG	0.00	0.00	100.00
3584	-13852	-13851	-13785	-13786	MG	0.00	0.00	100.00
3584	-13786	-13785	-13719	-13720	MG	0.00	0.00	100.00
3584	-13720	-13719	-13653	-13654	MG	0.00	0.00	100.00
3584	-13654	-13653	-13587	-13588	MG	0.00	0.00	100.00
3584	-13588	-13587	-13521	-13522	MG	0.00	0.00	100.00
3584	-13522	-13521	-13451	-13452	MG	0.00	0.00	100.00
3584	-13452	-13451	-13379	-13380	MG	0.00	0.00	100.00
3584	-13380	-13379	-13312	-13313	MG	0.00	0.00	100.00
3584	-13991	-13990	-13920	-13921	MG	0.00	0.00	100.00
3584	-13921	-13920	-13852	-13853	MG	0.00	0.00	100.00
3584	-13853	-13852	-13786	-13787	MG	0.00	0.00	100.00
3584	-13787	-13786	-13720	-13721	MG	0.00	0.00	100.00
3584	-13721	-13720	-13654	-13655	MG	0.00	0.00	100.00
3584	-13655	-13654	-13588	-13589	MG	0.00	0.00	100.00
3584	-13589	-13588	-13522	-13523	MG	0.00	0.00	100.00
3584	-13523	-13522	-13452	-13453	MG	0.00	0.00	100.00
3584	-13453	-13452	-13380	-13381	MG	0.00	0.00	100.00
3584	-13381	-13380	-13313	-13314	MG	0.00	0.00	100.00
3584	-15312	-15311	-15245	-15246	MG	0.00	0.00	100.00
3584	-15246	-15245	-15178	-15179	MG	0.00	0.00	100.00
3584	-15179	-15178	-15113	-15114	MG	0.00	0.00	100.00
3584	-15114	-15113	-15044	-15045	MG	0.00	0.00	100.00
3584	-15045	-15044	-14978	-14979	MG	0.00	0.00	100.00
3584	-14979	-14978	-14912	-14913	MG	0.00	0.00	100.00
3584	-14913	-14912	-14846	-14847	MG	0.00	0.00	100.00
3584	-14847	-14846	-14780	-14781	MG	0.00	0.00	100.00
3584	-14781	-14780	-14714	-14715	MG	0.00	0.00	100.00
3584	-14715	-14714	-14648	-14649	MG	0.00	0.00	100.00
3584	-15313	-15312	-15246	-15247	MG	0.00	0.00	100.00
3584	-15247	-15246	-15179	-15180	MG	0.00	0.00	100.00
3584	-15180	-15179	-15114	-15115	MG	0.00	0.00	100.00
3584	-15115	-15114	-15045	-15046	MG	0.00	0.00	100.00
3584	-15046	-15045	-14979	-14980	MG	0.00	0.00	100.00
3584	-14980	-14979	-14913	-14914	MG	0.00	0.00	100.00
3584	-14914	-14913	-14847	-14848	MG	0.00	0.00	100.00
3584	-14848	-14847	-14781	-14782	MG	0.00	0.00	100.00
3584	-14782	-14781	-14715	-14716	MG	0.00	0.00	100.00
3584	-14716	-14715	-14649	-14650	MG	0.00	0.00	100.00
3584	-15314	-15313	-15247	-15248	MG	0.00	0.00	100.00
3584	-15248	-15247	-15180	-15181	MG	0.00	0.00	100.00
3584	-15181	-15180	-15115	-15116	MG	0.00	0.00	100.00
3584	-15116	-15115	-15046	-15047	MG	0.00	0.00	100.00
3584	-15047	-15046	-14980	-14981	MG	0.00	0.00	100.00
3584	-14981	-14980	-14914	-14915	MG	0.00	0.00	100.00
3584	-14915	-14914	-14848	-14849	MG	0.00	0.00	100.00
3584	-14849	-14848	-14782	-14783	MG	0.00	0.00	100.00
3584	-14783	-14782	-14716	-14717	MG	0.00	0.00	100.00
3584	-14717	-14716	-14650	-14651	MG	0.00	0.00	100.00
3584	-15315	-15314	-15248	-15249	MG	0.00	0.00	100.00
3584	-15249	-15248	-15181	-15182	MG	0.00	0.00	100.00
3584	-15182	-15181	-15116	-15117	MG	0.00	0.00	100.00
3584	-15117	-15116	-15047	-15048	MG	0.00	0.00	100.00
3584	-15048	-15047	-14981	-14982	MG	0.00	0.00	100.00
3584	-14982	-14981	-14915	-14916	MG	0.00	0.00	100.00
3584	-14916	-14915	-14849	-14850	MG	0.00	0.00	100.00
3584	-14850	-14849	-14783	-14784	MG	0.00	0.00	100.00
3584	-14784	-14783	-14717	-14718	MG	0.00	0.00	100.00
3584	-14718	-14717	-14651	-14652	MG	0.00	0.00	100.00
3584	-15316	-15315	-15249	-15250	MG	0.00	0.00	100.00
3584	-15250	-15249	-15182	-15183	MG	0.00	0.00	100.00
3584	-15183	-15182	-15117	-15118	MG	0.00	0.00	100.00
3584	-15118	-15117	-15048	-15049	MG	0.00	0.00	100.00
3584	-15049	-15048	-14982	-14983	MG	0.00	0.00	100.00
3584	-14983	-14982	-14916	-14917	MG	0.00	0.00	100.00

3584	-14917	-14916	-14850	-14851	MG	0.00	0.00	100.00
3584	-14851	-14850	-14784	-14785	MG	0.00	0.00	100.00
3584	-14785	-14784	-14718	-14719	MG	0.00	0.00	100.00
3584	-14719	-14718	-14652	-14653	MG	0.00	0.00	100.00
3584	-15317	-15316	-15250	-15251	MG	0.00	0.00	100.00
3584	-15251	-15250	-15183	-15184	MG	0.00	0.00	100.00
3584	-15184	-15183	-15118	-15133	MG	0.00	0.00	100.00
3584	-15133	-15118	-15049	-15050	MG	0.00	0.00	100.00
3584	-15050	-15049	-14983	-14984	MG	0.00	0.00	100.00
3584	-14984	-14983	-14917	-14918	MG	0.00	0.00	100.00
3584	-14918	-14917	-14851	-14852	MG	0.00	0.00	100.00
3584	-14852	-14851	-14785	-14786	MG	0.00	0.00	100.00
3584	-14786	-14785	-14719	-14720	MG	0.00	0.00	100.00
3584	-14720	-14719	-14653	-14654	MG	0.00	0.00	100.00
3584	-15318	-15317	-15251	-15252	MG	0.00	0.00	100.00
3584	-15252	-15251	-15184	-15185	MG	0.00	0.00	100.00
3584	-15185	-15184	-15133	-15119	MG	0.00	0.00	100.00
3584	-15119	-15133	-15050	-15051	MG	0.00	0.00	100.00
3584	-15051	-15050	-14984	-14985	MG	0.00	0.00	100.00
3584	-14985	-14984	-14918	-14919	MG	0.00	0.00	100.00
3584	-14919	-14918	-14852	-14853	MG	0.00	0.00	100.00
3584	-14853	-14852	-14786	-14787	MG	0.00	0.00	100.00
3584	-14787	-14786	-14720	-14721	MG	0.00	0.00	100.00
3584	-14721	-14720	-14654	-14655	MG	0.00	0.00	100.00
3584	-15319	-15318	-15252	-15253	MG	0.00	0.00	100.00
3584	-15253	-15252	-15185	-15186	MG	0.00	0.00	100.00
3584	-15186	-15185	-15119	-15120	MG	0.00	0.00	100.00
3584	-15120	-15119	-15051	-15052	MG	0.00	0.00	100.00
3584	-15052	-15051	-14985	-14986	MG	0.00	0.00	100.00
3584	-14986	-14985	-14919	-14920	MG	0.00	0.00	100.00
3584	-14920	-14919	-14853	-14854	MG	0.00	0.00	100.00
3584	-14854	-14853	-14787	-14788	MG	0.00	0.00	100.00
3584	-14788	-14787	-14721	-14722	MG	0.00	0.00	100.00
3584	-14722	-14721	-14655	-14656	MG	0.00	0.00	100.00
3584	-15320	-15319	-15253	-15254	MG	0.00	0.00	100.00
3584	-15254	-15253	-15186	-15187	MG	0.00	0.00	100.00
3584	-15187	-15186	-15120	-15095	MG	0.00	0.00	100.00
3584	-15095	-15120	-15052	-15053	MG	0.00	0.00	100.00
3584	-15053	-15052	-14986	-14987	MG	0.00	0.00	100.00
3584	-14987	-14986	-14920	-14921	MG	0.00	0.00	100.00
3584	-14921	-14920	-14854	-14855	MG	0.00	0.00	100.00
3584	-14855	-14854	-14788	-14789	MG	0.00	0.00	100.00
3584	-14789	-14788	-14722	-14723	MG	0.00	0.00	100.00
3584	-14723	-14722	-14656	-14657	MG	0.00	0.00	100.00
3584	-15321	-15320	-15254	-15255	MG	0.00	0.00	100.00
3584	-15255	-15254	-15187	-15188	MG	0.00	0.00	100.00
3584	-15188	-15187	-15095	-15134	MG	0.00	0.00	100.00
3584	-15134	-15095	-15053	-15054	MG	0.00	0.00	100.00
3584	-15054	-15053	-14987	-14988	MG	0.00	0.00	100.00
3584	-14988	-14987	-14921	-14922	MG	0.00	0.00	100.00
3584	-14922	-14921	-14855	-14856	MG	0.00	0.00	100.00
3584	-14856	-14855	-14789	-14790	MG	0.00	0.00	100.00
3584	-14790	-14789	-14723	-14724	MG	0.00	0.00	100.00
3584	-14724	-14723	-14657	-14658	MG	0.00	0.00	100.00
3584	-12800	-12799	-12729	-12730	MG	0.00	0.00	100.00
3584	-16463	-16464	-16530	-16529	MG	0.00	0.00	100.00
3584	-12798	-12797	-12727	-12728	MG	0.00	0.00	100.00
3584	-12797	-12796	-12726	-12727	MG	0.00	0.00	100.00
3584	-12796	-12795	-12725	-12726	MG	0.00	0.00	100.00
3584	-12795	-12794	-12724	-12725	MG	0.00	0.00	100.00
3584	-12736	-12735	-12664	-12665	MG	0.00	0.00	100.00
3584	-12735	-12734	-12663	-12664	MG	0.00	0.00	100.00
3584	-12734	-12733	-12662	-12663	MG	0.00	0.00	100.00
3584	-12733	-12732	-12661	-12662	MG	0.00	0.00	100.00
3584	-12732	-12731	-12660	-12661	MG	0.00	0.00	100.00
3584	-12731	-12730	-12659	-12660	MG	0.00	0.00	100.00
3584	-12730	-12729	-12658	-12659	MG	0.00	0.00	100.00
3584	-12729	-12728	-12657	-12658	MG	0.00	0.00	100.00
3584	-15056	-15055	-14989	-14990	MG	0.00	0.00	100.00
3584	-14990	-14989	-14923	-14924	MG	0.00	0.00	100.00
3584	-12726	-12725	-12654	-12655	MG	0.00	0.00	100.00
3584	-12725	-12724	-12653	-12654	MG	0.00	0.00	100.00
3584	-12665	-12664	-12590	-12591	MG	0.00	0.00	100.00
3584	-12664	-12663	-12589	-12590	MG	0.00	0.00	100.00
3584	-14649	-14648	-14580	-14581	MG	0.00	0.00	100.00
3584	-12662	-12661	-12587	-12588	MG	0.00	0.00	100.00
3584	-12661	-12660	-12586	-12587	MG	0.00	0.00	100.00
3584	-12660	-12659	-12585	-12586	MG	0.00	0.00	100.00
3584	-12659	-12658	-12584	-12585	MG	0.00	0.00	100.00

3584	-12658	-12657	-12583	-12584	MG	0.00	0.00	100.00
3584	-12657	-12656	-12582	-12583	MG	0.00	0.00	100.00
3584	-12656	-12655	-12581	-12582	MG	0.00	0.00	100.00
3584	-14115	-14114	-14069	-14046	MG	0.00	0.00	100.00
3584	-12654	-12653	-12579	-12580	MG	0.00	0.00	100.00
3584	-12580	-12579	-12524	-12496	MG	0.00	0.00	100.00
3584	-12496	-12524	-12415	-12416	MG	0.00	0.00	100.00
3584	-12416	-12415	-12349	-12350	MG	0.00	0.00	100.00
3584	-12350	-12349	-12281	-12282	MG	0.00	0.00	100.00
3584	-14380	-14379	-14313	-14314	MG	0.00	0.00	100.00
3584	-14314	-14313	-14247	-14248	MG	0.00	0.00	100.00
3584	-14248	-14247	-14181	-14182	MG	0.00	0.00	100.00
3584	-14182	-14181	-14115	-14116	MG	0.00	0.00	100.00
3584	-14116	-14115	-14046	-14093	MG	0.00	0.00	100.00
3584	-14093	-14046	-13980	-13981	MG	0.00	0.00	100.00
3584	-14651	-14650	-14582	-14583	MG	0.00	0.00	100.00
3584	-14583	-14582	-14512	-14513	MG	0.00	0.00	100.00
3584	-14513	-14512	-14446	-14447	MG	0.00	0.00	100.00
3584	-14447	-14446	-14380	-14381	MG	0.00	0.00	100.00
3584	-14381	-14380	-14314	-14315	MG	0.00	0.00	100.00
3584	-14315	-14314	-14248	-14249	MG	0.00	0.00	100.00
3584	-14249	-14248	-14182	-14183	MG	0.00	0.00	100.00
3584	-14183	-14182	-14116	-14117	MG	0.00	0.00	100.00
3584	-14117	-14116	-14093	-14047	MG	0.00	0.00	100.00
3584	-14047	-14093	-13981	-13982	MG	0.00	0.00	100.00
3584	-14652	-14651	-14583	-14584	MG	0.00	0.00	100.00
3584	-14584	-14583	-14513	-14514	MG	0.00	0.00	100.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	100.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	100.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	100.00
3584	-14316	-14315	-14249	-14250	MG	0.00	0.00	100.00
3584	-14250	-14249	-14183	-14184	MG	0.00	0.00	100.00
3584	-14184	-14183	-14117	-14118	MG	0.00	0.00	100.00
3584	-14118	-14117	-14047	-14048	MG	0.00	0.00	100.00
3584	-14048	-14047	-13982	-13983	MG	0.00	0.00	100.00
3584	-14653	-14652	-14584	-14585	MG	0.00	0.00	100.00
3584	-14585	-14584	-14514	-14515	MG	0.00	0.00	100.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	100.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	100.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	100.00
3584	-14317	-14316	-14250	-14251	MG	0.00	0.00	100.00
3584	-14251	-14250	-14184	-14185	MG	0.00	0.00	100.00
3584	-14185	-14184	-14118	-14119	MG	0.00	0.00	100.00
3584	-14119	-14118	-14048	-14049	MG	0.00	0.00	100.00
3584	-14049	-14048	-13983	-13984	MG	0.00	0.00	100.00
3584	-14654	-14653	-14585	-14586	MG	0.00	0.00	100.00
3584	-14586	-14585	-14515	-14516	MG	0.00	0.00	100.00
3584	-14516	-14515	-14449	-14450	MG	0.00	0.00	100.00
3584	-14450	-14449	-14383	-14384	MG	0.00	0.00	100.00
3584	-14384	-14383	-14317	-14318	MG	0.00	0.00	100.00
3584	-14318	-14317	-14251	-14252	MG	0.00	0.00	100.00
3584	-14252	-14251	-14185	-14186	MG	0.00	0.00	100.00
3584	-14186	-14185	-14119	-14120	MG	0.00	0.00	100.00
3584	-14120	-14119	-14049	-14050	MG	0.00	0.00	100.00
3584	-14050	-14049	-13984	-13985	MG	0.00	0.00	100.00
3584	-14655	-14654	-14586	-14587	MG	0.00	0.00	100.00
3584	-14587	-14586	-14516	-14517	MG	0.00	0.00	100.00
3584	-14517	-14516	-14450	-14451	MG	0.00	0.00	100.00
3584	-14451	-14450	-14384	-14385	MG	0.00	0.00	100.00
3584	-14385	-14384	-14318	-14319	MG	0.00	0.00	100.00
3584	-14319	-14318	-14252	-14253	MG	0.00	0.00	100.00
3584	-14253	-14252	-14186	-14187	MG	0.00	0.00	100.00
3584	-14187	-14186	-14120	-14121	MG	0.00	0.00	100.00
3584	-14121	-14120	-14050	-14051	MG	0.00	0.00	100.00
3584	-14051	-14050	-13985	-13986	MG	0.00	0.00	100.00
3584	-14656	-14655	-14587	-14588	MG	0.00	0.00	100.00
3584	-14588	-14587	-14517	-14518	MG	0.00	0.00	100.00
3584	-14518	-14517	-14451	-14452	MG	0.00	0.00	100.00
3584	-14452	-14451	-14385	-14386	MG	0.00	0.00	100.00
3584	-14386	-14385	-14319	-14320	MG	0.00	0.00	100.00
3584	-14320	-14319	-14253	-14254	MG	0.00	0.00	100.00
3584	-14254	-14253	-14187	-14188	MG	0.00	0.00	100.00
3584	-14188	-14187	-14121	-14122	MG	0.00	0.00	100.00
3584	-14122	-14121	-14051	-14052	MG	0.00	0.00	100.00
3584	-14052	-14051	-13986	-13987	MG	0.00	0.00	100.00
3584	-14657	-14656	-14588	-14589	MG	0.00	0.00	100.00
3584	-14589	-14588	-14518	-14519	MG	0.00	0.00	100.00
3584	-14519	-14518	-14452	-14453	MG	0.00	0.00	100.00
3584	-14453	-14452	-14386	-14387	MG	0.00	0.00	100.00

3584	-14387	-14386	-14320	-14321	MG	0.00	0.00	100.00
3584	-14321	-14320	-14254	-14255	MG	0.00	0.00	100.00
3584	-14255	-14254	-14188	-14189	MG	0.00	0.00	100.00
3584	-14189	-14188	-14122	-14123	MG	0.00	0.00	100.00
3584	-14123	-14122	-14052	-14053	MG	0.00	0.00	100.00
3584	-14053	-14052	-13987	-13988	MG	0.00	0.00	100.00
3584	-14658	-14657	-14589	-14590	MG	0.00	0.00	100.00
3584	-14590	-14589	-14519	-14520	MG	0.00	0.00	100.00
3584	-14520	-14519	-14453	-14454	MG	0.00	0.00	100.00
3584	-14454	-14453	-14387	-14388	MG	0.00	0.00	100.00
3584	-14388	-14387	-14321	-14322	MG	0.00	0.00	100.00
3584	-14322	-14321	-14255	-14256	MG	0.00	0.00	100.00
3584	-14256	-14255	-14189	-14190	MG	0.00	0.00	100.00
3584	-14190	-14189	-14123	-14124	MG	0.00	0.00	100.00
3584	-14124	-14123	-14053	-14054	MG	0.00	0.00	100.00
3584	-14054	-14053	-13988	-13989	MG	0.00	0.00	100.00
3584	-14659	-14658	-14590	-14591	MG	0.00	0.00	100.00
3584	-14591	-14590	-14520	-14521	MG	0.00	0.00	100.00
3584	-14521	-14520	-14454	-14455	MG	0.00	0.00	100.00
3584	-14455	-14454	-14388	-14389	MG	0.00	0.00	100.00
3584	-14389	-14388	-14322	-14323	MG	0.00	0.00	100.00
3584	-14323	-14322	-14256	-14257	MG	0.00	0.00	100.00
3584	-14257	-14256	-14190	-14191	MG	0.00	0.00	100.00
3584	-14191	-14190	-14124	-14125	MG	0.00	0.00	100.00
3584	-14125	-14124	-14054	-14055	MG	0.00	0.00	100.00
3584	-14055	-14054	-13989	-13990	MG	0.00	0.00	100.00
3584	-14660	-14659	-14591	-14592	MG	0.00	0.00	100.00
3584	-16400	-16399	-16465	-16466	MG	0.00	0.00	100.00
3584	-16466	-16465	-16531	-16532	MG	0.00	0.00	100.00
3584	-16532	-16531	-16597	-16598	MG	0.00	0.00	100.00
3584	-14390	-14389	-14323	-14324	MG	0.00	0.00	100.00
3584	-14324	-14323	-14257	-14258	MG	0.00	0.00	100.00
3584	-14258	-14257	-14191	-14192	MG	0.00	0.00	100.00
3584	-14192	-14191	-14125	-14126	MG	0.00	0.00	100.00
3584	-14126	-14125	-14055	-14056	MG	0.00	0.00	100.00
3584	-14056	-14055	-13990	-13991	MG	0.00	0.00	100.00
3584	-16611	-16610	-16577	-16578	MG	0.00	0.00	100.00
3584	-16401	-16400	-16466	-16467	MG	0.00	0.00	100.00
3584	-16467	-16466	-16532	-16533	MG	0.00	0.00	100.00
3584	-16533	-16532	-16598	-16599	MG	0.00	0.00	100.00
3584	-16607	-16606	-16573	-16574	MG	0.00	0.00	100.00
3584	-16606	-16605	-16572	-16573	MG	0.00	0.00	100.00
3584	-16605	-16604	-16571	-16572	MG	0.00	0.00	100.00
3584	-16604	-16603	-16570	-16571	MG	0.00	0.00	100.00
3584	-16603	-16602	-16569	-16570	MG	0.00	0.00	100.00
3584	-16602	-16601	-16568	-16569	MG	0.00	0.00	100.00
3584	-16601	-16600	-16567	-16568	MG	0.00	0.00	100.00
3584	-16600	-16599	-16566	-16567	MG	0.00	0.00	100.00
3584	-16578	-16577	-16511	-16512	MG	0.00	0.00	100.00
3584	-16577	-16576	-16510	-16511	MG	0.00	0.00	100.00
3584	-16576	-16575	-16509	-16510	MG	0.00	0.00	100.00
3584	-16575	-16574	-16508	-16509	MG	0.00	0.00	100.00
3584	-16574	-16573	-16507	-16508	MG	0.00	0.00	100.00
3584	-16573	-16572	-16506	-16507	MG	0.00	0.00	100.00
3584	-16572	-16571	-16505	-16506	MG	0.00	0.00	100.00
3584	-16571	-16570	-16504	-16505	MG	0.00	0.00	100.00
3584	-16570	-16569	-16503	-16504	MG	0.00	0.00	100.00
3584	-16569	-16568	-16502	-16503	MG	0.00	0.00	100.00
3584	-16568	-16567	-16501	-16502	MG	0.00	0.00	100.00
3584	-16567	-16566	-16500	-16501	MG	0.00	0.00	100.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	100.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	100.00
3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	100.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	100.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	100.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	100.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	100.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	100.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	100.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	100.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	100.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	100.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	100.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	100.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	100.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	100.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	100.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	100.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	100.00

3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	100.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	100.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	100.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	100.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	100.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	100.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	100.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	100.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	100.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	100.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	100.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	100.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	100.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	100.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	100.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	100.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	100.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	100.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	100.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	100.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	100.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	100.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	100.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	100.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	100.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	100.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	100.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	100.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	100.00
3584	-16248	-16247	-16181	-16182	MG	0.00	0.00	100.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	100.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	100.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	100.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	100.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	100.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	100.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	100.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	100.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	100.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	100.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	100.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	100.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	100.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	100.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	100.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	100.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	100.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	100.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	100.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	100.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	100.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	100.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	100.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	100.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	100.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	100.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	100.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	100.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	100.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	100.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	100.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	100.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	100.00
3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	100.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	100.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	100.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	100.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	100.00
3584	-14504	-14570	-14569	-14503	MG	0.00	0.00	100.00
3584	-14570	-14636	-14635	-14569	MG	0.00	0.00	100.00
3584	-13972	-14039	-14038	-13971	MG	0.00	0.00	100.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	100.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	100.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	100.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	100.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	100.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	100.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	100.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	100.00

3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	100.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	100.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	100.00
3584	-15907	-15906	-15839	-15840	MG	0.00	0.00	100.00
3584	-10680	-10679	-10568	-10580	MG	0.00	0.00	100.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	100.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	100.00
3584	-10415	-10414	-10336	-10337	MG	0.00	0.00	100.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	100.00
3584	-15510	-15509	-15443	-15444	MG	0.00	0.00	100.00
3584	-15444	-15443	-15377	-15378	MG	0.00	0.00	100.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	100.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	100.00
3584	-15908	-15907	-15840	-15841	MG	0.00	0.00	100.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	100.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	100.00
3584	-15709	-15708	-15642	-15643	MG	0.00	0.00	100.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	100.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	100.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	100.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	100.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	100.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	100.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	100.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	100.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	100.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	100.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	100.00
3584	-15578	-15577	-15511	-15512	MG	0.00	0.00	100.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	100.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	100.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	100.00
3584	-15976	-15975	-15909	-15910	MG	0.00	0.00	100.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	100.00
3584	-15843	-15842	-15776	-15777	MG	0.00	0.00	100.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	100.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	100.00
3584	-15645	-15644	-15578	-15579	MG	0.00	0.00	100.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	100.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	100.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	100.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	100.00
3584	-15189	-15188	-15134	-15121	MG	0.00	0.00	100.00
3584	-15121	-15134	-15054	-15055	MG	0.00	0.00	100.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	100.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	100.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	100.00
3584	-14857	-14856	-14790	-14791	MG	0.00	0.00	100.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	100.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	100.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	100.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	100.00
3584	-15978	-15977	-15911	-15912	MG	0.00	0.00	100.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	100.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	100.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	100.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	100.00
3584	-14858	-14857	-14791	-14792	MG	0.00	0.00	100.00
3584	-14792	-14791	-14725	-14726	MG	0.00	0.00	100.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	100.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	100.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	100.00
3584	-15979	-15978	-15912	-15913	MG	0.00	0.00	100.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	100.00
3584	-15846	-15845	-15779	-15780	MG	0.00	0.00	100.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	100.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	100.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	100.00
3584	-15582	-15581	-15515	-15516	MG	0.00	0.00	100.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	100.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	100.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	100.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	100.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	100.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	100.00
3584	-15781	-15780	-15714	-15715	MG	0.00	0.00	100.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	100.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	100.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	100.00

3584	-15517	-15516	-15450	-15451	MG	0.00	0.00	100.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	100.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	100.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	100.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	100.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	100.00
3584	-15782	-15781	-15715	-15716	MG	0.00	0.00	100.00
3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	100.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	100.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	100.00
3584	-15518	-15517	-15451	-15452	MG	0.00	0.00	100.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	100.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	100.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	100.00
3584	-14448	-14447	-14381	-14382	MG	0.00	0.00	100.00
3584	-14382	-14381	-14315	-14316	MG	0.00	0.00	100.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	100.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	100.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	100.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	100.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	100.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	100.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	100.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	100.00
3584	-15917	-15916	-15849	-15850	MG	0.00	0.00	100.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	100.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	100.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	100.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	100.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	100.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	100.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	100.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	100.00
3584	-15984	-15983	-15917	-15918	MG	0.00	0.00	100.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	100.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	100.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	100.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	100.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	100.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	100.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	100.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	100.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	100.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	100.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	100.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	100.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	100.00
3584	-16534	-16533	-16599	-16600	MG	0.00	0.00	100.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	100.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	100.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	100.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	100.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	100.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	100.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	100.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	100.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	100.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	100.00
3584	-11450	-11449	-11379	-11380	MG	0.00	0.00	100.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	100.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	100.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	100.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	100.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	100.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	100.00
3584	-16404	-16403	-16469	-16470	MG	0.00	0.00	100.00
3584	-16470	-16469	-16535	-16536	MG	0.00	0.00	100.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	100.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	100.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	100.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	100.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	100.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	100.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	100.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	100.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	100.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	100.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	100.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	100.00

3584	-11382	-11381	-11315	-11316	MG	0.00	0.00	100.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	100.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	100.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	100.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	100.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	100.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	100.00
3584	-16472	-16471	-16537	-16538	MG	0.00	0.00	100.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	100.00
3584	-11453	-11452	-11382	-11383	MG	0.00	0.00	100.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	100.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	100.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	100.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	100.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	100.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	100.00
3584	-16407	-16406	-16472	-16473	MG	0.00	0.00	100.00
3584	-16473	-16472	-16538	-16539	MG	0.00	0.00	100.00
3584	-16539	-16538	-16604	-16605	MG	0.00	0.00	100.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	100.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	100.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	100.00
3584	-12724	-12794	-12793	-12723	MG	0.00	0.00	100.00
3584	-12794	-12864	-12863	-12793	MG	0.00	0.00	100.00
3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	100.00
3584	-12942	-13025	-13024	-12941	MG	0.00	0.00	100.00
3584	-16408	-16407	-16473	-16474	MG	0.00	0.00	100.00
3584	-16474	-16473	-16539	-16540	MG	0.00	0.00	100.00
3584	-13164	-13233	-13232	-13163	MG	0.00	0.00	100.00
3584	-13233	-13302	-13301	-13232	MG	0.00	0.00	100.00
3584	-12578	-12652	-12651	-12577	MG	0.00	0.00	100.00
3584	-12652	-12723	-12722	-12651	MG	0.00	0.00	100.00
3584	-12723	-12793	-12792	-12722	MG	0.00	0.00	100.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	100.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	100.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	100.00
3584	-13024	-13125	-13081	-13023	MG	0.00	0.00	100.00
3584	-13125	-13163	-13172	-13081	MG	0.00	0.00	100.00
3584	-13163	-13232	-13231	-13172	MG	0.00	0.00	100.00
3584	-13232	-13301	-13300	-13231	MG	0.00	0.00	100.00
3584	-11109	-11175	-11174	-11108	MG	0.00	0.00	100.00
3584	-11175	-11241	-11240	-11174	MG	0.00	0.00	100.00
3584	-11241	-11313	-11312	-11240	MG	0.00	0.00	100.00
3584	-11313	-11379	-11378	-11312	MG	0.00	0.00	100.00
3584	-11379	-11449	-11448	-11378	MG	0.00	0.00	100.00
3584	-11449	-11519	-11518	-11448	MG	0.00	0.00	100.00
3584	-16410	-16409	-16475	-16476	MG	0.00	0.00	100.00
3584	-16476	-16475	-16541	-16542	MG	0.00	0.00	100.00
3584	-16542	-16541	-16607	-16608	MG	0.00	0.00	100.00
3584	-11727	-11793	-11792	-11726	MG	0.00	0.00	100.00
3584	-11108	-11174	-11173	-11107	MG	0.00	0.00	100.00
3584	-11174	-11240	-11239	-11173	MG	0.00	0.00	100.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	100.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	100.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	100.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	100.00
3584	-16411	-16410	-16476	-16477	MG	0.00	0.00	100.00
3584	-11588	-11655	-11654	-11587	MG	0.00	0.00	100.00
3584	-11655	-11726	-11725	-11654	MG	0.00	0.00	100.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	100.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	100.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	100.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	100.00
3584	-12058	-12182	-12141	-12051	MG	0.00	0.00	100.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	100.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	100.00
3584	-12281	-12349	-12348	-12280	MG	0.00	0.00	100.00
3584	-16478	-16477	-16543	-16544	MG	0.00	0.00	100.00
3584	-12415	-12524	-12495	-12414	MG	0.00	0.00	100.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	100.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	100.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	100.00
3584	-11932	-12051	-12087	-11991	MG	0.00	0.00	100.00
3584	-12051	-12141	-12169	-12087	MG	0.00	0.00	100.00
3584	-12141	-12208	-12207	-12169	MG	0.00	0.00	100.00
3584	-12208	-12280	-12279	-12207	MG	0.00	0.00	100.00
3584	-12280	-12348	-12347	-12279	MG	0.00	0.00	100.00
3584	-16479	-16478	-16544	-16545	MG	0.00	0.00	100.00
3584	-16545	-16544	-16610	-16611	MG	0.00	0.00	100.00



3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	100.00
3584	3504	-10404	-10403	-10329	MG	0.00	0.00	100.00
3584	-10404	-10473	-10472	-10403	MG	0.00	0.00	100.00
3584	-10473	-10576	-10616	-10472	MG	0.00	0.00	100.00
3584	-10576	-10671	-10690	-10616	MG	0.00	0.00	100.00
3584	-10671	-10759	-10758	-10690	MG	0.00	0.00	100.00
3584	-10759	-10825	-10824	-10758	MG	0.00	0.00	100.00
3584	-10825	-10890	-10902	-10824	MG	0.00	0.00	100.00
3584	-10890	-10966	-10965	-10902	MG	0.00	0.00	100.00
3584	-10966	-11054	-11053	-10965	MG	0.00	0.00	100.00
3584	-11054	-11109	-11108	-11053	MG	0.00	0.00	100.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	100.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	100.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	100.00
3584	-10616	-10690	-10670	-10538	MG	0.00	0.00	100.00
3584	-10690	-10758	-10757	-10670	MG	0.00	0.00	100.00
3584	-10758	-10824	-10823	-10757	MG	0.00	0.00	100.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	100.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	100.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	100.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	100.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	100.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	100.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	100.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	100.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	100.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	100.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	100.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	100.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	100.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	100.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	100.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	100.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	100.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	100.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	100.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	100.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	100.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	100.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	100.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	100.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	100.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	100.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	100.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	100.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	100.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	100.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	100.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	100.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	100.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	100.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	100.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	100.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	100.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	100.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	100.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	100.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	100.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	100.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	100.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	100.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	100.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	100.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	100.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	100.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	100.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	100.00
3584	-13033	-13032	-12949	-12967	MG	0.00	0.00	100.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	100.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	100.00
3584	-13030	-13029	-12946	-12947	MG	0.00	0.00	100.00
3584	-13029	-13028	-12945	-12946	MG	0.00	0.00	100.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	100.00
3584	-13027	-13026	-12943	-12944	MG	0.00	0.00	100.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	100.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	100.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	100.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	100.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	100.00

3584	-12967	-12949	-12871	-12872	MG	0.00	0.00	100.00
3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	100.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	100.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	100.00
3584	-12946	-12945	-12867	-12868	MG	0.00	0.00	100.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	100.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	100.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	100.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	100.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	100.00
3584	-12874	-12873	-12803	-12804	MG	0.00	0.00	100.00
3584	-12873	-12872	-12802	-12803	MG	0.00	0.00	100.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	100.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	100.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	100.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	100.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	100.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	100.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	100.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	100.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	100.00
3584	-15777	-15776	-15710	-15711	MG	0.00	0.00	100.00
3584	-15711	-15710	-15644	-15645	MG	0.00	0.00	100.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	100.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	100.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	100.00
3584	-15322	-15321	-15255	-15256	MG	0.00	0.00	100.00
3584	-12799	-12798	-12728	-12729	MG	0.00	0.00	100.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	100.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	100.00
3584	-15055	-15054	-14988	-14989	MG	0.00	0.00	100.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	100.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	100.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	100.00
3584	-14791	-14790	-14724	-14725	MG	0.00	0.00	100.00
3584	-14725	-14724	-14658	-14659	MG	0.00	0.00	100.00
3584	-15323	-15322	-15256	-15257	MG	0.00	0.00	100.00
3584	-15257	-15256	-15189	-15190	MG	0.00	0.00	100.00
3584	-15190	-15189	-15121	-15122	MG	0.00	0.00	100.00
3584	-15122	-15121	-15055	-15056	MG	0.00	0.00	100.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	100.00
3584	-15779	-15778	-15712	-15713	MG	0.00	0.00	100.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	100.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	100.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	100.00
3584	-14726	-14725	-14659	-14660	MG	0.00	0.00	100.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	100.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	100.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	100.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	100.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	100.00
3584	-14313	-14312	-14246	-14247	MG	0.00	0.00	100.00
3584	-14247	-14246	-14180	-14181	MG	0.00	0.00	100.00
3584	-14181	-14180	-14114	-14115	MG	0.00	0.00	100.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	100.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	100.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	100.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	100.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	100.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	100.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	100.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	100.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	100.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	100.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	100.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	100.00
3584	-15451	-15450	-15384	-15385	MG	0.00	0.00	100.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	100.00
3584	-12417	-12416	-12350	-12351	MG	0.00	0.00	100.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	100.00
3584	-12283	-12282	-12210	-12211	MG	0.00	0.00	100.00
3584	-12211	-12210	-12183	-12106	MG	0.00	0.00	100.00
3584	-12106	-12183	-12032	-12033	MG	0.00	0.00	100.00
3584	-12033	-12032	-11960	-11934	MG	0.00	0.00	100.00
3584	-11934	-11960	-11856	-11896	MG	0.00	0.00	100.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	100.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	100.00
3584	-12498	-12497	-12417	-12418	MG	0.00	0.00	100.00
3584	-14514	-14513	-14447	-14448	MG	0.00	0.00	100.00

3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	100.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	100.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	100.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	100.00
3584	-15651	-15650	-15584	-15585	MG	0.00	0.00	100.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	100.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	100.00
3584	-15453	-15452	-15386	-15387	MG	0.00	0.00	100.00
3584	-15387	-15386	-15320	-15321	MG	0.00	0.00	100.00
3584	-14515	-14514	-14448	-14449	MG	0.00	0.00	100.00
3584	-14449	-14448	-14382	-14383	MG	0.00	0.00	100.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	100.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	100.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	100.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	100.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	100.00
3584	-15520	-15519	-15453	-15454	MG	0.00	0.00	100.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	100.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	100.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	100.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	100.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	100.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	100.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	100.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	100.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	100.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	100.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	100.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	100.00
3584	-13980	-13979	-13909	-13910	MG	0.00	0.00	100.00
3584	-13910	-13909	-13841	-13842	MG	0.00	0.00	100.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	100.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	100.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	100.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	100.00
3584	-13578	-13577	-13511	-13512	MG	0.00	0.00	100.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	100.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	100.00
3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	100.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	100.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	100.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	100.00
3584	-12216	-12215	-12118	-12142	MG	0.00	0.00	100.00
3584	-12142	-12118	-12091	-12092	MG	0.00	0.00	100.00
3584	-12092	-12091	-11936	-11963	MG	0.00	0.00	100.00
3584	-11963	-11936	-11871	-11872	MG	0.00	0.00	100.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	100.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	100.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	100.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	100.00
3584	-12357	-12356	-12288	-12289	MG	0.00	0.00	100.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	100.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	100.00
3584	-12153	-12142	-12092	-12052	MG	0.00	0.00	100.00
3584	-12052	-12092	-11963	-11964	MG	0.00	0.00	100.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	100.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	100.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	100.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	100.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	100.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	100.00
3584	-12290	-12289	-12217	-12218	MG	0.00	0.00	100.00
3584	-12218	-12217	-12153	-12154	MG	0.00	0.00	100.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	100.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	100.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	100.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	100.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	100.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	100.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	100.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	100.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	100.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	100.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	100.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	100.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	100.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	100.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	100.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	100.00

3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	100.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	100.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	100.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	100.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	100.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	100.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	100.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	100.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	100.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	100.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	100.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	100.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	100.00
3584	-11595	-11594	-11524	-11525	MG	0.00	0.00	100.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	100.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	100.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	100.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	100.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	100.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	100.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	100.00
3584	-11734	-11733	-11660	-11661	MG	0.00	0.00	100.00
3584	-11661	-11660	-11595	-11596	MG	0.00	0.00	100.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	100.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	100.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	100.00
3584	-11386	-11385	-11319	-11320	MG	0.00	0.00	100.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	100.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	100.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	100.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	100.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	100.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	100.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	100.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	100.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	100.00
3584	-11387	-11386	-11320	-11321	MG	0.00	0.00	100.00
3584	-11321	-11320	-11248	-11249	MG	0.00	0.00	100.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	100.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	100.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	100.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	100.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	100.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	100.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	100.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	100.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	100.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	100.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	100.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	100.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	100.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	100.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	100.00
3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	100.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	100.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	100.00
3584	-11389	-11388	-11322	-11323	MG	0.00	0.00	100.00
3584	-11323	-11322	-11250	-11251	MG	0.00	0.00	100.00
3584	-11251	-11250	-11184	-11185	MG	0.00	0.00	100.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	100.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	100.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	100.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	100.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	100.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	100.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	100.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	100.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	100.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	100.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	100.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	100.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	100.00
3584	-11675	-11674	-11600	-11601	MG	0.00	0.00	100.00
3584	-11601	-11600	-11530	-11531	MG	0.00	0.00	100.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	100.00
3584	-11461	-11460	-11390	-11391	MG	0.00	0.00	100.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	100.00
3584	-11325	-11324	-11252	-11253	MG	0.00	0.00	100.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	100.00

3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	100.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	100.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	100.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	100.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	100.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	100.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	100.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	100.00
3584	-13307	-13306	-13237	-13238	MG	0.00	0.00	100.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	100.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	100.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	100.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	100.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	100.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	100.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	100.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	100.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	100.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	100.00
3584	-13239	-13238	-13176	-13177	MG	0.00	0.00	100.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	100.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	100.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	100.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	100.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	100.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	100.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	100.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	100.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	100.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	100.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	100.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	100.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	100.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	100.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	100.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	100.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	100.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	100.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	100.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	100.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	100.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	100.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	100.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	100.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	100.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	100.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	100.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	100.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	100.00
3584	-13037	-13036	-12952	-12953	MG	0.00	0.00	100.00
3584	-13036	-13035	-12951	-12952	MG	0.00	0.00	100.00
3584	-13035	-13034	-12950	-12951	MG	0.00	0.00	100.00
3584	-13034	-13033	-12967	-12950	MG	0.00	0.00	100.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	100.00
3584	-13032	-13031	-12948	-12949	MG	0.00	0.00	100.00
3584	-15840	-15839	-15773	-15774	MG	0.00	0.00	100.00
3584	-11522	-11521	-11451	-11452	MG	0.00	0.00	100.00
3584	-11452	-11451	-11381	-11382	MG	0.00	0.00	100.00
3584	-13028	-13027	-12944	-12945	MG	0.00	0.00	100.00
3584	-11316	-11315	-11243	-11244	MG	0.00	0.00	100.00
3584	-13026	-13025	-12942	-12943	MG	0.00	0.00	100.00
3584	-12953	-12952	-12875	-12876	MG	0.00	0.00	100.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	100.00
3584	-15974	-15973	-15907	-15908	MG	0.00	0.00	100.00
3584	-12950	-12967	-12872	-12873	MG	0.00	0.00	100.00
3584	-11593	-11592	-11522	-11523	MG	0.00	0.00	100.00
3584	-15775	-15774	-15708	-15709	MG	0.00	0.00	100.00
3584	-12948	-12947	-12869	-12870	MG	0.00	0.00	100.00
3584	-15643	-15642	-15576	-15577	MG	0.00	0.00	100.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	100.00
3584	-12945	-12944	-12866	-12867	MG	0.00	0.00	100.00
3584	-15445	-15444	-15378	-15379	MG	0.00	0.00	100.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	100.00
3584	-12876	-12875	-12805	-12806	MG	0.00	0.00	100.00
3584	-15909	-15908	-15841	-15842	MG	0.00	0.00	100.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	100.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	100.00
3584	-15710	-15709	-15643	-15644	MG	0.00	0.00	100.00
3584	-15644	-15643	-15577	-15578	MG	0.00	0.00	100.00

3584	-12870	-12869	-12799	-12800	MG	0.00	0.00	100.00
3584	-15512	-15511	-15445	-15446	MG	0.00	0.00	100.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	100.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	100.00
3584	-11733	-11732	-11671	-11660	MG	0.00	0.00	100.00
3584	-11660	-11671	-11594	-11595	MG	0.00	0.00	100.00
3584	-12221	-12220	-12184	-12156	MG	0.00	0.00	100.00
3584	-11525	-11524	-11454	-11455	MG	0.00	0.00	100.00
3584	-11455	-11454	-11384	-11385	MG	0.00	0.00	100.00
3584	-11385	-11384	-11318	-11319	MG	0.00	0.00	100.00
3584	-15579	-15578	-15512	-15513	MG	0.00	0.00	100.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	100.00
3584	-15447	-15446	-15380	-15381	MG	0.00	0.00	100.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	100.00
3584	-10903	-10890	-10825	-10826	MG	0.00	0.00	100.00
3584	-10826	-10825	-10759	-10760	MG	0.00	0.00	100.00
3584	-15844	-15843	-15777	-15778	MG	0.00	0.00	100.00
3584	-14989	-14988	-14922	-14923	MG	0.00	0.00	100.00
3584	-15712	-15711	-15645	-15646	MG	0.00	0.00	100.00
3584	-10474	-10473	-10404	-10405	MG	0.00	0.00	100.00
3584	-11320	-11319	-11247	-11248	MG	0.00	0.00	100.00
3584	-11248	-11247	-11181	-11182	MG	0.00	0.00	100.00
3584	-15448	-15447	-15381	-15382	MG	0.00	0.00	100.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	100.00
3584	-11735	-11734	-11661	-11672	MG	0.00	0.00	100.00
3584	-11672	-11661	-11596	-11597	MG	0.00	0.00	100.00
3584	-11597	-11596	-11526	-11527	MG	0.00	0.00	100.00
3584	-11527	-11526	-11456	-11457	MG	0.00	0.00	100.00
3584	-15713	-15712	-15646	-15647	MG	0.00	0.00	100.00
3584	-10475	-10474	-10405	-10406	MG	0.00	0.00	100.00
3584	-10406	-10405	-10330	-10353	MG	0.00	0.00	100.00
3584	-15515	-15514	-15448	-15449	MG	0.00	0.00	100.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	100.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	100.00
3584	-14511	-14510	-14444	-14445	MG	0.00	0.00	100.00
3584	-15913	-15912	-15845	-15846	MG	0.00	0.00	100.00
3584	-14379	-14378	-14312	-14313	MG	0.00	0.00	100.00
3584	-15780	-15779	-15713	-15714	MG	0.00	0.00	100.00
3584	-11458	-11457	-11387	-11388	MG	0.00	0.00	100.00
3584	-11388	-11387	-11321	-11322	MG	0.00	0.00	100.00
3584	-11322	-11321	-11249	-11250	MG	0.00	0.00	100.00
3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	100.00
3584	-15450	-15449	-15383	-15384	MG	0.00	0.00	100.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	100.00
3584	-14512	-14511	-14445	-14446	MG	0.00	0.00	100.00
3584	-14446	-14445	-14379	-14380	MG	0.00	0.00	100.00
3584	-11599	-11598	-11528	-11529	MG	0.00	0.00	100.00
3584	-11529	-11528	-11458	-11459	MG	0.00	0.00	100.00
3584	-11459	-11458	-11388	-11389	MG	0.00	0.00	100.00
3584	-10477	-10476	-10407	-10408	MG	0.00	0.00	100.00
3584	-16379	-16378	-16312	-16313	MG	0.00	0.00	100.00
3584	-11114	-11113	-11047	-11037	MG	0.00	0.00	100.00
3584	-11185	-11184	-11118	-11119	MG	0.00	0.00	100.00
3584	-15385	-15384	-15318	-15319	MG	0.00	0.00	100.00
3584	-11738	-11737	-11673	-11674	MG	0.00	0.00	100.00
3584	-15915	-15914	-15847	-15848	MG	0.00	0.00	100.00
3584	-15848	-15847	-15781	-15782	MG	0.00	0.00	100.00
3584	-11530	-11529	-11459	-11460	MG	0.00	0.00	100.00
3584	-11460	-11459	-11389	-11390	MG	0.00	0.00	100.00
3584	-11390	-11389	-11323	-11324	MG	0.00	0.00	100.00
3584	-15584	-15583	-15517	-15518	MG	0.00	0.00	100.00
3584	-11896	-11856	-11794	-11795	MG	0.00	0.00	100.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	100.00
3584	-15386	-15385	-15319	-15320	MG	0.00	0.00	100.00
3584	-15982	-15981	-15915	-15916	MG	0.00	0.00	100.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	100.00
3584	-10765	-10764	-10676	-10677	MG	0.00	0.00	100.00
3584	-15783	-15782	-15716	-15717	MG	0.00	0.00	100.00
3584	-10550	-10566	-10478	-10479	MG	0.00	0.00	100.00
3584	-11391	-11390	-11324	-11325	MG	0.00	0.00	100.00
3584	-16305	-16304	-16238	-16239	MG	0.00	0.00	100.00
3584	-15519	-15518	-15452	-15453	MG	0.00	0.00	100.00
3584	-11187	-11186	-11120	-11121	MG	0.00	0.00	100.00
3584	-13314	-13313	-13244	-13245	MG	0.00	0.00	100.00
3584	-15983	-15982	-15916	-15917	MG	0.00	0.00	100.00
3584	-13312	-13311	-13242	-13243	MG	0.00	0.00	100.00
3584	-15850	-15849	-15783	-15784	MG	0.00	0.00	100.00
3584	-15784	-15783	-15717	-15718	MG	0.00	0.00	100.00
3584	-13309	-13308	-13239	-13240	MG	0.00	0.00	100.00

3584	-13308	-13307	-13238	-13239	MG	0.00	0.00	100.00
3584	-10410	-10409	-10332	-10333	MG	0.00	0.00	100.00
3584	-13306	-13305	-13236	-13237	MG	0.00	0.00	100.00
3584	-15454	-15453	-15387	-15388	MG	0.00	0.00	100.00
3584	-15388	-15387	-15321	-15322	MG	0.00	0.00	100.00
3584	-13303	-13302	-13233	-13234	MG	0.00	0.00	100.00
3584	-15918	-15917	-15850	-15851	MG	0.00	0.00	100.00
3584	-15851	-15850	-15784	-15785	MG	0.00	0.00	100.00
3584	-15785	-15784	-15718	-15719	MG	0.00	0.00	100.00
3584	-15719	-15718	-15652	-15653	MG	0.00	0.00	100.00
3584	-15653	-15652	-15586	-15587	MG	0.00	0.00	100.00
3584	-15587	-15586	-15520	-15521	MG	0.00	0.00	100.00
3584	-16176	-16175	-16109	-16110	MG	0.00	0.00	100.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	100.00
3584	-15389	-15388	-15322	-15323	MG	0.00	0.00	100.00
3584	-13236	-13235	-13173	-13174	MG	0.00	0.00	100.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	100.00
3584	-13842	-13841	-13775	-13776	MG	0.00	0.00	100.00
3584	-13776	-13775	-13709	-13710	MG	0.00	0.00	100.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	100.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	100.00
3584	-13179	-13166	-13082	-13102	MG	0.00	0.00	100.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	100.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	100.00
3584	-13370	-13369	-13302	-13303	MG	0.00	0.00	100.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	100.00
3584	-11728	-11727	-11656	-11657	MG	0.00	0.00	100.00
3584	-12288	-12287	-12215	-12216	MG	0.00	0.00	100.00
3584	-11590	-11589	-11519	-11520	MG	0.00	0.00	100.00
3584	-11520	-11519	-11449	-11450	MG	0.00	0.00	100.00
3584	-13104	-13083	-13036	-13037	MG	0.00	0.00	100.00
3584	-11380	-11379	-11313	-11314	MG	0.00	0.00	100.00
3584	-11314	-11313	-11241	-11242	MG	0.00	0.00	100.00
3584	-11242	-11241	-11175	-11176	MG	0.00	0.00	100.00
3584	-11176	-11175	-11109	-11110	MG	0.00	0.00	100.00
3584	-11795	-11794	-11728	-11729	MG	0.00	0.00	100.00
3584	-11729	-11728	-11657	-11658	MG	0.00	0.00	100.00
3584	-11658	-11657	-11590	-11591	MG	0.00	0.00	100.00
3584	-11591	-11590	-11520	-11521	MG	0.00	0.00	100.00
3584	-11521	-11520	-11450	-11451	MG	0.00	0.00	100.00
3584	-11451	-11450	-11380	-11381	MG	0.00	0.00	100.00
3584	-11381	-11380	-11314	-11315	MG	0.00	0.00	100.00
3584	-11315	-11314	-11242	-11243	MG	0.00	0.00	100.00
3584	-11243	-11242	-11176	-11177	MG	0.00	0.00	100.00
3584	-11177	-11176	-11110	-11111	MG	0.00	0.00	100.00
3584	-11796	-11795	-11729	-11730	MG	0.00	0.00	100.00
3584	-11730	-11729	-11658	-11670	MG	0.00	0.00	100.00
3584	-11670	-11658	-11591	-11592	MG	0.00	0.00	100.00
3584	-11592	-11591	-11521	-11522	MG	0.00	0.00	100.00
3584	-12154	-12153	-12052	-12018	MG	0.00	0.00	100.00
3584	-12018	-12052	-11964	-11992	MG	0.00	0.00	100.00
3584	-11992	-11964	-11859	-11873	MG	0.00	0.00	100.00
3584	-11873	-11859	-11801	-11802	MG	0.00	0.00	100.00
3584	-11244	-11243	-11177	-11178	MG	0.00	0.00	100.00
3584	-11178	-11177	-11111	-11112	MG	0.00	0.00	100.00
3584	-11797	-11796	-11730	-11731	MG	0.00	0.00	100.00
3584	-11731	-11730	-11670	-11659	MG	0.00	0.00	100.00
3584	-11659	-11670	-11592	-11593	MG	0.00	0.00	100.00
3584	-12219	-12218	-12154	-12155	MG	0.00	0.00	100.00
3584	-11523	-11522	-11452	-11453	MG	0.00	0.00	100.00
3584	-12093	-12018	-11992	-11965	MG	0.00	0.00	100.00
3584	-11383	-11382	-11316	-11317	MG	0.00	0.00	100.00
3584	-11317	-11316	-11244	-11245	MG	0.00	0.00	100.00
3584	-11245	-11244	-11178	-11179	MG	0.00	0.00	100.00
3584	-11179	-11178	-11112	-11113	MG	0.00	0.00	100.00
3584	-11798	-11797	-11731	-11732	MG	0.00	0.00	100.00
3584	-12360	-12359	-12291	-12292	MG	0.00	0.00	100.00
3584	-11671	-11659	-11593	-11594	MG	0.00	0.00	100.00
3584	-11594	-11593	-11523	-11524	MG	0.00	0.00	100.00
3584	-11524	-11523	-11453	-11454	MG	0.00	0.00	100.00
3584	-11454	-11453	-11383	-11384	MG	0.00	0.00	100.00
3584	-11384	-11383	-11317	-11318	MG	0.00	0.00	100.00
3584	-11318	-11317	-11245	-11246	MG	0.00	0.00	100.00
3584	-11246	-11245	-11179	-11180	MG	0.00	0.00	100.00
3584	-11180	-11179	-11113	-11114	MG	0.00	0.00	100.00
3584	-11799	-11798	-11732	-11733	MG	0.00	0.00	100.00
3584	-12361	-12360	-12292	-12293	MG	0.00	0.00	100.00
3584	-12293	-12292	-12220	-12221	MG	0.00	0.00	100.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	100.00

3584	-12156	-12184	-12094	-12059	MG	0.00	0.00	100.00
3584	-12059	-12094	-11993	-11966	MG	0.00	0.00	100.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	100.00
3584	-11319	-11318	-11246	-11247	MG	0.00	0.00	100.00
3584	-11247	-11246	-11180	-11181	MG	0.00	0.00	100.00
3584	-11181	-11180	-11114	-11115	MG	0.00	0.00	100.00
3584	-11800	-11799	-11733	-11734	MG	0.00	0.00	100.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	100.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	100.00
3584	-11596	-11595	-11525	-11526	MG	0.00	0.00	100.00
3584	-11526	-11525	-11455	-11456	MG	0.00	0.00	100.00
3584	-11456	-11455	-11385	-11386	MG	0.00	0.00	100.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	100.00
3584	-10405	-10404	3504	-10330	MG	0.00	0.00	100.00
3584	-11111	-11110	-11044	-11045	MG	0.00	0.00	100.00
3584	-11182	-11181	-11115	-11116	MG	0.00	0.00	100.00
3584	-11801	-11800	-11734	-11735	MG	0.00	0.00	100.00
3584	-10904	-10903	-10826	-10827	MG	0.00	0.00	100.00
3584	-10827	-10826	-10760	-10761	MG	0.00	0.00	100.00
3584	-10761	-10760	-10672	-10673	MG	0.00	0.00	100.00
3584	-16510	-16509	-16443	-16444	MG	0.00	0.00	100.00
3584	-11457	-11456	-11386	-11387	MG	0.00	0.00	100.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	100.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	100.00
3584	-11249	-11248	-11182	-11183	MG	0.00	0.00	100.00
3584	-11183	-11182	-11116	-11117	MG	0.00	0.00	100.00
3584	-11802	-11801	-11735	-11736	MG	0.00	0.00	100.00
3584	-11736	-11735	-11672	-11662	MG	0.00	0.00	100.00
3584	-11662	-11672	-11597	-11598	MG	0.00	0.00	100.00
3584	-11598	-11597	-11527	-11528	MG	0.00	0.00	100.00
3584	-11528	-11527	-11457	-11458	MG	0.00	0.00	100.00
3584	-10539	-10577	-10475	-10476	MG	0.00	0.00	100.00
3584	-10476	-10475	-10406	-10407	MG	0.00	0.00	100.00
3584	-10407	-10406	-10353	-10354	MG	0.00	0.00	100.00
3584	-11250	-11249	-11183	-11184	MG	0.00	0.00	100.00
3584	-11184	-11183	-11117	-11118	MG	0.00	0.00	100.00
3584	-11803	-11802	-11736	-11737	MG	0.00	0.00	100.00
3584	-11737	-11736	-11662	-11673	MG	0.00	0.00	100.00
3584	-11673	-11662	-11598	-11599	MG	0.00	0.00	100.00
3584	-16437	-16436	-16370	-16371	MG	0.00	0.00	100.00
3584	-10675	-10674	-10539	-10625	MG	0.00	0.00	100.00
3584	-10625	-10539	-10476	-10477	MG	0.00	0.00	100.00
3584	-16380	-16379	-16313	-16314	MG	0.00	0.00	100.00
3584	-12358	-12357	-12289	-12290	MG	0.00	0.00	100.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	100.00
3584	-16377	-16376	-16310	-16311	MG	0.00	0.00	100.00
3584	-11804	-11803	-11737	-11738	MG	0.00	0.00	100.00
3584	-10891	-10906	-10829	-10830	MG	0.00	0.00	100.00
3584	-11674	-11673	-11599	-11600	MG	0.00	0.00	100.00
3584	-11600	-11599	-11529	-11530	MG	0.00	0.00	100.00
3584	-10676	-10675	-10625	-10566	MG	0.00	0.00	100.00
3584	-10566	-10625	-10477	-10478	MG	0.00	0.00	100.00
3584	-10478	-10477	-10408	-10434	MG	0.00	0.00	100.00
3584	-11324	-11323	-11251	-11252	MG	0.00	0.00	100.00
3584	-11252	-11251	-11185	-11186	MG	0.00	0.00	100.00
3584	-11186	-11185	-11119	-11120	MG	0.00	0.00	100.00
3584	-11805	-11804	-11738	-11739	MG	0.00	0.00	100.00
3584	-11739	-11738	-11674	-11675	MG	0.00	0.00	100.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	100.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	100.00
3584	-11531	-11530	-11460	-11461	MG	0.00	0.00	100.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	100.00
3584	-10479	-10478	-10434	-10409	MG	0.00	0.00	100.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	100.00
3584	-11253	-11252	-11186	-11187	MG	0.00	0.00	100.00
3584	-11049	-11048	-10972	-10973	MG	0.00	0.00	100.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	100.00
3584	-13313	-13312	-13243	-13244	MG	0.00	0.00	100.00
3584	-10831	-10852	-10765	-10766	MG	0.00	0.00	100.00
3584	-13311	-13310	-13241	-13242	MG	0.00	0.00	100.00
3584	-13310	-13309	-13240	-13241	MG	0.00	0.00	100.00
3584	-16243	-16242	-16176	-16177	MG	0.00	0.00	100.00
3584	-16242	-16241	-16175	-16176	MG	0.00	0.00	100.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	100.00
3584	-11117	-11116	-11049	-11055	MG	0.00	0.00	100.00
3584	-13305	-13304	-13235	-13236	MG	0.00	0.00	100.00
3584	-13304	-13303	-13234	-13235	MG	0.00	0.00	100.00
3584	-10916	-10908	-10831	-10832	MG	0.00	0.00	100.00
3584	-13245	-13244	-13181	-13182	MG	0.00	0.00	100.00



3584	-13244	-13243	-13180	-13181	MG	0.00	0.00	100.00
3584	-13243	-13242	-13179	-13180	MG	0.00	0.00	100.00
3584	-13242	-13241	-13166	-13179	MG	0.00	0.00	100.00
3584	-13241	-13240	-13178	-13166	MG	0.00	0.00	100.00
3584	-13240	-13239	-13177	-13178	MG	0.00	0.00	100.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	100.00
3584	-13238	-13237	-13175	-13176	MG	0.00	0.00	100.00
3584	-13237	-13236	-13174	-13175	MG	0.00	0.00	100.00
3584	-10909	-10916	-10832	-10833	MG	0.00	0.00	100.00
3584	-13235	-13234	-13165	-13173	MG	0.00	0.00	100.00
3584	-13234	-13233	-13164	-13165	MG	0.00	0.00	100.00
3584	-13182	-13181	-13083	-13104	MG	0.00	0.00	100.00
3584	-13181	-13180	-13103	-13083	MG	0.00	0.00	100.00
3584	-13180	-13179	-13102	-13103	MG	0.00	0.00	100.00
3584	-16113	-16112	-16046	-16047	MG	0.00	0.00	100.00
3584	-13166	-13178	-13101	-13082	MG	0.00	0.00	100.00
3584	-13178	-13177	-13100	-13101	MG	0.00	0.00	100.00
3584	-13177	-13176	-13099	-13100	MG	0.00	0.00	100.00
3584	-13176	-13175	-13098	-13099	MG	0.00	0.00	100.00
3584	-13175	-13174	-13126	-13098	MG	0.00	0.00	100.00
3584	-13174	-13173	-13097	-13126	MG	0.00	0.00	100.00
3584	-13173	-13165	-13096	-13097	MG	0.00	0.00	100.00
3584	-13165	-13164	-13095	-13096	MG	0.00	0.00	100.00
3584	-10483	-10482	-10412	-10413	MG	0.00	0.00	100.00
3584	-13083	-13103	-13035	-13036	MG	0.00	0.00	100.00
3584	-13103	-13102	-13034	-13035	MG	0.00	0.00	100.00
3584	-13102	-13082	-13033	-13034	MG	0.00	0.00	100.00
3584	-13082	-13101	-13032	-13033	MG	0.00	0.00	100.00
3584	-13101	-13100	-13031	-13032	MG	0.00	0.00	100.00
3584	-13100	-13099	-13030	-13031	MG	0.00	0.00	100.00
3584	-13099	-13098	-13029	-13030	MG	0.00	0.00	100.00
3584	-13098	-13126	-13028	-13029	MG	0.00	0.00	100.00
3584	-13126	-13097	-13027	-13028	MG	0.00	0.00	100.00
3584	-13097	-13096	-13026	-13027	MG	0.00	0.00	100.00
3584	-13096	-13095	-13025	-13026	MG	0.00	0.00	100.00
3584	-11859	-11872	-11800	-11801	MG	0.00	0.00	100.00
3584	-12588	-12587	-12503	-12504	MG	0.00	0.00	100.00
3584	-12504	-12503	-12423	-12424	MG	0.00	0.00	100.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	100.00
3584	-12424	-12423	-12357	-12358	MG	0.00	0.00	100.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	100.00
3584	-13031	-13030	-12947	-12948	MG	0.00	0.00	100.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	100.00
3584	-10971	-10970	-10906	-10891	MG	0.00	0.00	100.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	100.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	100.00
3584	-12589	-12588	-12504	-12505	MG	0.00	0.00	100.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	100.00
3584	-12952	-12951	-12874	-12875	MG	0.00	0.00	100.00
3584	-12951	-12950	-12873	-12874	MG	0.00	0.00	100.00
3584	-12291	-12290	-12218	-12219	MG	0.00	0.00	100.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	100.00
3584	-12949	-12948	-12870	-12871	MG	0.00	0.00	100.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	100.00
3584	-12947	-12946	-12868	-12869	MG	0.00	0.00	100.00
3584	-11860	-11873	-11802	-11803	MG	0.00	0.00	100.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	100.00
3584	-12944	-12943	-12865	-12866	MG	0.00	0.00	100.00
3584	-12943	-12942	-12864	-12865	MG	0.00	0.00	100.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	100.00
3584	-12875	-12874	-12804	-12805	MG	0.00	0.00	100.00
3584	-12220	-12219	-12155	-12184	MG	0.00	0.00	100.00
3584	-12184	-12155	-12093	-12094	MG	0.00	0.00	100.00
3584	-12872	-12871	-12801	-12802	MG	0.00	0.00	100.00
3584	-12871	-12870	-12800	-12801	MG	0.00	0.00	100.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	100.00
3584	-12869	-12868	-12798	-12799	MG	0.00	0.00	100.00
3584	-12868	-12867	-12797	-12798	MG	0.00	0.00	100.00
3584	-12867	-12866	-12796	-12797	MG	0.00	0.00	100.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	100.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	100.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	100.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	100.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	100.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	100.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	100.00
3584	-15513	-15512	-15446	-15447	MG	0.00	0.00	100.00
3584	-11044	-11054	-10966	-10967	MG	0.00	0.00	100.00
3584	-15256	-15255	-15188	-15189	MG	0.00	0.00	100.00

3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	100.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	100.00
3584	-10760	-10759	-10671	-10672	MG	0.00	0.00	100.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	100.00
3584	-14923	-14922	-14856	-14857	MG	0.00	0.00	100.00
3584	-16173	-16172	-16106	-16107	MG	0.00	0.00	100.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	100.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	100.00
3584	-11045	-11044	-10967	-10968	MG	0.00	0.00	100.00
3584	-15382	-15381	-15315	-15316	MG	0.00	0.00	100.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	100.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	100.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	100.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	100.00
3584	-14924	-14923	-14857	-14858	MG	0.00	0.00	100.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	100.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	100.00
3584	-16506	-16505	-16439	-16440	MG	0.00	0.00	100.00
3584	-15449	-15448	-15382	-15383	MG	0.00	0.00	100.00
3584	-14581	-14580	-14510	-14511	MG	0.00	0.00	100.00
3584	-16503	-16502	-16436	-16437	MG	0.00	0.00	100.00
3584	-14445	-14444	-14378	-14379	MG	0.00	0.00	100.00
3584	-10762	-10761	-10673	-10674	MG	0.00	0.00	100.00
3584	-16446	-16445	-16379	-16380	MG	0.00	0.00	100.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	100.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	100.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	100.00
3584	-14046	-14069	-13979	-13980	MG	0.00	0.00	100.00
3584	-14650	-14649	-14581	-14582	MG	0.00	0.00	100.00
3584	-14582	-14581	-14511	-14512	MG	0.00	0.00	100.00
3584	-10906	-10905	-10828	-10829	MG	0.00	0.00	100.00
3584	-16438	-16437	-16371	-16372	MG	0.00	0.00	100.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	100.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	100.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	100.00
3584	-16435	-16434	-16368	-16369	MG	0.00	0.00	100.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	100.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	100.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	100.00
3584	-16537	-16536	-16602	-16603	MG	0.00	0.00	100.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	100.00
3584	-12351	-12350	-12282	-12283	MG	0.00	0.00	100.00
3584	-10764	-10763	-10675	-10676	MG	0.00	0.00	100.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	100.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	100.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	100.00
3584	-16369	-16368	-16302	-16303	MG	0.00	0.00	100.00
3584	-16314	-16313	-16247	-16248	MG	0.00	0.00	100.00
3584	-12582	-12581	-12497	-12498	MG	0.00	0.00	100.00
3584	-10972	-10971	-10891	-10907	MG	0.00	0.00	100.00
3584	-10907	-10891	-10830	-10852	MG	0.00	0.00	100.00
3584	-11965	-11992	-11873	-11860	MG	0.00	0.00	100.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	100.00
3584	-16308	-16307	-16241	-16242	MG	0.00	0.00	100.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	100.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	100.00
3584	-14456	-14455	-14389	-14390	MG	0.00	0.00	100.00
3584	-11116	-11115	-11048	-11049	MG	0.00	0.00	100.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	100.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	100.00
3584	-10908	-10907	-10852	-10831	MG	0.00	0.00	100.00
3584	-16246	-16245	-16179	-16180	MG	0.00	0.00	100.00
3584	-14383	-14382	-14316	-14317	MG	0.00	0.00	100.00
3584	-10654	-10677	-10550	-10567	MG	0.00	0.00	100.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	100.00
3584	-12427	-12426	-12360	-12361	MG	0.00	0.00	100.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	100.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	100.00
3584	-16239	-16238	-16172	-16173	MG	0.00	0.00	100.00
3584	-10974	-10973	-10908	-10916	MG	0.00	0.00	100.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	100.00
3584	-10832	-10831	-10766	-10767	MG	0.00	0.00	100.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	100.00
3584	-10678	-10654	-10567	-10630	MG	0.00	0.00	100.00
3584	-16179	-16178	-16112	-16113	MG	0.00	0.00	100.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	100.00
3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	100.00
3584	-16409	-16408	-16474	-16475	MG	0.00	0.00	100.00
3584	-11056	-11055	-10974	-10975	MG	0.00	0.00	100.00

3584	-10975	-10974	-10916	-10909	MG	0.00	0.00	100.00
3584	-10565	-10576	-10473	-10474	MG	0.00	0.00	100.00
3584	-10833	-10832	-10767	-10768	MG	0.00	0.00	100.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	100.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	100.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	100.00
3584	-13644	-13643	-13577	-13578	MG	0.00	0.00	100.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	100.00
3584	-13512	-13511	-13441	-13442	MG	0.00	0.00	100.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	100.00
3584	-10976	-10975	-10909	-10910	MG	0.00	0.00	100.00
3584	-12422	-12421	-12355	-12356	MG	0.00	0.00	100.00
3584	-12356	-12355	-12287	-12288	MG	0.00	0.00	100.00
3584	-16107	-16106	-16040	-16041	MG	0.00	0.00	100.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	100.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	100.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	100.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	100.00
3584	-11872	-11871	-11799	-11800	MG	0.00	0.00	100.00
3584	-12587	-12586	-12502	-12503	MG	0.00	0.00	100.00
3584	-12503	-12502	-12422	-12423	MG	0.00	0.00	100.00
3584	-12423	-12422	-12356	-12357	MG	0.00	0.00	100.00
3584	-13912	-13911	-13843	-13844	MG	0.00	0.00	100.00
3584	-12289	-12288	-12216	-12217	MG	0.00	0.00	100.00
3584	-12217	-12216	-12142	-12153	MG	0.00	0.00	100.00
3584	-13712	-13711	-13645	-13646	MG	0.00	0.00	100.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	100.00
3584	-11964	-11963	-11872	-11859	MG	0.00	0.00	100.00
3584	-13514	-13513	-13443	-13444	MG	0.00	0.00	100.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	100.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	100.00
3584	-16544	-16543	-16609	-16610	MG	0.00	0.00	100.00
3584	-11110	-11109	-11054	-11044	MG	0.00	0.00	100.00
3584	-16405	-16404	-16470	-16471	MG	0.00	0.00	100.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	100.00
3584	-10481	-10480	-10410	-10411	MG	0.00	0.00	100.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	100.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	100.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	100.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	100.00
3584	-12505	-12504	-12424	-12425	MG	0.00	0.00	100.00
3584	-12425	-12424	-12358	-12359	MG	0.00	0.00	100.00
3584	-12359	-12358	-12290	-12291	MG	0.00	0.00	100.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	100.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	100.00
3584	-12155	-12154	-12018	-12093	MG	0.00	0.00	100.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	100.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	100.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	100.00
3584	-12590	-12589	-12505	-12506	MG	0.00	0.00	100.00
3584	-12506	-12505	-12425	-12426	MG	0.00	0.00	100.00
3584	-12426	-12425	-12359	-12360	MG	0.00	0.00	100.00
3584	-16306	-16305	-16239	-16240	MG	0.00	0.00	100.00
3584	-12292	-12291	-12219	-12220	MG	0.00	0.00	100.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	100.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	100.00
3584	-12094	-12093	-11965	-11993	MG	0.00	0.00	100.00
3584	-11993	-11965	-11860	-11874	MG	0.00	0.00	100.00
3584	-11874	-11860	-11803	-11804	MG	0.00	0.00	100.00
3584	-12591	-12590	-12506	-12507	MG	0.00	0.00	100.00
3584	-12507	-12506	-12426	-12427	MG	0.00	0.00	100.00
3584	-15446	-15445	-15379	-15380	MG	0.00	0.00	100.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	100.00
3584	-16608	-16607	-16574	-16575	MG	0.00	0.00	100.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	100.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	100.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	100.00
3584	-16237	-16236	-16170	-16171	MG	0.00	0.00	100.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	100.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	100.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	100.00
3584	-16180	-16179	-16113	-16114	MG	0.00	0.00	100.00
3584	-16378	-16377	-16311	-16312	MG	0.00	0.00	100.00
3584	-10411	-10410	-10333	-10356	MG	0.00	0.00	100.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	100.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	100.00
3584	-16174	-16173	-16107	-16108	MG	0.00	0.00	100.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	100.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	100.00

3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	100.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	100.00
3584	-10968	-10967	-10903	-10904	MG	0.00	0.00	100.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	100.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	100.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	100.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	100.00
3584	-16509	-16508	-16442	-16443	MG	0.00	0.00	100.00
3584	-16508	-16507	-16441	-16442	MG	0.00	0.00	100.00
3584	-16507	-16506	-16440	-16441	MG	0.00	0.00	100.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	100.00
3584	-11046	-11045	-10968	-10969	MG	0.00	0.00	100.00
3584	-10969	-10968	-10904	-10905	MG	0.00	0.00	100.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	100.00
3584	-10828	-10827	-10761	-10762	MG	0.00	0.00	100.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	100.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	100.00
3584	-16445	-16444	-16378	-16379	MG	0.00	0.00	100.00
3584	-16444	-16443	-16377	-16378	MG	0.00	0.00	100.00
3584	-16443	-16442	-16376	-16377	MG	0.00	0.00	100.00
3584	-16442	-16441	-16375	-16376	MG	0.00	0.00	100.00
3584	-11047	-11046	-10969	-10970	MG	0.00	0.00	100.00
3584	-10970	-10969	-10905	-10906	MG	0.00	0.00	100.00
3584	-16439	-16438	-16372	-16373	MG	0.00	0.00	100.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	100.00
3584	-16412	-16411	-16477	-16478	MG	0.00	0.00	100.00
3584	-16436	-16435	-16369	-16370	MG	0.00	0.00	100.00
3584	-13580	-13579	-13513	-13514	MG	0.00	0.00	100.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	100.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	100.00
3584	-13778	-13777	-13711	-13712	MG	0.00	0.00	100.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	100.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	100.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	100.00
3584	-16374	-16373	-16307	-16308	MG	0.00	0.00	100.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	100.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	100.00
3584	-16371	-16370	-16304	-16305	MG	0.00	0.00	100.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	100.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	100.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	100.00
3584	-11048	-11037	-10971	-10972	MG	0.00	0.00	100.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	100.00
3584	-16312	-16311	-16245	-16246	MG	0.00	0.00	100.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	100.00
3584	-16309	-16308	-16242	-16243	MG	0.00	0.00	100.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	100.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	100.00
3584	-15379	-15378	-15312	-15313	MG	0.00	0.00	100.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	100.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	100.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	100.00
3584	-16303	-16302	-16236	-16237	MG	0.00	0.00	100.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	100.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	100.00
3584	-10766	-10765	-10677	-10654	MG	0.00	0.00	100.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	100.00
3584	-16044	-16043	-15977	-15978	MG	0.00	0.00	100.00
3584	-15380	-15379	-15313	-15314	MG	0.00	0.00	100.00
3584	-16609	-16608	-16575	-16576	MG	0.00	0.00	100.00
3584	-10568	-10579	-10483	-10484	MG	0.00	0.00	100.00
3584	-16240	-16239	-16173	-16174	MG	0.00	0.00	100.00
3584	-16540	-16539	-16605	-16606	MG	0.00	0.00	100.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	100.00
3584	-16440	-16439	-16373	-16374	MG	0.00	0.00	100.00
3584	-16042	-16041	-15975	-15976	MG	0.00	0.00	100.00
3584	-16182	-16181	-16115	-16116	MG	0.00	0.00	100.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	100.00
3584	-10692	-10691	-10578	-10579	MG	0.00	0.00	100.00
3584	-10579	-10578	-10482	-10483	MG	0.00	0.00	100.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	100.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	100.00
3584	-16541	-16540	-16606	-16607	MG	0.00	0.00	100.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	100.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	100.00
3584	-16171	-16170	-16104	-16105	MG	0.00	0.00	100.00
3584	-16116	-16115	-16049	-16050	MG	0.00	0.00	100.00
3584	-10578	-10630	-10481	-10482	MG	0.00	0.00	100.00
3584	-10482	-10481	-10411	-10412	MG	0.00	0.00	100.00

3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	100.00
3584	-11119	-11118	-11056	-11057	MG	0.00	0.00	100.00
3584	-11057	-11056	-10975	-10976	MG	0.00	0.00	100.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	100.00
3584	-10910	-10909	-10833	-10834	MG	0.00	0.00	100.00
3584	-16108	-16107	-16041	-16042	MG	0.00	0.00	100.00
3584	-16441	-16440	-16374	-16375	MG	0.00	0.00	100.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	100.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	100.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	100.00
3584	-16050	-16049	-15983	-15984	MG	0.00	0.00	100.00
3584	-11120	-11119	-11057	-11058	MG	0.00	0.00	100.00
3584	-11058	-11057	-10976	-10977	MG	0.00	0.00	100.00
3584	-10977	-10976	-10910	-10917	MG	0.00	0.00	100.00
3584	-16045	-16044	-15978	-15979	MG	0.00	0.00	100.00
3584	-16245	-16244	-16178	-16179	MG	0.00	0.00	100.00
3584	-10770	-10769	-10692	-10679	MG	0.00	0.00	100.00
3584	-10679	-10692	-10579	-10568	MG	0.00	0.00	100.00
3584	-16610	-16609	-16576	-16577	MG	0.00	0.00	100.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	100.00
3584	-10414	-10413	-10335	-10336	MG	0.00	0.00	100.00
3584	-13646	-13645	-13579	-13580	MG	0.00	0.00	100.00
3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	100.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	100.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	100.00
3584	-13844	-13843	-13777	-13778	MG	0.00	0.00	100.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	100.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	100.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	100.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	100.00
3584	-16375	-16374	-16308	-16309	MG	0.00	0.00	100.00
3584	-16475	-16474	-16540	-16541	MG	0.00	0.00	100.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	100.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	100.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	100.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	100.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	100.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	100.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	100.00
3584	-16538	-16537	-16603	-16604	MG	0.00	0.00	100.00
3584	-16311	-16310	-16244	-16245	MG	0.00	0.00	100.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	100.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	100.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	100.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	100.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	100.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	100.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	100.00
3584	-16504	-16503	-16437	-16438	MG	0.00	0.00	100.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	100.00
3584	-16376	-16375	-16309	-16310	MG	0.00	0.00	100.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	100.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	100.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	100.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	100.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	100.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	100.00
3584	-15384	-15383	-15317	-15318	MG	0.00	0.00	100.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	100.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	100.00
3584	-13442	-13441	-13369	-13370	MG	0.00	0.00	100.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	100.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	100.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	100.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	100.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	100.00
3584	-15383	-15382	-15316	-15317	MG	0.00	0.00	100.00
3584	-16177	-16176	-16110	-16111	MG	0.00	0.00	100.00
3584	-15101	-15162	-15161	-15100	MG	0.00	0.00	100.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	100.00
3584	-16373	-16372	-16306	-16307	MG	0.00	0.00	100.00
3584	-16372	-16371	-16305	-16306	MG	0.00	0.00	100.00
3584	-16402	-16401	-16467	-16468	MG	0.00	0.00	100.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	100.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	100.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	100.00
3584	-16512	-16511	-16445	-16446	MG	0.00	0.00	100.00
3584	-16511	-16510	-16444	-16445	MG	0.00	0.00	100.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	100.00

3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	100.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	100.00
3584	-16114	-16113	-16047	-16048	MG	0.00	0.00	100.00
3584	-16110	-16109	-16043	-16044	MG	0.00	0.00	100.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	100.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	100.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	100.00
3584	-16535	-16534	-16600	-16601	MG	0.00	0.00	100.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	100.00
3584	-16543	-16542	-16608	-16609	MG	0.00	0.00	100.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	100.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	100.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	100.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	100.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	100.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	100.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	100.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	100.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	100.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	100.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	100.00
3584	-16477	-16476	-16542	-16543	MG	0.00	0.00	100.00
3584	-16313	-16312	-16246	-16247	MG	0.00	0.00	100.00
3584	-16111	-16110	-16044	-16045	MG	0.00	0.00	100.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	100.00
3584	-16469	-16468	-16534	-16535	MG	0.00	0.00	100.00
3584	-14592	-14591	-14521	-14522	MG	0.00	0.00	100.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	100.00
3584	-16505	-16504	-16438	-16439	MG	0.00	0.00	100.00
3584	-16413	-16412	-16478	-16479	MG	0.00	0.00	100.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	100.00
3584	-16370	-16369	-16303	-16304	MG	0.00	0.00	100.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	100.00
3584	-13710	-13709	-13643	-13644	MG	0.00	0.00	100.00
3584	-15452	-15451	-15385	-15386	MG	0.00	0.00	100.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	100.00
3584	-14522	-14521	-14455	-14456	MG	0.00	0.00	100.00
3584	-16047	-16046	-15980	-15981	MG	0.00	0.00	100.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	100.00
3584	-13982	-13981	-13911	-13912	MG	0.00	0.00	100.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	100.00
3584	-13911	-13910	-13842	-13843	MG	0.00	0.00	100.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	100.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	100.00
3584	-13981	-13980	-13910	-13911	MG	0.00	0.00	100.00
3584	-16105	-16104	-16038	-16039	MG	0.00	0.00	100.00
3584	-16501	-16500	-16434	-16435	MG	0.00	0.00	100.00
3584	-16048	-16047	-15981	-15982	MG	0.00	0.00	100.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	100.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	100.00
3584	-16502	-16501	-16435	-16436	MG	0.00	0.00	100.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	100.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	100.00
3630	-15670	-15671	-15737	-15736	MG	0.00	0.00	100.00
3630	-11886	-11887	-11982	-11981	MG	0.00	0.00	100.00
3630	-15801	-15802	-15868	-15867	MG	0.00	0.00	100.00
3630	-12238	-12239	-12311	-12310	MG	0.00	0.00	100.00
3630	-15407	-15408	-15474	-15473	MG	0.00	0.00	100.00
3630	-15538	-15539	-15605	-15604	MG	0.00	0.00	100.00
3630	-11071	-11072	-11137	-11136	MG	0.00	0.00	100.00
3630	-13937	-13938	-14008	-14007	MG	0.00	0.00	100.00
3630	-14142	-14143	-14209	-14208	MG	0.00	0.00	100.00
3630	-15605	-15606	-15672	-15671	MG	0.00	0.00	100.00
3630	-14144	-14145	-14211	-14210	MG	0.00	0.00	100.00
3630	-15274	-15275	-15341	-15340	MG	0.00	0.00	100.00
3630	-11972	-11981	-12100	-12099	MG	0.00	0.00	100.00
3630	-15472	-15473	-15539	-15538	MG	0.00	0.00	100.00
3630	-10655	-10703	-10788	-10787	MG	0.00	0.00	100.00
3630	-11073	-11074	-11139	-11138	MG	0.00	0.00	100.00
3630	-15275	-15276	-15342	-15341	MG	0.00	0.00	100.00
3630	-14078	-14079	-14143	-14142	MG	0.00	0.00	100.00
3630	-14208	-14209	-14275	-14274	MG	0.00	0.00	100.00
3630	-14956	-14955	-15021	-15022	MG	0.00	0.00	100.00
3630	-10442	-10443	-10504	-10503	MG	0.00	0.00	100.00
3630	-10502	-10503	-10618	-10617	MG	0.00	0.00	100.00
3630	-15737	-15738	-15804	-15803	MG	0.00	0.00	100.00
3630	-10293	-10294	-10365	-10364	MG	0.00	0.00	100.00
3630	-12752	-12753	-12823	-12822	MG	0.00	0.00	100.00
3630	-15473	-15474	-15540	-15539	MG	0.00	0.00	100.00

3630	-15655	-15654	-15720	-15721	MG	0.00	0.00	100.00
3630	-12517	-12530	-12608	-12607	MG	0.00	0.00	100.00
3630	-16001	-16002	-16068	-16067	MG	0.00	0.00	100.00
3630	-14759	-14758	-14824	-14825	MG	0.00	0.00	100.00
3630	-15802	-15803	-15869	-15868	MG	0.00	0.00	100.00
3630	-10503	-10504	-10591	-10618	MG	0.00	0.00	100.00
3630	-15869	-15870	-15937	-15936	MG	0.00	0.00	100.00
3630	-11756	-11757	-11823	-11822	MG	0.00	0.00	100.00
3630	-13331	-13332	-13399	-13398	MG	0.00	0.00	100.00
3630	-15803	-15804	-15870	-15869	MG	0.00	0.00	100.00
3630	-15656	-15655	-15721	-15722	MG	0.00	0.00	100.00
3630	-15722	-15721	-15787	-15788	MG	0.00	0.00	100.00
3630	-10424	-10425	-10502	-10501	MG	0.00	0.00	100.00
3630	-10364	-10365	-10443	-10442	MG	0.00	0.00	100.00
3630	-14825	-14824	-14890	-14891	MG	0.00	0.00	100.00
3630	-15800	-15801	-15867	-15866	MG	0.00	0.00	100.00
3630	-15668	-15669	-15735	-15734	MG	0.00	0.00	100.00
3630	-15459	-15458	-15524	-15525	MG	0.00	0.00	100.00
3630	-15525	-15524	-15590	-15591	MG	0.00	0.00	100.00
3630	-15591	-15590	-15656	-15657	MG	0.00	0.00	100.00
3630	-14891	-14890	-14956	-14957	MG	0.00	0.00	100.00
3630	-16000	-16001	-16067	-16066	MG	0.00	0.00	100.00
3630	-15341	-15342	-15408	-15407	MG	0.00	0.00	100.00
3630	-13939	-13940	-14010	-14009	MG	0.00	0.00	100.00
3630	-13471	-13472	-13542	-13541	MG	0.00	0.00	100.00
3630	-13470	-13471	-13541	-13540	MG	0.00	0.00	100.00
3630	-16199	-16200	-16266	-16265	MG	0.00	0.00	100.00
3630	-15073	-15074	-15144	-15143	MG	0.00	0.00	100.00
3630	-15074	-15075	-15145	-15144	MG	0.00	0.00	100.00
3630	-14876	-14877	-14943	-14942	MG	0.00	0.00	100.00
3630	-15671	-15672	-15738	-15737	MG	0.00	0.00	100.00
3630	-15736	-15737	-15803	-15802	MG	0.00	0.00	100.00
3630	-15866	-15867	-15934	-15933	MG	0.00	0.00	100.00
3630	-15539	-15540	-15606	-15605	MG	0.00	0.00	100.00
3630	-15604	-15605	-15671	-15670	MG	0.00	0.00	100.00
3630	-13055	-13056	-13118	-13119	MG	0.00	0.00	100.00
3630	-12680	-12681	-12752	-12751	MG	0.00	0.00	100.00
3630	-14678	-14679	-14745	-14744	MG	0.00	0.00	100.00
3630	-12529	-12517	-12607	-12606	MG	0.00	0.00	100.00
3630	-11269	-11270	-11342	-11341	MG	0.00	0.00	100.00
3630	-14875	-14876	-14942	-14941	MG	0.00	0.00	100.00
3630	-11885	-11886	-11981	-11972	MG	0.00	0.00	100.00
3630	-14692	-14691	-14757	-14758	MG	0.00	0.00	100.00
3630	-14143	-14144	-14210	-14209	MG	0.00	0.00	100.00
3630	-16067	-16068	-16134	-16133	MG	0.00	0.00	100.00
3630	-11754	-11755	-11821	-11820	MG	0.00	0.00	100.00
3630	-10704	-10705	-10790	-10789	MG	0.00	0.00	100.00
3630	-12751	-12752	-12822	-12821	MG	0.00	0.00	100.00
3630	-14064	-14080	-14145	-14144	MG	0.00	0.00	100.00
3630	-14013	-14012	-14081	-14066	MG	0.00	0.00	100.00
3630	-14273	-14274	-14340	-14339	MG	0.00	0.00	100.00
3630	-15071	-15072	-15142	-15141	MG	0.00	0.00	100.00
3630	-12378	-12379	-12445	-12444	MG	0.00	0.00	100.00
3630	-12442	-12443	-12517	-12529	MG	0.00	0.00	100.00
3630	-15867	-15868	-15935	-15934	MG	0.00	0.00	100.00
3630	-13870	-13871	-13939	-13938	MG	0.00	0.00	100.00
3630	-13673	-13674	-13740	-13739	MG	0.00	0.00	100.00
3630	-13738	-13739	-13805	-13804	MG	0.00	0.00	100.00
3630	-12066	-12099	-12161	-12145	MG	0.00	0.00	100.00
3630	-13739	-13740	-13806	-13805	MG	0.00	0.00	100.00
3630	-13607	-13608	-13674	-13673	MG	0.00	0.00	100.00
3630	-13399	-13400	-13472	-13471	MG	0.00	0.00	100.00
3630	-15945	-15944	-16010	-16011	MG	0.00	0.00	100.00
3630	-15273	-15274	-15340	-15339	MG	0.00	0.00	100.00
3630	-11755	-11756	-11822	-11821	MG	0.00	0.00	100.00
3630	-11820	-11821	-11867	-11884	MG	0.00	0.00	100.00
3630	-14473	-14474	-14540	-14539	MG	0.00	0.00	100.00
3630	-13332	-13333	-13400	-13399	MG	0.00	0.00	100.00
3630	-12099	-12100	-12186	-12161	MG	0.00	0.00	100.00
3630	-14090	-14089	-14157	-14158	MG	0.00	0.00	100.00
3630	-11270	-11271	-11343	-11342	MG	0.00	0.00	100.00
3630	-16332	-16333	-16399	-16398	MG	0.00	0.00	100.00
3630	-13936	-13937	-14007	-14006	MG	0.00	0.00	100.00
3630	-15589	-15588	-15654	-15655	MG	0.00	0.00	100.00
3630	-14225	-14224	-14290	-14291	MG	0.00	0.00	100.00
3630	-12824	-12825	-12895	-12894	MG	0.00	0.00	100.00
3630	-12893	-12894	-12976	-12975	MG	0.00	0.00	100.00
3630	-11204	-11205	-11271	-11270	MG	0.00	0.00	100.00
3630	-15143	-15144	-15208	-15207	MG	0.00	0.00	100.00

3630	-16134	-16135	-16201	-16200	MG	0.00	0.00	100.00
3630	-15935	-15936	-16002	-16001	MG	0.00	0.00	100.00
3630	-10703	-10704	-10789	-10788	MG	0.00	0.00	100.00
3630	-16002	-16003	-16069	-16068	MG	0.00	0.00	100.00
3630	-11616	-11617	-11689	-11688	MG	0.00	0.00	100.00
3630	-11476	-11477	-11547	-11546	MG	0.00	0.00	100.00
3630	-11340	-11341	-11407	-11406	MG	0.00	0.00	100.00
3630	-11202	-11203	-11269	-11268	MG	0.00	0.00	100.00
3630	-12239	-12240	-12312	-12311	MG	0.00	0.00	100.00
3630	-12310	-12311	-12379	-12378	MG	0.00	0.00	100.00
3630	-15406	-15407	-15473	-15472	MG	0.00	0.00	100.00
3630	-12100	-12036	-12162	-12186	MG	0.00	0.00	100.00
3630	-12161	-12186	-12239	-12238	MG	0.00	0.00	100.00
3630	-12186	-12162	-12240	-12239	MG	0.00	0.00	100.00
3630	-14284	-14283	-14349	-14350	MG	0.00	0.00	100.00
3630	-14283	-14282	-14348	-14349	MG	0.00	0.00	100.00
3630	-15536	-15537	-15603	-15602	MG	0.00	0.00	100.00
3630	-14957	-14956	-15022	-15023	MG	0.00	0.00	100.00
3630	-15340	-15341	-15407	-15406	MG	0.00	0.00	100.00
3630	-15144	-15145	-15209	-15208	MG	0.00	0.00	100.00
3630	-11619	-11620	-11692	-11691	MG	0.00	0.00	100.00
3630	-14158	-14157	-14223	-14224	MG	0.00	0.00	100.00
3630	-12975	-12976	-13055	-13054	MG	0.00	0.00	100.00
3630	-13117	-13129	-13197	-13196	MG	0.00	0.00	100.00
3630	-13539	-13540	-13606	-13605	MG	0.00	0.00	100.00
3630	-13604	-13605	-13671	-13670	MG	0.00	0.00	100.00
3630	-14339	-14340	-14406	-14405	MG	0.00	0.00	100.00
3630	-12976	-12963	-13056	-13055	MG	0.00	0.00	100.00
3630	-13197	-13198	-13264	-13263	MG	0.00	0.00	100.00
3630	-14077	-14078	-14142	-14141	MG	0.00	0.00	100.00
3630	-14346	-14345	-14411	-14412	MG	0.00	0.00	100.00
3630	-13054	-13055	-13129	-13117	MG	0.00	0.00	100.00
3630	-14677	-14678	-14744	-14743	MG	0.00	0.00	100.00
3630	-13085	-13117	-13196	-13195	MG	0.00	0.00	100.00
3630	-13194	-13195	-13261	-13260	MG	0.00	0.00	100.00
3630	-11268	-11269	-11341	-11340	MG	0.00	0.00	100.00
3630	-14743	-14744	-14810	-14809	MG	0.00	0.00	100.00
3630	-11072	-11073	-11138	-11137	MG	0.00	0.00	100.00
3630	-15007	-15008	-15074	-15073	MG	0.00	0.00	100.00
3630	-15458	-15457	-15523	-15524	MG	0.00	0.00	100.00
3630	-12892	-12893	-12975	-12974	MG	0.00	0.00	100.00
3630	-16263	-16264	-16330	-16329	MG	0.00	0.00	100.00
3630	-16264	-16265	-16331	-16330	MG	0.00	0.00	100.00
3630	-16066	-16067	-16133	-16132	MG	0.00	0.00	100.00
3630	-16131	-16132	-16198	-16197	MG	0.00	0.00	100.00
3630	-16132	-16133	-16199	-16198	MG	0.00	0.00	100.00
3630	-15934	-15935	-16001	-16000	MG	0.00	0.00	100.00
3630	-15999	-16000	-16066	-16065	MG	0.00	0.00	100.00
3630	-16119	-16118	-16184	-16185	MG	0.00	0.00	100.00
3630	-16185	-16184	-16250	-16251	MG	0.00	0.00	100.00
3630	-16251	-16250	-16316	-16317	MG	0.00	0.00	100.00
3630	-16317	-16316	-16382	-16383	MG	0.00	0.00	100.00
3630	-15669	-15670	-15736	-15735	MG	0.00	0.00	100.00
3630	-12309	-12310	-12378	-12377	MG	0.00	0.00	100.00
3630	-13876	-13944	-13945	-13877	MG	0.00	0.00	100.00
3630	-15537	-15538	-15604	-15603	MG	0.00	0.00	100.00
3630	-15924	-15990	-15991	-15925	MG	0.00	0.00	100.00
3630	-15603	-15604	-15670	-15669	MG	0.00	0.00	100.00
3630	-14159	-14158	-14224	-14225	MG	0.00	0.00	100.00
3630	-15470	-15471	-15537	-15536	MG	0.00	0.00	100.00
3630	-15471	-15472	-15538	-15537	MG	0.00	0.00	100.00
3630	-16318	-16317	-16383	-16384	MG	0.00	0.00	100.00
3630	-14341	-14342	-14408	-14407	MG	0.00	0.00	100.00
3630	-11617	-11618	-11690	-11689	MG	0.00	0.00	100.00
3630	-14471	-14472	-14538	-14537	MG	0.00	0.00	100.00
3630	-11689	-11690	-11756	-11755	MG	0.00	0.00	100.00
3630	-11205	-11206	-11272	-11271	MG	0.00	0.00	100.00
3630	-15006	-15007	-15073	-15072	MG	0.00	0.00	100.00
3630	-16121	-16120	-16186	-16187	MG	0.00	0.00	100.00
3630	-15072	-15073	-15143	-15142	MG	0.00	0.00	100.00
3630	-14874	-14875	-14941	-14940	MG	0.00	0.00	100.00
3630	-14939	-14940	-15006	-15005	MG	0.00	0.00	100.00
3630	-16200	-16201	-16267	-16266	MG	0.00	0.00	100.00
3630	-12683	-12684	-12755	-12754	MG	0.00	0.00	100.00
3630	-16266	-16267	-16333	-16332	MG	0.00	0.00	100.00
3630	-12754	-12755	-12825	-12824	MG	0.00	0.00	100.00
3630	-12531	-12532	-12610	-12609	MG	0.00	0.00	100.00
3630	-12608	-12609	-12683	-12682	MG	0.00	0.00	100.00
3630	-15936	-15937	-16003	-16002	MG	0.00	0.00	100.00



3630	-14472	-14473	-14539	-14538	MG	0.00	0.00	100.00
3630	-14537	-14538	-14608	-14607	MG	0.00	0.00	100.00
3630	-14538	-14539	-14609	-14608	MG	0.00	0.00	100.00
3630	-15868	-15869	-15936	-15935	MG	0.00	0.00	100.00
3630	-14405	-14406	-14472	-14471	MG	0.00	0.00	100.00
3630	-13879	-13947	-13948	-13880	MG	0.00	0.00	100.00
3630	-13272	-13341	-13342	-13273	MG	0.00	0.00	100.00
3630	-15156	-15155	-15221	-15222	MG	0.00	0.00	100.00
3630	-15222	-15221	-15288	-15289	MG	0.00	0.00	100.00
3630	-16123	-16122	-16188	-16189	MG	0.00	0.00	100.00
3630	-14141	-14142	-14208	-14207	MG	0.00	0.00	100.00
3630	-16255	-16254	-16320	-16321	MG	0.00	0.00	100.00
3630	-16321	-16320	-16386	-16387	MG	0.00	0.00	100.00
3630	-13748	-13814	-13815	-13749	MG	0.00	0.00	100.00
3630	-14007	-14008	-14079	-14078	MG	0.00	0.00	100.00
3630	-15089	-15088	-15156	-15157	MG	0.00	0.00	100.00
3630	-13868	-13869	-13937	-13936	MG	0.00	0.00	100.00
3630	-13869	-13870	-13938	-13937	MG	0.00	0.00	100.00
3630	-13671	-13672	-13738	-13737	MG	0.00	0.00	100.00
3630	-15208	-15209	-15276	-15275	MG	0.00	0.00	100.00
3630	-15008	-15009	-15075	-15074	MG	0.00	0.00	100.00
3630	-13952	-13951	-14021	-14022	MG	0.00	0.00	100.00
3630	-13950	-13949	-14019	-14020	MG	0.00	0.00	100.00
3630	-13605	-13606	-13672	-13671	MG	0.00	0.00	100.00
3630	-14207	-14208	-14274	-14273	MG	0.00	0.00	100.00
3630	-14942	-14943	-15009	-15008	MG	0.00	0.00	100.00
3630	-14744	-14745	-14811	-14810	MG	0.00	0.00	100.00
3630	-11271	-11272	-11344	-11343	MG	0.00	0.00	100.00
3630	-14610	-14611	-14679	-14678	MG	0.00	0.00	100.00
3630	-13944	-13943	-14013	-14014	MG	0.00	0.00	100.00
3630	-13943	-13942	-14012	-14013	MG	0.00	0.00	100.00
3630	-16265	-16266	-16332	-16331	MG	0.00	0.00	100.00
3630	-14474	-14475	-14541	-14540	MG	0.00	0.00	100.00
3630	-14609	-14610	-14678	-14677	MG	0.00	0.00	100.00
3630	-16133	-16134	-16200	-16199	MG	0.00	0.00	100.00
3630	-12891	-12892	-12974	-12973	MG	0.00	0.00	100.00
3630	-15928	-15927	-15993	-15994	MG	0.00	0.00	100.00
3630	-14408	-14409	-14475	-14474	MG	0.00	0.00	100.00
3630	-14210	-14211	-14277	-14276	MG	0.00	0.00	100.00
3630	-14275	-14276	-14342	-14341	MG	0.00	0.00	100.00
3630	-14276	-14277	-14343	-14342	MG	0.00	0.00	100.00
3630	-13619	-13685	-13686	-13620	MG	0.00	0.00	100.00
3630	-16324	-16323	-16389	-16390	MG	0.00	0.00	100.00
3630	-14091	-14090	-14158	-14159	MG	0.00	0.00	100.00
3630	-12607	-12608	-12682	-12681	MG	0.00	0.00	100.00
3630	-14008	-14009	-14064	-14079	MG	0.00	0.00	100.00
3630	-14009	-14010	-14080	-14064	MG	0.00	0.00	100.00
3630	-13805	-13806	-13872	-13871	MG	0.00	0.00	100.00
3630	-14086	-14085	-14153	-14154	MG	0.00	0.00	100.00
3630	-13871	-13872	-13940	-13939	MG	0.00	0.00	100.00
3630	-14084	-14083	-14151	-14152	MG	0.00	0.00	100.00
3630	-14083	-14067	-14150	-14151	MG	0.00	0.00	100.00
3630	-14067	-14082	-14149	-14150	MG	0.00	0.00	100.00
3630	-13541	-13542	-13608	-13607	MG	0.00	0.00	100.00
3630	-15405	-15406	-15472	-15471	MG	0.00	0.00	100.00
3630	-11980	-12010	-12066	-12098	MG	0.00	0.00	100.00
3630	-12010	-11972	-12099	-12066	MG	0.00	0.00	100.00
3630	-14157	-14156	-14222	-14223	MG	0.00	0.00	100.00
3630	-14156	-14155	-14221	-14222	MG	0.00	0.00	100.00
3630	-13263	-13264	-13333	-13332	MG	0.00	0.00	100.00
3630	-14154	-14153	-14219	-14220	MG	0.00	0.00	100.00
3630	-15924	-15923	-15989	-15990	MG	0.00	0.00	100.00
3630	-13129	-13118	-13198	-13197	MG	0.00	0.00	100.00
3630	-13196	-13197	-13263	-13262	MG	0.00	0.00	100.00
3630	-14150	-14149	-14215	-14216	MG	0.00	0.00	100.00
3630	-14149	-14148	-14214	-14215	MG	0.00	0.00	100.00
3630	-14148	-14147	-14213	-14214	MG	0.00	0.00	100.00
3630	-11406	-11407	-11477	-11476	MG	0.00	0.00	100.00
3630	-11407	-11408	-11478	-11477	MG	0.00	0.00	100.00
3630	-11203	-11204	-11270	-11269	MG	0.00	0.00	100.00
3630	-12894	-12895	-12963	-12976	MG	0.00	0.00	100.00
3630	-16261	-16260	-16326	-16327	MG	0.00	0.00	100.00
3630	-14675	-14676	-14742	-14741	MG	0.00	0.00	100.00
3630	-11342	-11343	-11409	-11408	MG	0.00	0.00	100.00
3630	-11478	-11479	-11549	-11548	MG	0.00	0.00	100.00
3630	-11618	-11619	-11691	-11690	MG	0.00	0.00	100.00
3630	-12609	-12610	-12684	-12683	MG	0.00	0.00	100.00
3630	-12379	-12380	-12446	-12445	MG	0.00	0.00	100.00
3630	-12444	-12445	-12531	-12530	MG	0.00	0.00	100.00

3630	-12445	-12446	-12532	-12531	MG	0.00	0.00	100.00
3630	-10809	-10859	-10930	-10929	MG	0.00	0.00	100.00
3630	-10632	-10617	-10703	-10655	MG	0.00	0.00	100.00
3630	-12311	-12312	-12380	-12379	MG	0.00	0.00	100.00
3630	-15058	-15057	-15123	-15124	MG	0.00	0.00	100.00
3630	-15124	-15123	-15191	-15192	MG	0.00	0.00	100.00
3630	-10500	-10501	-10632	-10590	MG	0.00	0.00	100.00
3630	-10501	-10502	-10617	-10632	MG	0.00	0.00	100.00
3630	-10291	-10292	-10363	-10362	MG	0.00	0.00	100.00
3630	-11981	-11982	-12036	-12100	MG	0.00	0.00	100.00
3630	-15404	-15405	-15471	-15470	MG	0.00	0.00	100.00
3630	-15023	-15022	-15088	-15089	MG	0.00	0.00	100.00
3630	-12530	-12531	-12609	-12608	MG	0.00	0.00	100.00
3630	-12682	-12683	-12754	-12753	MG	0.00	0.00	100.00
3630	-12823	-12824	-12894	-12893	MG	0.00	0.00	100.00
3630	-11691	-11692	-11758	-11757	MG	0.00	0.00	100.00
3630	-11479	-11480	-11550	-11549	MG	0.00	0.00	100.00
3630	-11548	-11549	-11619	-11618	MG	0.00	0.00	100.00
3630	-13951	-13950	-14020	-14021	MG	0.00	0.00	100.00
3630	-11343	-11344	-11410	-11409	MG	0.00	0.00	100.00
3630	-11408	-11409	-11479	-11478	MG	0.00	0.00	100.00
3630	-11409	-11410	-11480	-11479	MG	0.00	0.00	100.00
3630	-14347	-14346	-14412	-14413	MG	0.00	0.00	100.00
3630	-13936	-13935	-14005	-14006	MG	0.00	0.00	100.00
3630	-13942	-13941	-14011	-14012	MG	0.00	0.00	100.00
3630	-11074	-11075	-11140	-11139	MG	0.00	0.00	100.00
3630	-11138	-11139	-11205	-11204	MG	0.00	0.00	100.00
3630	-14024	-14023	-14090	-14091	MG	0.00	0.00	100.00
3630	-10931	-10932	-10997	-10996	MG	0.00	0.00	100.00
3630	-14539	-14540	-14610	-14609	MG	0.00	0.00	100.00
3630	-12753	-12754	-12824	-12823	MG	0.00	0.00	100.00
3630	-14407	-14408	-14474	-14473	MG	0.00	0.00	100.00
3630	-10859	-10860	-10931	-10930	MG	0.00	0.00	100.00
3630	-10860	-10861	-10932	-10931	MG	0.00	0.00	100.00
3630	-10618	-10591	-10705	-10704	MG	0.00	0.00	100.00
3630	-10289	3501	-10359	-10360	MG	0.00	0.00	100.00
3630	-10361	-10360	-10441	-10423	MG	0.00	0.00	100.00
3630	-10360	-10359	-10440	-10441	MG	0.00	0.00	100.00
3630	-10423	-10441	-10499	-10500	MG	0.00	0.00	100.00
3630	-14486	-14485	-14551	-14552	MG	0.00	0.00	100.00
3630	-14485	-14484	-14550	-14551	MG	0.00	0.00	100.00
3630	-10363	-10364	-10442	-10425	MG	0.00	0.00	100.00
3630	-10590	-10589	-10701	-10702	MG	0.00	0.00	100.00
3630	-10589	-10588	-10700	-10701	MG	0.00	0.00	100.00
3630	-10702	-10701	-10785	-10786	MG	0.00	0.00	100.00
3630	-10701	-10700	-10784	-10785	MG	0.00	0.00	100.00
3630	-10786	-10785	-10843	-10858	MG	0.00	0.00	100.00
3630	-10785	-10784	-10842	-10843	MG	0.00	0.00	100.00
3630	-10858	-10843	-10928	-10893	MG	0.00	0.00	100.00
3630	-15602	-15603	-15669	-15668	MG	0.00	0.00	100.00
3630	-16054	-16053	-16119	-16120	MG	0.00	0.00	100.00
3630	-14552	-14551	-14621	-14622	MG	0.00	0.00	100.00
3630	-10993	-10992	-11070	-11071	MG	0.00	0.00	100.00
3630	-10992	-10991	-11069	-11070	MG	0.00	0.00	100.00
3630	-13259	-13258	-13327	-13328	MG	0.00	0.00	100.00
3630	-13328	-13327	-13394	-13395	MG	0.00	0.00	100.00
3630	-15339	-15340	-15406	-15405	MG	0.00	0.00	100.00
3630	-14153	-14152	-14218	-14219	MG	0.00	0.00	100.00
3630	-15205	-15206	-15273	-15272	MG	0.00	0.00	100.00
3630	-15206	-15207	-15274	-15273	MG	0.00	0.00	100.00
3630	-16055	-16054	-16120	-16121	MG	0.00	0.00	100.00
3630	-11889	-12011	-11983	-11890	MG	0.00	0.00	100.00
3630	-13801	-13800	-13866	-13867	MG	0.00	0.00	100.00
3630	-13867	-13866	-13934	-13935	MG	0.00	0.00	100.00
3630	-13260	-13259	-13328	-13329	MG	0.00	0.00	100.00
3630	-13329	-13328	-13395	-13396	MG	0.00	0.00	100.00
3630	-13396	-13395	-13467	-13468	MG	0.00	0.00	100.00
3630	-13468	-13467	-13537	-13538	MG	0.00	0.00	100.00
3630	-16068	-16069	-16135	-16134	MG	0.00	0.00	100.00
3630	-14608	-14609	-14677	-14676	MG	0.00	0.00	100.00
3630	-15326	-15325	-15391	-15392	MG	0.00	0.00	100.00
3630	-14676	-14677	-14743	-14742	MG	0.00	0.00	100.00
3630	-13802	-13801	-13867	-13868	MG	0.00	0.00	100.00
3630	-13868	-13867	-13935	-13936	MG	0.00	0.00	100.00
3630	-11753	-11752	-11818	-11819	MG	0.00	0.00	100.00
3630	-11819	-11818	-11882	-11883	MG	0.00	0.00	100.00
3630	-11883	-11882	-12009	-11971	MG	0.00	0.00	100.00
3630	-11971	-12009	-12097	-12065	MG	0.00	0.00	100.00
3630	-12065	-12097	-12160	-12119	MG	0.00	0.00	100.00

3630	-15991	-15990	-16056	-16057	MG	0.00	0.00	100.00
3630	-14274	-14275	-14341	-14340	MG	0.00	0.00	100.00
3630	-10839	-10918	-10919	-10853	MG	0.00	0.00	100.00
3630	-12375	-12374	-12440	-12441	MG	0.00	0.00	100.00
3630	-12441	-12440	-12547	-12528	MG	0.00	0.00	100.00
3630	-11754	-11753	-11819	-11820	MG	0.00	0.00	100.00
3630	-11820	-11819	-11883	-11884	MG	0.00	0.00	100.00
3630	-11884	-11883	-11971	-11980	MG	0.00	0.00	100.00
3630	-11980	-11971	-12065	-12098	MG	0.00	0.00	100.00
3630	-12098	-12065	-12119	-12113	MG	0.00	0.00	100.00
3630	-15157	-15156	-15222	-15223	MG	0.00	0.00	100.00
3630	-15207	-15208	-15275	-15274	MG	0.00	0.00	100.00
3630	-13954	-13953	-14023	-14024	MG	0.00	0.00	100.00
3630	-13737	-13738	-13804	-13803	MG	0.00	0.00	100.00
3630	-16256	-16255	-16321	-16322	MG	0.00	0.00	100.00
3630	-16322	-16321	-16387	-16388	MG	0.00	0.00	100.00
3630	-12605	-12604	-12678	-12679	MG	0.00	0.00	100.00
3630	-14941	-14942	-15008	-15007	MG	0.00	0.00	100.00
3630	-12750	-12749	-12819	-12820	MG	0.00	0.00	100.00
3630	-13469	-13470	-13540	-13539	MG	0.00	0.00	100.00
3630	-14809	-14810	-14876	-14875	MG	0.00	0.00	100.00
3630	-14810	-14811	-14877	-14876	MG	0.00	0.00	100.00
3630	-13330	-13331	-13398	-13397	MG	0.00	0.00	100.00
3630	-13552	-13618	-13619	-13553	MG	0.00	0.00	100.00
3630	-13618	-13684	-13685	-13619	MG	0.00	0.00	100.00
3630	-13195	-13196	-13262	-13261	MG	0.00	0.00	100.00
3630	-12822	-12823	-12893	-12892	MG	0.00	0.00	100.00
3630	-14540	-14541	-14611	-14610	MG	0.00	0.00	100.00
3630	-14342	-14343	-14409	-14408	MG	0.00	0.00	100.00
3630	-12821	-12820	-12890	-12891	MG	0.00	0.00	100.00
3630	-15994	-15993	-16059	-16060	MG	0.00	0.00	100.00
3630	-16060	-16059	-16125	-16126	MG	0.00	0.00	100.00
3630	-12681	-12682	-12753	-12752	MG	0.00	0.00	100.00
3630	-13553	-13619	-13620	-13554	MG	0.00	0.00	100.00
3630	-13194	-13193	-13259	-13260	MG	0.00	0.00	100.00
3630	-11070	-11069	-11134	-11135	MG	0.00	0.00	100.00
3630	-12606	-12607	-12681	-12680	MG	0.00	0.00	100.00
3630	-11201	-11200	-11266	-11267	MG	0.00	0.00	100.00
3630	-12377	-12378	-12444	-12443	MG	0.00	0.00	100.00
3630	-15929	-15928	-15994	-15995	MG	0.00	0.00	100.00
3630	-12443	-12444	-12530	-12517	MG	0.00	0.00	100.00
3630	-12237	-12238	-12310	-12309	MG	0.00	0.00	100.00
3630	-14085	-14084	-14152	-14153	MG	0.00	0.00	100.00
3630	-16193	-16192	-16258	-16259	MG	0.00	0.00	100.00
3630	-16259	-16258	-16324	-16325	MG	0.00	0.00	100.00
3630	-12113	-12145	-12237	-12236	MG	0.00	0.00	100.00
3630	-12145	-12161	-12238	-12237	MG	0.00	0.00	100.00
3630	-13606	-13607	-13673	-13672	MG	0.00	0.00	100.00
3630	-11268	-11267	-11339	-11340	MG	0.00	0.00	100.00
3630	-11340	-11339	-11405	-11406	MG	0.00	0.00	100.00
3630	-15996	-15995	-16061	-16062	MG	0.00	0.00	100.00
3630	-16062	-16061	-16127	-16128	MG	0.00	0.00	100.00
3630	-11821	-11822	-11885	-11867	MG	0.00	0.00	100.00
3630	-16194	-16193	-16259	-16260	MG	0.00	0.00	100.00
3630	-11688	-11689	-11755	-11754	MG	0.00	0.00	100.00
3630	-16326	-16325	-16391	-16392	MG	0.00	0.00	100.00
3630	-11477	-11478	-11548	-11547	MG	0.00	0.00	100.00
3630	-11546	-11547	-11617	-11616	MG	0.00	0.00	100.00
3630	-12036	-12162	-12114	-12067	MG	0.00	0.00	100.00
3630	-11341	-11342	-11408	-11407	MG	0.00	0.00	100.00
3630	-12240	-12312	-12313	-12241	MG	0.00	0.00	100.00
3630	-12312	-12380	-12381	-12313	MG	0.00	0.00	100.00
3630	-12380	-12446	-12447	-12381	MG	0.00	0.00	100.00
3630	-16195	-16194	-16260	-16261	MG	0.00	0.00	100.00
3630	-11759	-11825	-11826	-11760	MG	0.00	0.00	100.00
3630	-16327	-16326	-16392	-16393	MG	0.00	0.00	100.00
3630	-14219	-14218	-14284	-14285	MG	0.00	0.00	100.00
3630	-14218	-14217	-14283	-14284	MG	0.00	0.00	100.00
3630	-14217	-14216	-14282	-14283	MG	0.00	0.00	100.00
3630	-10993	-10994	-11072	-11071	MG	0.00	0.00	100.00
3630	-10994	-10995	-11073	-11072	MG	0.00	0.00	100.00
3630	-10787	-10788	-10859	-10809	MG	0.00	0.00	100.00
3630	-10858	-10809	-10929	-10893	MG	0.00	0.00	100.00
3630	-12447	-12533	-12534	-12448	MG	0.00	0.00	100.00
3630	-13264	-13333	-13334	-13265	MG	0.00	0.00	100.00
3630	-10702	-10655	-10787	-10786	MG	0.00	0.00	100.00
3630	-13400	-13472	-13473	-13401	MG	0.00	0.00	100.00
3630	-13472	-13542	-13543	-13473	MG	0.00	0.00	100.00
3630	-13542	-13608	-13609	-13543	MG	0.00	0.00	100.00

3630	-13608	-13674	-13675	-13609	MG	0.00	0.00	100.00
3630	-13674	-13740	-13741	-13675	MG	0.00	0.00	100.00
3630	-13740	-13806	-13807	-13741	MG	0.00	0.00	100.00
3630	-11757	-11758	-11824	-11823	MG	0.00	0.00	100.00
3630	-15272	-15273	-15339	-15338	MG	0.00	0.00	100.00
3630	-11823	-11824	-11887	-11886	MG	0.00	0.00	100.00
3630	-14356	-14355	-14421	-14422	MG	0.00	0.00	100.00
3630	-11690	-11691	-11757	-11756	MG	0.00	0.00	100.00
3630	-13473	-13543	-13544	-13474	MG	0.00	0.00	100.00
3630	-13543	-13609	-13610	-13544	MG	0.00	0.00	100.00
3630	-13609	-13675	-13676	-13610	MG	0.00	0.00	100.00
3630	-11549	-11550	-11620	-11619	MG	0.00	0.00	100.00
3630	-14730	-14729	-14795	-14796	MG	0.00	0.00	100.00
3630	-14349	-14348	-14414	-14415	MG	0.00	0.00	100.00
3630	-14348	-14347	-14413	-14414	MG	0.00	0.00	100.00
3630	3502	-10376	-10366	-10296	MG	0.00	0.00	100.00
3630	-10365	-10443	-10444	-10375	MG	0.00	0.00	100.00
3630	-10443	-10504	-10505	-10444	MG	0.00	0.00	100.00
3630	-15279	-15278	-15344	-15345	MG	0.00	0.00	100.00
3630	-15259	-15258	-15324	-15325	MG	0.00	0.00	100.00
3630	-11139	-11140	-11206	-11205	MG	0.00	0.00	100.00
3630	-14419	-14418	-14484	-14485	MG	0.00	0.00	100.00
3630	-13750	-13816	-13817	-13751	MG	0.00	0.00	100.00
3630	-10932	-10997	-10998	-10933	MG	0.00	0.00	100.00
3630	-10789	-10790	-10861	-10860	MG	0.00	0.00	100.00
3630	-14415	-14414	-14480	-14481	MG	0.00	0.00	100.00
3630	-10375	-10444	-10426	-10376	MG	0.00	0.00	100.00
3630	-10444	-10505	-10506	-10426	MG	0.00	0.00	100.00
3630	-10505	-10553	-10541	-10506	MG	0.00	0.00	100.00
3630	-10553	-10706	-10707	-10541	MG	0.00	0.00	100.00
3630	-10706	-10791	-10792	-10707	MG	0.00	0.00	100.00
3630	-10791	-10862	-10844	-10792	MG	0.00	0.00	100.00
3630	-10862	-10933	-10934	-10844	MG	0.00	0.00	100.00
3630	-10933	-10998	-10999	-10934	MG	0.00	0.00	100.00
3630	-10998	-11076	-11077	-10999	MG	0.00	0.00	100.00
3630	-12532	-12610	-12611	-12533	MG	0.00	0.00	100.00
3630	-12610	-12684	-12685	-12611	MG	0.00	0.00	100.00
3630	-12684	-12755	-12756	-12685	MG	0.00	0.00	100.00
3630	-12755	-12825	-12826	-12756	MG	0.00	0.00	100.00
3630	-12825	-12895	-12896	-12826	MG	0.00	0.00	100.00
3630	-12895	-12963	-12977	-12896	MG	0.00	0.00	100.00
3630	-12963	-13056	-13057	-12977	MG	0.00	0.00	100.00
3630	-13056	-13118	-13119	-13057	MG	0.00	0.00	100.00
3630	-13118	-13198	-13199	-13119	MG	0.00	0.00	100.00
3630	-13198	-13264	-13265	-13199	MG	0.00	0.00	100.00
3630	-12533	-12611	-12612	-12534	MG	0.00	0.00	100.00
3630	-12611	-12685	-12686	-12612	MG	0.00	0.00	100.00
3630	-12685	-12756	-12757	-12686	MG	0.00	0.00	100.00
3630	-12756	-12826	-12827	-12757	MG	0.00	0.00	100.00
3630	-12826	-12896	-12897	-12827	MG	0.00	0.00	100.00
3630	-12896	-12977	-12964	-12897	MG	0.00	0.00	100.00
3630	-12977	-13057	-13058	-12964	MG	0.00	0.00	100.00
3630	-13057	-13119	-13120	-13058	MG	0.00	0.00	100.00
3630	-13119	-13199	-13200	-13120	MG	0.00	0.00	100.00
3630	-13199	-13265	-13266	-13200	MG	0.00	0.00	100.00
3630	-11075	-11140	-11141	-11076	MG	0.00	0.00	100.00
3630	-11140	-11206	-11207	-11141	MG	0.00	0.00	100.00
3630	-11206	-11272	-11273	-11207	MG	0.00	0.00	100.00
3630	-11272	-11344	-11345	-11273	MG	0.00	0.00	100.00
3630	-11344	-11410	-11411	-11345	MG	0.00	0.00	100.00
3630	-11410	-11480	-11481	-11411	MG	0.00	0.00	100.00
3630	-11480	-11550	-11551	-11481	MG	0.00	0.00	100.00
3630	-11550	-11620	-11621	-11551	MG	0.00	0.00	100.00
3630	-11620	-11692	-11693	-11621	MG	0.00	0.00	100.00
3630	-11692	-11758	-11759	-11693	MG	0.00	0.00	100.00
3630	-11076	-11141	-11142	-11077	MG	0.00	0.00	100.00
3630	-11141	-11207	-11208	-11142	MG	0.00	0.00	100.00
3630	-11207	-11273	-11274	-11208	MG	0.00	0.00	100.00
3630	-11273	-11345	-11346	-11274	MG	0.00	0.00	100.00
3630	-16331	-16332	-16398	-16397	MG	0.00	0.00	100.00
3630	-15022	-15021	-15087	-15088	MG	0.00	0.00	100.00
3630	-15088	-15087	-15155	-15156	MG	0.00	0.00	100.00
3630	-16329	-16330	-16396	-16395	MG	0.00	0.00	100.00
3630	-16197	-16198	-16264	-16263	MG	0.00	0.00	100.00
3630	-16065	-16066	-16132	-16131	MG	0.00	0.00	100.00
3630	-15933	-15934	-16000	-15999	MG	0.00	0.00	100.00
3630	-10292	-10293	-10364	-10363	MG	0.00	0.00	100.00
3630	-10425	-10442	-10503	-10502	MG	0.00	0.00	100.00
3630	-10617	-10618	-10704	-10703	MG	0.00	0.00	100.00

3630	-10788	-10789	-10860	-10859	MG	0.00	0.00	100.00
3630	-10930	-10931	-10996	-10995	MG	0.00	0.00	100.00
3630	-13262	-13263	-13332	-13331	MG	0.00	0.00	100.00
3630	-13342	-13409	-13410	-13343	MG	0.00	0.00	100.00
3630	-13409	-13481	-13482	-13410	MG	0.00	0.00	100.00
3630	-13736	-13737	-13803	-13802	MG	0.00	0.00	100.00
3630	-13804	-13805	-13871	-13870	MG	0.00	0.00	100.00
3630	-10290	-10291	-10362	-10361	MG	0.00	0.00	100.00
3630	-10423	-10424	-10501	-10500	MG	0.00	0.00	100.00
3630	-10590	-10632	-10655	-10702	MG	0.00	0.00	100.00
3630	-10786	-10787	-10809	-10858	MG	0.00	0.00	100.00
3630	-10893	-10929	-10994	-10993	MG	0.00	0.00	100.00
3630	-15141	-15142	-15206	-15205	MG	0.00	0.00	100.00
3630	-13261	-13262	-13331	-13330	MG	0.00	0.00	100.00
3630	-13329	-13330	-13397	-13396	MG	0.00	0.00	100.00
3630	-14741	-14742	-14808	-14807	MG	0.00	0.00	100.00
3630	-14607	-14608	-14676	-14675	MG	0.00	0.00	100.00
3630	-13802	-13803	-13869	-13868	MG	0.00	0.00	100.00
3630	-13670	-13671	-13737	-13736	MG	0.00	0.00	100.00
3630	-13538	-13539	-13605	-13604	MG	0.00	0.00	100.00
3630	-13396	-13397	-13469	-13468	MG	0.00	0.00	100.00
3630	-13260	-13261	-13330	-13329	MG	0.00	0.00	100.00
3630	-12376	-12377	-12443	-12442	MG	0.00	0.00	100.00
3630	-12236	-12237	-12309	-12308	MG	0.00	0.00	100.00
3630	-12098	-12066	-12145	-12113	MG	0.00	0.00	100.00
3630	-11884	-11867	-12010	-11980	MG	0.00	0.00	100.00
3630	-15338	-15337	-15403	-15404	MG	0.00	0.00	100.00
3630	-15404	-15403	-15469	-15470	MG	0.00	0.00	100.00
3630	-15470	-15469	-15535	-15536	MG	0.00	0.00	100.00
3630	-15536	-15535	-15601	-15602	MG	0.00	0.00	100.00
3630	-15602	-15601	-15667	-15668	MG	0.00	0.00	100.00
3630	-15668	-15667	-15733	-15734	MG	0.00	0.00	100.00
3630	-15734	-15733	-15799	-15800	MG	0.00	0.00	100.00
3630	-15800	-15799	-15865	-15866	MG	0.00	0.00	100.00
3630	-15866	-15865	-15932	-15933	MG	0.00	0.00	100.00
3630	-12308	-12309	-12377	-12376	MG	0.00	0.00	100.00
3630	-15998	-15997	-16063	-16064	MG	0.00	0.00	100.00
3630	-16064	-16063	-16129	-16130	MG	0.00	0.00	100.00
3630	-16130	-16129	-16195	-16196	MG	0.00	0.00	100.00
3630	-16196	-16195	-16261	-16262	MG	0.00	0.00	100.00
3630	-16262	-16261	-16327	-16328	MG	0.00	0.00	100.00
3630	-16328	-16327	-16393	-16394	MG	0.00	0.00	100.00
3630	-13938	-13939	-14009	-14008	MG	0.00	0.00	100.00
3630	-14079	-14064	-14144	-14143	MG	0.00	0.00	100.00
3630	-14209	-14210	-14276	-14275	MG	0.00	0.00	100.00
3630	-15933	-15932	-15998	-15999	MG	0.00	0.00	100.00
3630	-15999	-15998	-16064	-16065	MG	0.00	0.00	100.00
3630	-16065	-16064	-16130	-16131	MG	0.00	0.00	100.00
3630	-16131	-16130	-16196	-16197	MG	0.00	0.00	100.00
3630	-16197	-16196	-16262	-16263	MG	0.00	0.00	100.00
3630	-16263	-16262	-16328	-16329	MG	0.00	0.00	100.00
3630	-16329	-16328	-16394	-16395	MG	0.00	0.00	100.00
3630	-13128	-13085	-13195	-13194	MG	0.00	0.00	100.00
3630	-12973	-12974	-13053	-13052	MG	0.00	0.00	100.00
3630	-12821	-12822	-12892	-12891	MG	0.00	0.00	100.00
3630	-14606	-14605	-14673	-14674	MG	0.00	0.00	100.00
3630	-14674	-14673	-14739	-14740	MG	0.00	0.00	100.00
3630	-14740	-14739	-14805	-14806	MG	0.00	0.00	100.00
3630	-14806	-14805	-14871	-14872	MG	0.00	0.00	100.00
3630	-14872	-14871	-14937	-14938	MG	0.00	0.00	100.00
3630	-14938	-14937	-15003	-15004	MG	0.00	0.00	100.00
3630	-15004	-15003	-15069	-15070	MG	0.00	0.00	100.00
3630	-15070	-15069	-15129	-15140	MG	0.00	0.00	100.00
3630	-15140	-15129	-15203	-15204	MG	0.00	0.00	100.00
3630	-15204	-15203	-15270	-15271	MG	0.00	0.00	100.00
3630	-14607	-14606	-14674	-14675	MG	0.00	0.00	100.00
3630	-14675	-14674	-14740	-14741	MG	0.00	0.00	100.00
3630	-14741	-14740	-14806	-14807	MG	0.00	0.00	100.00
3630	-14807	-14806	-14872	-14873	MG	0.00	0.00	100.00
3630	-14873	-14872	-14938	-14939	MG	0.00	0.00	100.00
3630	-14939	-14938	-15004	-15005	MG	0.00	0.00	100.00
3630	-15005	-15004	-15070	-15071	MG	0.00	0.00	100.00
3630	-15071	-15070	-15140	-15141	MG	0.00	0.00	100.00
3630	-15141	-15140	-15204	-15205	MG	0.00	0.00	100.00
3630	-15205	-15204	-15271	-15272	MG	0.00	0.00	100.00
3630	-13941	-13940	-14010	-14011	MG	0.00	0.00	100.00
3630	-11822	-11823	-11886	-11885	MG	0.00	0.00	100.00
3630	-14011	-14010	-14080	-14065	MG	0.00	0.00	100.00
3630	-14081	-14065	-14146	-14147	MG	0.00	0.00	100.00

3630	-14065	-14080	-14145	-14146	MG	0.00	0.00	100.00
3630	-14147	-14146	-14212	-14213	MG	0.00	0.00	100.00
3630	-14146	-14145	-14211	-14212	MG	0.00	0.00	100.00
3630	-14213	-14212	-14278	-14279	MG	0.00	0.00	100.00
3630	-14212	-14211	-14277	-14278	MG	0.00	0.00	100.00
3630	-14279	-14278	-14344	-14345	MG	0.00	0.00	100.00
3630	-14278	-14277	-14343	-14344	MG	0.00	0.00	100.00
3630	-14345	-14344	-14410	-14411	MG	0.00	0.00	100.00
3630	-14344	-14343	-14409	-14410	MG	0.00	0.00	100.00
3630	-14411	-14410	-14476	-14477	MG	0.00	0.00	100.00
3630	-14410	-14409	-14475	-14476	MG	0.00	0.00	100.00
3630	-14477	-14476	-14542	-14543	MG	0.00	0.00	100.00
3630	-14476	-14475	-14541	-14542	MG	0.00	0.00	100.00
3630	-14543	-14542	-14612	-14613	MG	0.00	0.00	100.00
3630	-14542	-14541	-14611	-14612	MG	0.00	0.00	100.00
3630	-10995	-10996	-11074	-11073	MG	0.00	0.00	100.00
3630	-10996	-10997	-11075	-11074	MG	0.00	0.00	100.00
3630	-14416	-14415	-14481	-14482	MG	0.00	0.00	100.00
3630	-15475	-15474	-15540	-15541	MG	0.00	0.00	100.00
3630	-15541	-15540	-15606	-15607	MG	0.00	0.00	100.00
3630	-15607	-15606	-15672	-15673	MG	0.00	0.00	100.00
3630	-15673	-15672	-15738	-15739	MG	0.00	0.00	100.00
3630	-15739	-15738	-15804	-15805	MG	0.00	0.00	100.00
3630	-15805	-15804	-15870	-15871	MG	0.00	0.00	100.00
3630	-15871	-15870	-15937	-15938	MG	0.00	0.00	100.00
3630	-15278	-15277	-15343	-15344	MG	0.00	0.00	100.00
3630	-15344	-15343	-15409	-15410	MG	0.00	0.00	100.00
3630	-15410	-15409	-15475	-15476	MG	0.00	0.00	100.00
3630	-15476	-15475	-15541	-15542	MG	0.00	0.00	100.00
3630	-15542	-15541	-15607	-15608	MG	0.00	0.00	100.00
3630	-15608	-15607	-15673	-15674	MG	0.00	0.00	100.00
3630	-15674	-15673	-15739	-15740	MG	0.00	0.00	100.00
3630	-15740	-15739	-15805	-15806	MG	0.00	0.00	100.00
3630	-15806	-15805	-15871	-15872	MG	0.00	0.00	100.00
3630	-15872	-15871	-15938	-15939	MG	0.00	0.00	100.00
3630	-15938	-15937	-16003	-16004	MG	0.00	0.00	100.00
3630	-16004	-16003	-16069	-16070	MG	0.00	0.00	100.00
3630	-16070	-16069	-16135	-16136	MG	0.00	0.00	100.00
3630	-16136	-16135	-16201	-16202	MG	0.00	0.00	100.00
3630	-16202	-16201	-16267	-16268	MG	0.00	0.00	100.00
3630	-16268	-16267	-16333	-16334	MG	0.00	0.00	100.00
3630	-16334	-16333	-16399	-16400	MG	0.00	0.00	100.00
3630	-13395	-13394	-13466	-13467	MG	0.00	0.00	100.00
3630	-13467	-13466	-13536	-13537	MG	0.00	0.00	100.00
3630	-13537	-13536	-13602	-13603	MG	0.00	0.00	100.00
3630	-15939	-15938	-16004	-16005	MG	0.00	0.00	100.00
3630	-16005	-16004	-16070	-16071	MG	0.00	0.00	100.00
3630	-16071	-16070	-16136	-16137	MG	0.00	0.00	100.00
3630	-16137	-16136	-16202	-16203	MG	0.00	0.00	100.00
3630	-16203	-16202	-16268	-16269	MG	0.00	0.00	100.00
3630	-16269	-16268	-16334	-16335	MG	0.00	0.00	100.00
3630	-16335	-16334	-16400	-16401	MG	0.00	0.00	100.00
3630	-15721	-15720	-15786	-15787	MG	0.00	0.00	100.00
3630	-15787	-15786	-15852	-15853	MG	0.00	0.00	100.00
3630	-13538	-13537	-13603	-13604	MG	0.00	0.00	100.00
3630	-14612	-14611	-14679	-14680	MG	0.00	0.00	100.00
3630	-14680	-14679	-14745	-14746	MG	0.00	0.00	100.00
3630	-14746	-14745	-14811	-14812	MG	0.00	0.00	100.00
3630	-14812	-14811	-14877	-14878	MG	0.00	0.00	100.00
3630	-14878	-14877	-14943	-14944	MG	0.00	0.00	100.00
3630	-14944	-14943	-15009	-15010	MG	0.00	0.00	100.00
3630	-15010	-15009	-15075	-15076	MG	0.00	0.00	100.00
3630	-15076	-15075	-15145	-15146	MG	0.00	0.00	100.00
3630	-15146	-15145	-15209	-15210	MG	0.00	0.00	100.00
3630	-15210	-15209	-15276	-15277	MG	0.00	0.00	100.00
3630	-14613	-14612	-14680	-14681	MG	0.00	0.00	100.00
3630	-14681	-14680	-14746	-14747	MG	0.00	0.00	100.00
3630	-14747	-14746	-14812	-14813	MG	0.00	0.00	100.00
3630	-14813	-14812	-14878	-14879	MG	0.00	0.00	100.00
3630	-14879	-14878	-14944	-14945	MG	0.00	0.00	100.00
3630	-14945	-14944	-15010	-15011	MG	0.00	0.00	100.00
3630	-15011	-15010	-15076	-15077	MG	0.00	0.00	100.00
3630	-15077	-15076	-15146	-15147	MG	0.00	0.00	100.00
3630	-15147	-15146	-15210	-15211	MG	0.00	0.00	100.00
3630	-15211	-15210	-15277	-15278	MG	0.00	0.00	100.00
3630	-13398	-13399	-13471	-13470	MG	0.00	0.00	100.00
3630	-13540	-13541	-13607	-13606	MG	0.00	0.00	100.00
3630	-13672	-13673	-13739	-13738	MG	0.00	0.00	100.00
3630	-12376	-12375	-12441	-12442	MG	0.00	0.00	100.00

3630	-12442	-12441	-12528	-12529	MG	0.00	0.00	100.00
3630	-12528	-12547	-12604	-12605	MG	0.00	0.00	100.00
3630	-15658	-15657	-15723	-15724	MG	0.00	0.00	100.00
3630	-12679	-12678	-12749	-12750	MG	0.00	0.00	100.00
3630	-15790	-15789	-15855	-15856	MG	0.00	0.00	100.00
3630	-12820	-12819	-12889	-12890	MG	0.00	0.00	100.00
3630	-15005	-15006	-15072	-15071	MG	0.00	0.00	100.00
3630	-14873	-14874	-14940	-14939	MG	0.00	0.00	100.00
3630	-15395	-15394	-15460	-15461	MG	0.00	0.00	100.00
3630	-13116	-13127	-13192	-13193	MG	0.00	0.00	100.00
3630	-13193	-13192	-13258	-13259	MG	0.00	0.00	100.00
3630	-12529	-12528	-12605	-12606	MG	0.00	0.00	100.00
3630	-12606	-12605	-12679	-12680	MG	0.00	0.00	100.00
3630	-12680	-12679	-12750	-12751	MG	0.00	0.00	100.00
3630	-12751	-12750	-12820	-12821	MG	0.00	0.00	100.00
3630	-15856	-15923	-15924	-15857	MG	0.00	0.00	100.00
3630	-15264	-15263	-15329	-15330	MG	0.00	0.00	100.00
3630	-15330	-15329	-15395	-15396	MG	0.00	0.00	100.00
3630	-15396	-15395	-15461	-15462	MG	0.00	0.00	100.00
3630	-13128	-13116	-13193	-13194	MG	0.00	0.00	100.00
3630	-15528	-15527	-15593	-15594	MG	0.00	0.00	100.00
3630	-15594	-15593	-15659	-15660	MG	0.00	0.00	100.00
3630	-11135	-11134	-11200	-11201	MG	0.00	0.00	100.00
3630	-15726	-15725	-15791	-15792	MG	0.00	0.00	100.00
3630	-11267	-11266	-11338	-11339	MG	0.00	0.00	100.00
3630	-11339	-11338	-11404	-11405	MG	0.00	0.00	100.00
3630	-15265	-15264	-15330	-15331	MG	0.00	0.00	100.00
3630	-15331	-15330	-15396	-15397	MG	0.00	0.00	100.00
3630	-15932	-15931	-15997	-15998	MG	0.00	0.00	100.00
3630	-11615	-11614	-11686	-11687	MG	0.00	0.00	100.00
3630	-11687	-11686	-11752	-11753	MG	0.00	0.00	100.00
3630	-11071	-11070	-11135	-11136	MG	0.00	0.00	100.00
3630	-11136	-11135	-11201	-11202	MG	0.00	0.00	100.00
3630	-11202	-11201	-11267	-11268	MG	0.00	0.00	100.00
3630	-15793	-15792	-15858	-15859	MG	0.00	0.00	100.00
3630	-15859	-15858	-15925	-15926	MG	0.00	0.00	100.00
3630	-11406	-11405	-11475	-11476	MG	0.00	0.00	100.00
3630	-11476	-11475	-11545	-11546	MG	0.00	0.00	100.00
3630	-11546	-11545	-11615	-11616	MG	0.00	0.00	100.00
3630	-11616	-11615	-11687	-11688	MG	0.00	0.00	100.00
3630	-11688	-11687	-11753	-11754	MG	0.00	0.00	100.00
3630	-11824	-11887	-11888	-11825	MG	0.00	0.00	100.00
3630	-11887	-11982	-11939	-11888	MG	0.00	0.00	100.00
3630	-11982	-12036	-12067	-11939	MG	0.00	0.00	100.00
3630	-10494	-10610	-10552	-10495	MG	0.00	0.00	100.00
3630	-12162	-12240	-12241	-12114	MG	0.00	0.00	100.00
3630	-15267	-15266	-15332	-15333	MG	0.00	0.00	100.00
3630	-15333	-15332	-15398	-15399	MG	0.00	0.00	100.00
3630	-15399	-15398	-15464	-15465	MG	0.00	0.00	100.00
3630	-12446	-12532	-12533	-12447	MG	0.00	0.00	100.00
3630	-15531	-15530	-15596	-15597	MG	0.00	0.00	100.00
3630	-11825	-11888	-11898	-11826	MG	0.00	0.00	100.00
3630	-11888	-11939	-11940	-11898	MG	0.00	0.00	100.00
3630	-11939	-12067	-12053	-11940	MG	0.00	0.00	100.00
3630	-12067	-12114	-12163	-12053	MG	0.00	0.00	100.00
3630	-12114	-12241	-12242	-12163	MG	0.00	0.00	100.00
3630	-12241	-12313	-12314	-12242	MG	0.00	0.00	100.00
3630	-12313	-12381	-12382	-12314	MG	0.00	0.00	100.00
3630	-12381	-12447	-12448	-12382	MG	0.00	0.00	100.00
3630	-15466	-15465	-15531	-15532	MG	0.00	0.00	100.00
3630	-15532	-15531	-15597	-15598	MG	0.00	0.00	100.00
3630	-13333	-13400	-13401	-13334	MG	0.00	0.00	100.00
3630	-15664	-15663	-15729	-15730	MG	0.00	0.00	100.00
3630	-15730	-15729	-15795	-15796	MG	0.00	0.00	100.00
3630	-15796	-15795	-15861	-15862	MG	0.00	0.00	100.00
3630	-15862	-15861	-15928	-15929	MG	0.00	0.00	100.00
3630	-15269	-15268	-15334	-15335	MG	0.00	0.00	100.00
3630	-15335	-15334	-15400	-15401	MG	0.00	0.00	100.00
3630	-13806	-13872	-13873	-13807	MG	0.00	0.00	100.00
3630	-13872	-13940	-13941	-13873	MG	0.00	0.00	100.00
3630	-13265	-13334	-13335	-13266	MG	0.00	0.00	100.00
3630	-13334	-13401	-13402	-13335	MG	0.00	0.00	100.00
3630	-13401	-13473	-13474	-13402	MG	0.00	0.00	100.00
3630	-15731	-15730	-15796	-15797	MG	0.00	0.00	100.00
3630	-15797	-15796	-15862	-15863	MG	0.00	0.00	100.00
3630	-15863	-15862	-15929	-15930	MG	0.00	0.00	100.00
3630	-13675	-13741	-13742	-13676	MG	0.00	0.00	100.00
3630	-13741	-13807	-13808	-13742	MG	0.00	0.00	100.00
3630	-13807	-13873	-13874	-13808	MG	0.00	0.00	100.00

3630	-13873	-13941	-13942	-13874	MG	0.00	0.00	100.00
3630	-10294	-10365	-10375	-10295	MG	0.00	0.00	100.00
3630	-15600	-15599	-15665	-15666	MG	0.00	0.00	100.00
3630	-15666	-15665	-15731	-15732	MG	0.00	0.00	100.00
3630	-10504	-10591	-10553	-10505	MG	0.00	0.00	100.00
3630	-10591	-10705	-10706	-10553	MG	0.00	0.00	100.00
3630	-10705	-10790	-10791	-10706	MG	0.00	0.00	100.00
3630	-10790	-10861	-10862	-10791	MG	0.00	0.00	100.00
3630	-10861	-10932	-10933	-10862	MG	0.00	0.00	100.00
3630	-16330	-16331	-16397	-16396	MG	0.00	0.00	100.00
3630	-10997	-11075	-11076	-10998	MG	0.00	0.00	100.00
3630	-10295	-10375	-10376	3502	MG	0.00	0.00	100.00
3630	-16198	-16199	-16265	-16264	MG	0.00	0.00	100.00
3630	-15345	-15344	-15410	-15411	MG	0.00	0.00	100.00
3630	-15411	-15410	-15476	-15477	MG	0.00	0.00	100.00
3630	-15477	-15476	-15542	-15543	MG	0.00	0.00	100.00
3630	-15543	-15542	-15608	-15609	MG	0.00	0.00	100.00
3630	-15609	-15608	-15674	-15675	MG	0.00	0.00	100.00
3630	-15675	-15674	-15740	-15741	MG	0.00	0.00	100.00
3630	-15741	-15740	-15806	-15807	MG	0.00	0.00	100.00
3630	-15807	-15806	-15872	-15873	MG	0.00	0.00	100.00
3630	-15873	-15872	-15939	-15940	MG	0.00	0.00	100.00
3630	-15280	-15279	-15345	-15346	MG	0.00	0.00	100.00
3630	-15346	-15345	-15411	-15412	MG	0.00	0.00	100.00
3630	-15412	-15411	-15477	-15478	MG	0.00	0.00	100.00
3630	-15478	-15477	-15543	-15544	MG	0.00	0.00	100.00
3630	-15544	-15543	-15609	-15610	MG	0.00	0.00	100.00
3630	-15610	-15609	-15675	-15676	MG	0.00	0.00	100.00
3630	-15676	-15675	-15741	-15742	MG	0.00	0.00	100.00
3630	-15742	-15741	-15807	-15808	MG	0.00	0.00	100.00
3630	-15808	-15807	-15873	-15874	MG	0.00	0.00	100.00
3630	-15874	-15873	-15940	-15941	MG	0.00	0.00	100.00
3630	-15281	-15280	-15346	-15347	MG	0.00	0.00	100.00
3630	-15347	-15346	-15412	-15413	MG	0.00	0.00	100.00
3630	-15413	-15412	-15478	-15479	MG	0.00	0.00	100.00
3630	-15479	-15478	-15544	-15545	MG	0.00	0.00	100.00
3630	-15545	-15544	-15610	-15611	MG	0.00	0.00	100.00
3630	-15611	-15610	-15676	-15677	MG	0.00	0.00	100.00
3630	-15677	-15676	-15742	-15743	MG	0.00	0.00	100.00
3630	-15743	-15742	-15808	-15809	MG	0.00	0.00	100.00
3630	-15809	-15808	-15874	-15875	MG	0.00	0.00	100.00
3630	-15875	-15874	-15941	-15942	MG	0.00	0.00	100.00
3630	-15282	-15281	-15347	-15348	MG	0.00	0.00	100.00
3630	-15348	-15347	-15413	-15414	MG	0.00	0.00	100.00
3630	-15414	-15413	-15479	-15480	MG	0.00	0.00	100.00
3630	-15480	-15479	-15545	-15546	MG	0.00	0.00	100.00
3630	-15546	-15545	-15611	-15612	MG	0.00	0.00	100.00
3630	-15612	-15611	-15677	-15678	MG	0.00	0.00	100.00
3630	-15678	-15677	-15743	-15744	MG	0.00	0.00	100.00
3630	-15744	-15743	-15809	-15810	MG	0.00	0.00	100.00
3630	-15810	-15809	-15875	-15876	MG	0.00	0.00	100.00
3630	-15876	-15875	-15942	-15943	MG	0.00	0.00	100.00
3630	-15283	-15282	-15348	-15349	MG	0.00	0.00	100.00
3630	-15349	-15348	-15414	-15415	MG	0.00	0.00	100.00
3630	-15415	-15414	-15480	-15481	MG	0.00	0.00	100.00
3630	-15481	-15480	-15546	-15547	MG	0.00	0.00	100.00
3630	-15547	-15546	-15612	-15613	MG	0.00	0.00	100.00
3630	-15613	-15612	-15678	-15679	MG	0.00	0.00	100.00
3630	-15679	-15678	-15744	-15745	MG	0.00	0.00	100.00
3630	-15745	-15744	-15810	-15811	MG	0.00	0.00	100.00
3630	-15811	-15810	-15876	-15877	MG	0.00	0.00	100.00
3630	-15877	-15876	-15943	-15944	MG	0.00	0.00	100.00
3630	-15284	-15283	-15349	-15350	MG	0.00	0.00	100.00
3630	-15350	-15349	-15415	-15416	MG	0.00	0.00	100.00
3630	-15416	-15415	-15481	-15482	MG	0.00	0.00	100.00
3630	-15482	-15481	-15547	-15548	MG	0.00	0.00	100.00
3630	-15548	-15547	-15613	-15614	MG	0.00	0.00	100.00
3630	-15614	-15613	-15679	-15680	MG	0.00	0.00	100.00
3630	-15680	-15679	-15745	-15746	MG	0.00	0.00	100.00
3630	-15746	-15745	-15811	-15812	MG	0.00	0.00	100.00
3630	-15812	-15811	-15877	-15878	MG	0.00	0.00	100.00
3630	-15878	-15877	-15944	-15945	MG	0.00	0.00	100.00
3630	-15285	-15284	-15350	-15351	MG	0.00	0.00	100.00
3630	-15351	-15350	-15416	-15417	MG	0.00	0.00	100.00
3630	-15417	-15416	-15482	-15483	MG	0.00	0.00	100.00
3630	-15483	-15482	-15548	-15549	MG	0.00	0.00	100.00
3630	-15549	-15548	-15614	-15615	MG	0.00	0.00	100.00
3630	-15615	-15614	-15680	-15681	MG	0.00	0.00	100.00
3630	-15681	-15680	-15746	-15747	MG	0.00	0.00	100.00



3630	-15747	-15746	-15812	-15813	MG	0.00	0.00	100.00
3630	-15813	-15812	-15878	-15879	MG	0.00	0.00	100.00
3630	-15879	-15878	-15945	-15946	MG	0.00	0.00	100.00
3630	-15286	-15285	-15351	-15352	MG	0.00	0.00	100.00
3630	-15352	-15351	-15417	-15418	MG	0.00	0.00	100.00
3630	-15418	-15417	-15483	-15484	MG	0.00	0.00	100.00
3630	-15484	-15483	-15549	-15550	MG	0.00	0.00	100.00
3630	-15550	-15549	-15615	-15616	MG	0.00	0.00	100.00
3630	-15616	-15615	-15681	-15682	MG	0.00	0.00	100.00
3630	-15682	-15681	-15747	-15748	MG	0.00	0.00	100.00
3630	-15748	-15747	-15813	-15814	MG	0.00	0.00	100.00
3630	-15814	-15813	-15879	-15880	MG	0.00	0.00	100.00
3630	-15880	-15879	-15946	-15947	MG	0.00	0.00	100.00
3630	-15287	-15286	-15352	-15353	MG	0.00	0.00	100.00
3630	-15353	-15352	-15418	-15419	MG	0.00	0.00	100.00
3630	-15419	-15418	-15484	-15485	MG	0.00	0.00	100.00
3630	-15485	-15484	-15550	-15551	MG	0.00	0.00	100.00
3630	-15551	-15550	-15616	-15617	MG	0.00	0.00	100.00
3630	-15617	-15616	-15682	-15683	MG	0.00	0.00	100.00
3630	-15683	-15682	-15748	-15749	MG	0.00	0.00	100.00
3630	-15749	-15748	-15814	-15815	MG	0.00	0.00	100.00
3630	-15815	-15814	-15880	-15881	MG	0.00	0.00	100.00
3630	-15881	-15880	-15947	-15948	MG	0.00	0.00	100.00
3630	-15288	-15287	-15353	-15354	MG	0.00	0.00	100.00
3630	-15354	-15353	-15419	-15420	MG	0.00	0.00	100.00
3630	-15420	-15419	-15485	-15486	MG	0.00	0.00	100.00
3630	-15486	-15485	-15551	-15552	MG	0.00	0.00	100.00
3630	-15552	-15551	-15617	-15618	MG	0.00	0.00	100.00
3630	-15618	-15617	-15683	-15684	MG	0.00	0.00	100.00
3630	-15684	-15683	-15749	-15750	MG	0.00	0.00	100.00
3630	-15750	-15749	-15815	-15816	MG	0.00	0.00	100.00
3630	-15816	-15815	-15881	-15882	MG	0.00	0.00	100.00
3630	-15882	-15881	-15948	-15949	MG	0.00	0.00	100.00
3630	-15289	-15288	-15354	-15355	MG	0.00	0.00	100.00
3630	-15355	-15354	-15420	-15421	MG	0.00	0.00	100.00
3630	-15421	-15420	-15486	-15487	MG	0.00	0.00	100.00
3630	-15487	-15486	-15552	-15553	MG	0.00	0.00	100.00
3630	-15553	-15552	-15618	-15619	MG	0.00	0.00	100.00
3630	-15619	-15618	-15684	-15685	MG	0.00	0.00	100.00
3630	-15685	-15684	-15750	-15751	MG	0.00	0.00	100.00
3630	-15751	-15750	-15816	-15817	MG	0.00	0.00	100.00
3630	-15817	-15816	-15882	-15883	MG	0.00	0.00	100.00
3630	-15883	-15882	-15949	-15950	MG	0.00	0.00	100.00
3630	-15290	-15289	-15355	-15356	MG	0.00	0.00	100.00
3630	-15356	-15355	-15421	-15422	MG	0.00	0.00	100.00
3630	-15422	-15421	-15487	-15488	MG	0.00	0.00	100.00
3630	-15488	-15487	-15553	-15554	MG	0.00	0.00	100.00
3630	-15554	-15553	-15619	-15620	MG	0.00	0.00	100.00
3630	-15620	-15619	-15685	-15686	MG	0.00	0.00	100.00
3630	-15686	-15685	-15751	-15752	MG	0.00	0.00	100.00
3630	-15752	-15751	-15817	-15818	MG	0.00	0.00	100.00
3630	-15818	-15817	-15883	-15884	MG	0.00	0.00	100.00
3630	-15884	-15883	-15950	-15951	MG	0.00	0.00	100.00
3630	-15940	-15939	-16005	-16006	MG	0.00	0.00	100.00
3630	-16006	-16005	-16071	-16072	MG	0.00	0.00	100.00
3630	-16072	-16071	-16137	-16138	MG	0.00	0.00	100.00
3630	-16138	-16137	-16203	-16204	MG	0.00	0.00	100.00
3630	-16204	-16203	-16269	-16270	MG	0.00	0.00	100.00
3630	-16270	-16269	-16335	-16336	MG	0.00	0.00	100.00
3630	-16336	-16335	-16401	-16402	MG	0.00	0.00	100.00
3630	-10361	-10362	-10424	-10423	MG	0.00	0.00	100.00
3630	-10362	-10363	-10425	-10424	MG	0.00	0.00	100.00
3630	-14012	-14011	-14065	-14081	MG	0.00	0.00	100.00
3630	-15941	-15940	-16006	-16007	MG	0.00	0.00	100.00
3630	-16007	-16006	-16072	-16073	MG	0.00	0.00	100.00
3630	-16073	-16072	-16138	-16139	MG	0.00	0.00	100.00
3630	-16139	-16138	-16204	-16205	MG	0.00	0.00	100.00
3630	-16205	-16204	-16270	-16271	MG	0.00	0.00	100.00
3630	-16271	-16270	-16336	-16337	MG	0.00	0.00	100.00
3630	-16337	-16336	-16402	-16403	MG	0.00	0.00	100.00
3630	-11740	-11806	-11807	-11741	MG	0.00	0.00	100.00
3630	-10290	-10289	-10360	-10361	MG	0.00	0.00	100.00
3630	-11758	-11824	-11825	-11759	MG	0.00	0.00	100.00
3630	-15942	-15941	-16007	-16008	MG	0.00	0.00	100.00
3630	-16008	-16007	-16073	-16074	MG	0.00	0.00	100.00
3630	-16074	-16073	-16139	-16140	MG	0.00	0.00	100.00
3630	-16140	-16139	-16205	-16206	MG	0.00	0.00	100.00
3630	-16206	-16205	-16271	-16272	MG	0.00	0.00	100.00
3630	-16272	-16271	-16337	-16338	MG	0.00	0.00	100.00

3630	-16338	-16337	-16403	-16404	MG	0.00	0.00	100.00
3630	-15277	-15276	-15342	-15343	MG	0.00	0.00	100.00
3630	-15343	-15342	-15408	-15409	MG	0.00	0.00	100.00
3630	-15409	-15408	-15474	-15475	MG	0.00	0.00	100.00
3630	-15943	-15942	-16008	-16009	MG	0.00	0.00	100.00
3630	-16009	-16008	-16074	-16075	MG	0.00	0.00	100.00
3630	-16075	-16074	-16140	-16141	MG	0.00	0.00	100.00
3630	-16141	-16140	-16206	-16207	MG	0.00	0.00	100.00
3630	-16207	-16206	-16272	-16273	MG	0.00	0.00	100.00
3630	-16273	-16272	-16338	-16339	MG	0.00	0.00	100.00
3630	-16339	-16338	-16404	-16405	MG	0.00	0.00	100.00
3630	-10441	-10440	-10498	-10499	MG	0.00	0.00	100.00
3630	-10500	-10499	-10589	-10590	MG	0.00	0.00	100.00
3630	-10499	-10498	-10588	-10589	MG	0.00	0.00	100.00
3630	-15944	-15943	-16009	-16010	MG	0.00	0.00	100.00
3630	-16010	-16009	-16075	-16076	MG	0.00	0.00	100.00
3630	-16076	-16075	-16141	-16142	MG	0.00	0.00	100.00
3630	-16142	-16141	-16207	-16208	MG	0.00	0.00	100.00
3630	-16208	-16207	-16273	-16274	MG	0.00	0.00	100.00
3630	-16274	-16273	-16339	-16340	MG	0.00	0.00	100.00
3630	-16340	-16339	-16405	-16406	MG	0.00	0.00	100.00
3630	-10843	-10842	-10927	-10928	MG	0.00	0.00	100.00
3630	-10893	-10928	-10992	-10993	MG	0.00	0.00	100.00
3630	-10928	-10927	-10991	-10992	MG	0.00	0.00	100.00
3630	-12525	-12598	-12599	-12514	MG	0.00	0.00	100.00
3630	-16011	-16010	-16076	-16077	MG	0.00	0.00	100.00
3630	-16077	-16076	-16142	-16143	MG	0.00	0.00	100.00
3630	-16143	-16142	-16208	-16209	MG	0.00	0.00	100.00
3630	-16209	-16208	-16274	-16275	MG	0.00	0.00	100.00
3630	-16275	-16274	-16340	-16341	MG	0.00	0.00	100.00
3630	-16341	-16340	-16406	-16407	MG	0.00	0.00	100.00
3630	-13603	-13602	-13668	-13669	MG	0.00	0.00	100.00
3630	-13669	-13668	-13734	-13735	MG	0.00	0.00	100.00
3630	-13735	-13734	-13800	-13801	MG	0.00	0.00	100.00
3630	-15946	-15945	-16011	-16012	MG	0.00	0.00	100.00
3630	-16012	-16011	-16077	-16078	MG	0.00	0.00	100.00
3630	-16078	-16077	-16143	-16144	MG	0.00	0.00	100.00
3630	-16144	-16143	-16209	-16210	MG	0.00	0.00	100.00
3630	-16210	-16209	-16275	-16276	MG	0.00	0.00	100.00
3630	-16276	-16275	-16341	-16342	MG	0.00	0.00	100.00
3630	-16342	-16341	-16407	-16408	MG	0.00	0.00	100.00
3630	-13604	-13603	-13669	-13670	MG	0.00	0.00	100.00
3630	-13670	-13669	-13735	-13736	MG	0.00	0.00	100.00
3630	-13736	-13735	-13801	-13802	MG	0.00	0.00	100.00
3630	-15947	-15946	-16012	-16013	MG	0.00	0.00	100.00
3630	-16013	-16012	-16078	-16079	MG	0.00	0.00	100.00
3630	-16079	-16078	-16144	-16145	MG	0.00	0.00	100.00
3630	-16145	-16144	-16210	-16211	MG	0.00	0.00	100.00
3630	-16211	-16210	-16276	-16277	MG	0.00	0.00	100.00
3630	-16277	-16276	-16342	-16343	MG	0.00	0.00	100.00
3630	-16343	-16342	-16408	-16409	MG	0.00	0.00	100.00
3630	-12119	-12160	-12234	-12235	MG	0.00	0.00	100.00
3630	-12235	-12234	-12306	-12307	MG	0.00	0.00	100.00
3630	-12307	-12306	-12374	-12375	MG	0.00	0.00	100.00
3630	-15948	-15947	-16013	-16014	MG	0.00	0.00	100.00
3630	-16014	-16013	-16079	-16080	MG	0.00	0.00	100.00
3630	-16080	-16079	-16145	-16146	MG	0.00	0.00	100.00
3630	-16146	-16145	-16211	-16212	MG	0.00	0.00	100.00
3630	-16212	-16211	-16277	-16278	MG	0.00	0.00	100.00
3630	-16278	-16277	-16343	-16344	MG	0.00	0.00	100.00
3630	-16344	-16343	-16409	-16410	MG	0.00	0.00	100.00
3630	-12113	-12119	-12235	-12236	MG	0.00	0.00	100.00
3630	-12236	-12235	-12307	-12308	MG	0.00	0.00	100.00
3630	-12308	-12307	-12375	-12376	MG	0.00	0.00	100.00
3630	-15949	-15948	-16014	-16015	MG	0.00	0.00	100.00
3630	-16015	-16014	-16080	-16081	MG	0.00	0.00	100.00
3630	-16081	-16080	-16146	-16147	MG	0.00	0.00	100.00
3630	-16147	-16146	-16212	-16213	MG	0.00	0.00	100.00
3630	-16213	-16212	-16278	-16279	MG	0.00	0.00	100.00
3630	-16279	-16278	-16344	-16345	MG	0.00	0.00	100.00
3630	-16345	-16344	-16410	-16411	MG	0.00	0.00	100.00
3630	-12890	-12889	-12972	-12962	MG	0.00	0.00	100.00
3630	-12962	-12972	-13050	-13051	MG	0.00	0.00	100.00
3630	-13051	-13050	-13127	-13116	MG	0.00	0.00	100.00
3630	-15950	-15949	-16015	-16016	MG	0.00	0.00	100.00
3630	-16016	-16015	-16081	-16082	MG	0.00	0.00	100.00
3630	-16082	-16081	-16147	-16148	MG	0.00	0.00	100.00
3630	-16148	-16147	-16213	-16214	MG	0.00	0.00	100.00
3630	-16214	-16213	-16279	-16280	MG	0.00	0.00	100.00

3630	-16280	-16279	-16345	-16346	MG	0.00	0.00	100.00
3630	-16346	-16345	-16411	-16412	MG	0.00	0.00	100.00
3630	-12891	-12890	-12962	-12973	MG	0.00	0.00	100.00
3630	-12973	-12962	-13051	-13052	MG	0.00	0.00	100.00
3630	-13052	-13051	-13116	-13128	MG	0.00	0.00	100.00
3630	-15951	-15950	-16016	-16017	MG	0.00	0.00	100.00
3630	-16017	-16016	-16082	-16083	MG	0.00	0.00	100.00
3630	-16083	-16082	-16148	-16149	MG	0.00	0.00	100.00
3630	-16149	-16148	-16214	-16215	MG	0.00	0.00	100.00
3630	-16215	-16214	-16280	-16281	MG	0.00	0.00	100.00
3630	-16281	-16280	-16346	-16347	MG	0.00	0.00	100.00
3630	-16347	-16346	-16412	-16413	MG	0.00	0.00	100.00
3630	-11405	-11404	-11474	-11475	MG	0.00	0.00	100.00
3630	-11475	-11474	-11544	-11545	MG	0.00	0.00	100.00
3630	-11545	-11544	-11614	-11615	MG	0.00	0.00	100.00
3630	-14614	-14613	-14681	-14682	MG	0.00	0.00	100.00
3630	-14682	-14681	-14747	-14748	MG	0.00	0.00	100.00
3630	-14748	-14747	-14813	-14814	MG	0.00	0.00	100.00
3630	-14814	-14813	-14879	-14880	MG	0.00	0.00	100.00
3630	-14880	-14879	-14945	-14946	MG	0.00	0.00	100.00
3630	-14946	-14945	-15011	-15012	MG	0.00	0.00	100.00
3630	-15012	-15011	-15077	-15078	MG	0.00	0.00	100.00
3630	-15078	-15077	-15147	-15130	MG	0.00	0.00	100.00
3630	-15130	-15147	-15211	-15212	MG	0.00	0.00	100.00
3630	-15212	-15211	-15278	-15279	MG	0.00	0.00	100.00
3630	-14615	-14614	-14682	-14683	MG	0.00	0.00	100.00
3630	-14683	-14682	-14748	-14749	MG	0.00	0.00	100.00
3630	-14749	-14748	-14814	-14815	MG	0.00	0.00	100.00
3630	-14815	-14814	-14880	-14881	MG	0.00	0.00	100.00
3630	-14881	-14880	-14946	-14947	MG	0.00	0.00	100.00
3630	-14947	-14946	-15012	-15013	MG	0.00	0.00	100.00
3630	-15013	-15012	-15078	-15079	MG	0.00	0.00	100.00
3630	-15079	-15078	-15130	-15148	MG	0.00	0.00	100.00
3630	-15148	-15130	-15212	-15213	MG	0.00	0.00	100.00
3630	-15213	-15212	-15279	-15280	MG	0.00	0.00	100.00
3630	-14616	-14615	-14683	-14684	MG	0.00	0.00	100.00
3630	-14684	-14683	-14749	-14750	MG	0.00	0.00	100.00
3630	-14750	-14749	-14815	-14816	MG	0.00	0.00	100.00
3630	-14816	-14815	-14881	-14882	MG	0.00	0.00	100.00
3630	-14882	-14881	-14947	-14948	MG	0.00	0.00	100.00
3630	-14948	-14947	-15013	-15014	MG	0.00	0.00	100.00
3630	-15014	-15013	-15079	-15080	MG	0.00	0.00	100.00
3630	-15080	-15079	-15148	-15149	MG	0.00	0.00	100.00
3630	-15149	-15148	-15213	-15214	MG	0.00	0.00	100.00
3630	-15214	-15213	-15280	-15281	MG	0.00	0.00	100.00
3630	-14617	-14616	-14684	-14685	MG	0.00	0.00	100.00
3630	-14685	-14684	-14750	-14751	MG	0.00	0.00	100.00
3630	-14751	-14750	-14816	-14817	MG	0.00	0.00	100.00
3630	-14817	-14816	-14882	-14883	MG	0.00	0.00	100.00
3630	-14883	-14882	-14948	-14949	MG	0.00	0.00	100.00
3630	-14949	-14948	-15014	-15015	MG	0.00	0.00	100.00
3630	-15015	-15014	-15080	-15081	MG	0.00	0.00	100.00
3630	-15081	-15080	-15149	-15150	MG	0.00	0.00	100.00
3630	-15150	-15149	-15214	-15215	MG	0.00	0.00	100.00
3630	-15215	-15214	-15281	-15282	MG	0.00	0.00	100.00
3630	-14618	-14617	-14685	-14686	MG	0.00	0.00	100.00
3630	-14686	-14685	-14751	-14752	MG	0.00	0.00	100.00
3630	-14752	-14751	-14817	-14818	MG	0.00	0.00	100.00
3630	-14818	-14817	-14883	-14884	MG	0.00	0.00	100.00
3630	-14884	-14883	-14949	-14950	MG	0.00	0.00	100.00
3630	-14950	-14949	-15015	-15016	MG	0.00	0.00	100.00
3630	-15016	-15015	-15081	-15082	MG	0.00	0.00	100.00
3630	-15082	-15081	-15150	-15151	MG	0.00	0.00	100.00
3630	-15151	-15150	-15215	-15216	MG	0.00	0.00	100.00
3630	-15216	-15215	-15282	-15283	MG	0.00	0.00	100.00
3630	-14619	-14618	-14686	-14687	MG	0.00	0.00	100.00
3630	-14687	-14686	-14752	-14753	MG	0.00	0.00	100.00
3630	-14753	-14752	-14818	-14819	MG	0.00	0.00	100.00
3630	-14819	-14818	-14884	-14885	MG	0.00	0.00	100.00
3630	-14885	-14884	-14950	-14951	MG	0.00	0.00	100.00
3630	-14951	-14950	-15016	-15017	MG	0.00	0.00	100.00
3630	-15017	-15016	-15082	-15083	MG	0.00	0.00	100.00
3630	-15083	-15082	-15151	-15097	MG	0.00	0.00	100.00
3630	-15097	-15151	-15216	-15217	MG	0.00	0.00	100.00
3630	-15217	-15216	-15283	-15284	MG	0.00	0.00	100.00
3630	-14620	-14619	-14687	-14688	MG	0.00	0.00	100.00
3630	-14688	-14687	-14753	-14754	MG	0.00	0.00	100.00
3630	-14754	-14753	-14819	-14820	MG	0.00	0.00	100.00
3630	-14820	-14819	-14885	-14886	MG	0.00	0.00	100.00

3630	-14886	-14885	-14951	-14952	MG	0.00	0.00	100.00
3630	-14952	-14951	-15017	-15018	MG	0.00	0.00	100.00
3630	-15018	-15017	-15083	-15084	MG	0.00	0.00	100.00
3630	-15084	-15083	-15097	-15152	MG	0.00	0.00	100.00
3630	-15152	-15097	-15217	-15218	MG	0.00	0.00	100.00
3630	-15218	-15217	-15284	-15285	MG	0.00	0.00	100.00
3630	-14621	-14620	-14688	-14689	MG	0.00	0.00	100.00
3630	-14689	-14688	-14754	-14755	MG	0.00	0.00	100.00
3630	-14755	-14754	-14820	-14821	MG	0.00	0.00	100.00
3630	-14821	-14820	-14886	-14887	MG	0.00	0.00	100.00
3630	-14887	-14886	-14952	-14953	MG	0.00	0.00	100.00
3630	-14953	-14952	-15018	-15019	MG	0.00	0.00	100.00
3630	-15019	-15018	-15084	-15085	MG	0.00	0.00	100.00
3630	-15085	-15084	-15152	-15153	MG	0.00	0.00	100.00
3630	-15153	-15152	-15218	-15219	MG	0.00	0.00	100.00
3630	-15219	-15218	-15285	-15286	MG	0.00	0.00	100.00
3630	-14622	-14621	-14689	-14690	MG	0.00	0.00	100.00
3630	-14690	-14689	-14755	-14756	MG	0.00	0.00	100.00
3630	-14756	-14755	-14821	-14822	MG	0.00	0.00	100.00
3630	-14822	-14821	-14887	-14888	MG	0.00	0.00	100.00
3630	-14888	-14887	-14953	-14954	MG	0.00	0.00	100.00
3630	-14954	-14953	-15019	-15020	MG	0.00	0.00	100.00
3630	-15020	-15019	-15085	-15086	MG	0.00	0.00	100.00
3630	-15086	-15085	-15153	-15154	MG	0.00	0.00	100.00
3630	-15154	-15153	-15219	-15220	MG	0.00	0.00	100.00
3630	-15220	-15219	-15286	-15287	MG	0.00	0.00	100.00
3630	-14623	-14622	-14690	-14691	MG	0.00	0.00	100.00
3630	-14691	-14690	-14756	-14757	MG	0.00	0.00	100.00
3630	-14757	-14756	-14822	-14823	MG	0.00	0.00	100.00
3630	-14823	-14822	-14888	-14889	MG	0.00	0.00	100.00
3630	-14889	-14888	-14954	-14955	MG	0.00	0.00	100.00
3630	-14955	-14954	-15020	-15021	MG	0.00	0.00	100.00
3630	-15021	-15020	-15086	-15087	MG	0.00	0.00	100.00
3630	-15087	-15086	-15154	-15155	MG	0.00	0.00	100.00
3630	-15155	-15154	-15220	-15221	MG	0.00	0.00	100.00
3630	-15221	-15220	-15287	-15288	MG	0.00	0.00	100.00
3630	-14624	-14623	-14691	-14692	MG	0.00	0.00	100.00
3630	-11133	-11199	-11200	-11134	MG	0.00	0.00	100.00
3630	-14758	-14757	-14823	-14824	MG	0.00	0.00	100.00
3630	-14824	-14823	-14889	-14890	MG	0.00	0.00	100.00
3630	-14890	-14889	-14955	-14956	MG	0.00	0.00	100.00
3630	-11403	-11473	-11474	-11404	MG	0.00	0.00	100.00
3630	-11473	-11543	-11544	-11474	MG	0.00	0.00	100.00
3630	-11543	-11613	-11614	-11544	MG	0.00	0.00	100.00
3630	-11613	-11685	-11686	-11614	MG	0.00	0.00	100.00
3630	-11685	-11751	-11752	-11686	MG	0.00	0.00	100.00
3630	-14625	-14624	-14692	-14693	MG	0.00	0.00	100.00
3630	-14693	-14692	-14758	-14759	MG	0.00	0.00	100.00
3630	-10506	-10541	-10592	-10507	MG	0.00	0.00	100.00
3630	-10541	-10707	-10708	-10592	MG	0.00	0.00	100.00
3630	-10707	-10792	-10793	-10708	MG	0.00	0.00	100.00
3630	-10792	-10844	-10863	-10793	MG	0.00	0.00	100.00
3630	-10844	-10934	-10894	-10863	MG	0.00	0.00	100.00
3630	-10934	-10999	-11000	-10894	MG	0.00	0.00	100.00
3630	-10999	-11077	-11078	-11000	MG	0.00	0.00	100.00
3630	-15223	-15222	-15289	-15290	MG	0.00	0.00	100.00
3630	-10366	-10427	-10428	-10367	MG	0.00	0.00	100.00
3630	-13953	-13952	-14022	-14023	MG	0.00	0.00	100.00
3630	-10507	-10592	-10569	-10508	MG	0.00	0.00	100.00
3630	-10592	-10708	-10709	-10569	MG	0.00	0.00	100.00
3630	-10708	-10793	-10794	-10709	MG	0.00	0.00	100.00
3630	-13949	-13948	-14018	-14019	MG	0.00	0.00	100.00
3630	-13948	-13947	-14017	-14018	MG	0.00	0.00	100.00
3630	-13947	-13946	-14016	-14017	MG	0.00	0.00	100.00
3630	-13946	-13945	-14015	-14016	MG	0.00	0.00	100.00
3630	-13945	-13944	-14014	-14015	MG	0.00	0.00	100.00
3630	-10367	-10428	-10429	-10368	MG	0.00	0.00	100.00
3630	-10428	-10508	-10509	-10429	MG	0.00	0.00	100.00
3630	-10508	-10569	-10593	-10509	MG	0.00	0.00	100.00
3630	-14023	-14022	-14089	-14090	MG	0.00	0.00	100.00
3630	-14022	-14021	-14088	-14089	MG	0.00	0.00	100.00
3630	-14021	-14020	-14087	-14088	MG	0.00	0.00	100.00
3630	-14020	-14019	-14086	-14087	MG	0.00	0.00	100.00
3630	-14019	-14018	-14085	-14086	MG	0.00	0.00	100.00
3630	-14018	-14017	-14084	-14085	MG	0.00	0.00	100.00
3630	-14017	-14016	-14083	-14084	MG	0.00	0.00	100.00
3630	-14016	-14015	-14067	-14083	MG	0.00	0.00	100.00
3630	-14015	-14014	-14082	-14067	MG	0.00	0.00	100.00
3630	-14014	-14013	-14066	-14082	MG	0.00	0.00	100.00

3630	-10593	-10710	-10711	-10619	MG	0.00	0.00	100.00
3630	-10710	-10795	-10796	-10711	MG	0.00	0.00	100.00
3630	-10795	-10865	-10866	-10796	MG	0.00	0.00	100.00
3630	-14089	-14088	-14156	-14157	MG	0.00	0.00	100.00
3630	-14088	-14087	-14155	-14156	MG	0.00	0.00	100.00
3630	-14087	-14086	-14154	-14155	MG	0.00	0.00	100.00
3630	-10299	-10369	-10377	-10300	MG	0.00	0.00	100.00
3630	-10369	-10445	-10446	-10377	MG	0.00	0.00	100.00
3630	-10445	-10510	-10511	-10446	MG	0.00	0.00	100.00
3630	-10510	-10619	-10524	-10511	MG	0.00	0.00	100.00
3630	-10619	-10711	-10712	-10524	MG	0.00	0.00	100.00
3630	-14082	-14066	-14148	-14149	MG	0.00	0.00	100.00
3630	-14066	-14081	-14147	-14148	MG	0.00	0.00	100.00
3630	-10866	-10936	-10937	-10867	MG	0.00	0.00	100.00
3630	-10936	-11003	-11004	-10937	MG	0.00	0.00	100.00
3630	-11003	-11081	-11082	-11004	MG	0.00	0.00	100.00
3630	-10300	-10377	-10370	-10301	MG	0.00	0.00	100.00
3630	-14155	-14154	-14220	-14221	MG	0.00	0.00	100.00
3630	-10446	-10511	-10512	-10447	MG	0.00	0.00	100.00
3630	-10511	-10524	-10594	-10512	MG	0.00	0.00	100.00
3630	-14152	-14151	-14217	-14218	MG	0.00	0.00	100.00
3630	-14151	-14150	-14216	-14217	MG	0.00	0.00	100.00
3630	-10797	-10867	-10845	-10798	MG	0.00	0.00	100.00
3630	-10867	-10937	-10938	-10845	MG	0.00	0.00	100.00
3630	-10937	-11004	-11005	-10938	MG	0.00	0.00	100.00
3630	-11004	-11082	-11083	-11005	MG	0.00	0.00	100.00
3630	-14224	-14223	-14289	-14290	MG	0.00	0.00	100.00
3630	-14223	-14222	-14288	-14289	MG	0.00	0.00	100.00
3630	-14222	-14221	-14287	-14288	MG	0.00	0.00	100.00
3630	-14221	-14220	-14286	-14287	MG	0.00	0.00	100.00
3630	-14220	-14219	-14285	-14286	MG	0.00	0.00	100.00
3630	-10713	-10798	-10799	-10714	MG	0.00	0.00	100.00
3630	-10798	-10845	-10868	-10799	MG	0.00	0.00	100.00
3630	-10845	-10938	-10939	-10868	MG	0.00	0.00	100.00
3630	-14216	-14215	-14281	-14282	MG	0.00	0.00	100.00
3630	-14215	-14214	-14280	-14281	MG	0.00	0.00	100.00
3630	-14214	-14213	-14279	-14280	MG	0.00	0.00	100.00
3630	-14291	-14290	-14356	-14357	MG	0.00	0.00	100.00
3630	-14290	-14289	-14355	-14356	MG	0.00	0.00	100.00
3630	-14289	-14288	-14354	-14355	MG	0.00	0.00	100.00
3630	-14288	-14287	-14353	-14354	MG	0.00	0.00	100.00
3630	-14287	-14286	-14352	-14353	MG	0.00	0.00	100.00
3630	-14286	-14285	-14351	-14352	MG	0.00	0.00	100.00
3630	-14285	-14284	-14350	-14351	MG	0.00	0.00	100.00
3630	-10939	-11006	-11007	-10940	MG	0.00	0.00	100.00
3630	-11006	-11084	-11039	-11007	MG	0.00	0.00	100.00
3630	-14282	-14281	-14347	-14348	MG	0.00	0.00	100.00
3630	-14281	-14280	-14346	-14347	MG	0.00	0.00	100.00
3630	-14280	-14279	-14345	-14346	MG	0.00	0.00	100.00
3630	-14357	-14356	-14422	-14423	MG	0.00	0.00	100.00
3630	-10596	-10715	-10716	-10626	MG	0.00	0.00	100.00
3630	-14355	-14354	-14420	-14421	MG	0.00	0.00	100.00
3630	-14354	-14353	-14419	-14420	MG	0.00	0.00	100.00
3630	-14353	-14352	-14418	-14419	MG	0.00	0.00	100.00
3630	-14352	-14351	-14417	-14418	MG	0.00	0.00	100.00
3630	-14351	-14350	-14416	-14417	MG	0.00	0.00	100.00
3630	-14350	-14349	-14415	-14416	MG	0.00	0.00	100.00
3630	-10379	-10448	-10449	-10372	MG	0.00	0.00	100.00
3630	-10448	-10515	-10516	-10449	MG	0.00	0.00	100.00
3630	-10515	-10626	-10597	-10516	MG	0.00	0.00	100.00
3630	-10626	-10716	-10686	-10597	MG	0.00	0.00	100.00
3630	-14423	-14422	-14488	-14489	MG	0.00	0.00	100.00
3630	-14422	-14421	-14487	-14488	MG	0.00	0.00	100.00
3630	-14421	-14420	-14486	-14487	MG	0.00	0.00	100.00
3630	-14420	-14419	-14485	-14486	MG	0.00	0.00	100.00
3630	-11008	-11085	-11086	-11009	MG	0.00	0.00	100.00
3630	-14418	-14417	-14483	-14484	MG	0.00	0.00	100.00
3630	-14417	-14416	-14482	-14483	MG	0.00	0.00	100.00
3630	-10449	-10516	-10517	-10450	MG	0.00	0.00	100.00
3630	-10516	-10597	-10598	-10517	MG	0.00	0.00	100.00
3630	-14414	-14413	-14479	-14480	MG	0.00	0.00	100.00
3630	-14413	-14412	-14478	-14479	MG	0.00	0.00	100.00
3630	-14412	-14411	-14477	-14478	MG	0.00	0.00	100.00
3630	-14489	-14488	-14554	-14555	MG	0.00	0.00	100.00
3630	-14488	-14487	-14553	-14554	MG	0.00	0.00	100.00
3630	-14487	-14486	-14552	-14553	MG	0.00	0.00	100.00
3630	-10306	-10380	-10381	-10307	MG	0.00	0.00	100.00
3630	-10380	-10450	-10451	-10381	MG	0.00	0.00	100.00
3630	-14484	-14483	-14549	-14550	MG	0.00	0.00	100.00

3630	-14483	-14482	-14548	-14549	MG	0.00	0.00	100.00
3630	-14482	-14481	-14547	-14548	MG	0.00	0.00	100.00
3630	-14481	-14480	-14546	-14547	MG	0.00	0.00	100.00
3630	-14480	-14479	-14545	-14546	MG	0.00	0.00	100.00
3630	-14479	-14478	-14544	-14545	MG	0.00	0.00	100.00
3630	-14478	-14477	-14543	-14544	MG	0.00	0.00	100.00
3630	-14555	-14554	-14624	-14625	MG	0.00	0.00	100.00
3630	-14554	-14553	-14623	-14624	MG	0.00	0.00	100.00
3630	-14553	-14552	-14622	-14623	MG	0.00	0.00	100.00
3630	-11898	-11940	-12011	-11889	MG	0.00	0.00	100.00
3630	-14551	-14550	-14620	-14621	MG	0.00	0.00	100.00
3630	-14550	-14549	-14619	-14620	MG	0.00	0.00	100.00
3630	-14549	-14548	-14618	-14619	MG	0.00	0.00	100.00
3630	-14548	-14547	-14617	-14618	MG	0.00	0.00	100.00
3630	-14547	-14546	-14616	-14617	MG	0.00	0.00	100.00
3630	-14546	-14545	-14615	-14616	MG	0.00	0.00	100.00
3630	-14545	-14544	-14614	-14615	MG	0.00	0.00	100.00
3630	-14544	-14543	-14613	-14614	MG	0.00	0.00	100.00
3630	-15325	-15324	-15390	-15391	MG	0.00	0.00	100.00
3630	-15391	-15390	-15456	-15457	MG	0.00	0.00	100.00
3630	-15457	-15456	-15522	-15523	MG	0.00	0.00	100.00
3630	-15523	-15522	-15588	-15589	MG	0.00	0.00	100.00
3630	-12146	-12243	-12243	-12164	MG	0.00	0.00	100.00
3630	-12243	-12315	-12316	-12244	MG	0.00	0.00	100.00
3630	-12315	-12383	-12384	-12316	MG	0.00	0.00	100.00
3630	-12383	-12449	-12450	-12384	MG	0.00	0.00	100.00
3630	-15853	-15852	-15919	-15920	MG	0.00	0.00	100.00
3630	-15260	-15259	-15325	-15326	MG	0.00	0.00	100.00
3630	-11828	-11890	-11899	-11829	MG	0.00	0.00	100.00
3630	-15392	-15391	-15457	-15458	MG	0.00	0.00	100.00
3630	-11983	-12022	-12101	-12012	MG	0.00	0.00	100.00
3630	-15524	-15523	-15589	-15590	MG	0.00	0.00	100.00
3630	-15590	-15589	-15655	-15656	MG	0.00	0.00	100.00
3630	-12244	-12316	-12317	-12245	MG	0.00	0.00	100.00
3630	-12316	-12384	-12385	-12317	MG	0.00	0.00	100.00
3630	-15788	-15787	-15853	-15854	MG	0.00	0.00	100.00
3630	-15854	-15853	-15920	-15921	MG	0.00	0.00	100.00
3630	-15261	-15260	-15326	-15327	MG	0.00	0.00	100.00
3630	-15327	-15326	-15392	-15393	MG	0.00	0.00	100.00
3630	-15393	-15392	-15458	-15459	MG	0.00	0.00	100.00
3630	-12012	-12101	-12054	-12013	MG	0.00	0.00	100.00
3630	-12101	-12171	-12115	-12054	MG	0.00	0.00	100.00
3630	-12171	-12245	-12246	-12115	MG	0.00	0.00	100.00
3630	-15657	-15656	-15722	-15723	MG	0.00	0.00	100.00
3630	-15723	-15722	-15788	-15789	MG	0.00	0.00	100.00
3630	-15789	-15788	-15854	-15855	MG	0.00	0.00	100.00
3630	-15855	-15854	-15921	-15922	MG	0.00	0.00	100.00
3630	-15262	-15261	-15327	-15328	MG	0.00	0.00	100.00
3630	-15328	-15327	-15393	-15394	MG	0.00	0.00	100.00
3630	-15394	-15393	-15459	-15460	MG	0.00	0.00	100.00
3630	-15460	-15459	-15525	-15526	MG	0.00	0.00	100.00
3630	-15526	-15525	-15591	-15592	MG	0.00	0.00	100.00
3630	-15592	-15591	-15657	-15658	MG	0.00	0.00	100.00
3630	-12246	-12318	-12319	-12247	MG	0.00	0.00	100.00
3630	-15724	-15723	-15789	-15790	MG	0.00	0.00	100.00
3630	-12386	-12452	-12453	-12387	MG	0.00	0.00	100.00
3630	-15856	-15855	-15922	-15923	MG	0.00	0.00	100.00
3630	-15263	-15262	-15328	-15329	MG	0.00	0.00	100.00
3630	-15329	-15328	-15394	-15395	MG	0.00	0.00	100.00
3630	-11892	-11998	-11999	-11900	MG	0.00	0.00	100.00
3630	-15461	-15460	-15526	-15527	MG	0.00	0.00	100.00
3630	-15527	-15526	-15592	-15593	MG	0.00	0.00	100.00
3630	-15593	-15592	-15658	-15659	MG	0.00	0.00	100.00
3630	-15659	-15658	-15724	-15725	MG	0.00	0.00	100.00
3630	-15725	-15724	-15790	-15791	MG	0.00	0.00	100.00
3630	-15791	-15790	-15856	-15857	MG	0.00	0.00	100.00
3630	-12453	-12537	-12538	-12454	MG	0.00	0.00	100.00
3630	-11766	-11832	-11833	-11767	MG	0.00	0.00	100.00
3630	-11832	-11900	-11901	-11833	MG	0.00	0.00	100.00
3630	-11900	-11999	-12000	-11901	MG	0.00	0.00	100.00
3630	-15462	-15461	-15527	-15528	MG	0.00	0.00	100.00
3630	-12102	-12120	-12165	-12070	MG	0.00	0.00	100.00
3630	-12120	-12248	-12249	-12165	MG	0.00	0.00	100.00
3630	-15660	-15659	-15725	-15726	MG	0.00	0.00	100.00
3630	-12320	-12388	-12389	-12321	MG	0.00	0.00	100.00
3630	-15792	-15791	-15857	-15858	MG	0.00	0.00	100.00
3630	-15857	-15924	-15925	-15858	MG	0.00	0.00	100.00
3630	-11767	-11833	-11834	-11768	MG	0.00	0.00	100.00
3630	-11833	-11901	-11902	-11834	MG	0.00	0.00	100.00

3630	-15397	-15396	-15462	-15463	MG	0.00	0.00	100.00
3630	-15463	-15462	-15528	-15529	MG	0.00	0.00	100.00
3630	-15529	-15528	-15594	-15595	MG	0.00	0.00	100.00
3630	-15595	-15594	-15660	-15661	MG	0.00	0.00	100.00
3630	-15661	-15660	-15726	-15727	MG	0.00	0.00	100.00
3630	-15727	-15726	-15792	-15793	MG	0.00	0.00	100.00
3630	-12389	-12455	-12456	-12390	MG	0.00	0.00	100.00
3630	-12455	-12539	-12550	-12456	MG	0.00	0.00	100.00
3630	-15266	-15265	-15331	-15332	MG	0.00	0.00	100.00
3630	-15332	-15331	-15397	-15398	MG	0.00	0.00	100.00
3630	-15398	-15397	-15463	-15464	MG	0.00	0.00	100.00
3630	-15464	-15463	-15529	-15530	MG	0.00	0.00	100.00
3630	-15530	-15529	-15595	-15596	MG	0.00	0.00	100.00
3630	-15596	-15595	-15661	-15662	MG	0.00	0.00	100.00
3630	-15662	-15661	-15727	-15728	MG	0.00	0.00	100.00
3630	-15728	-15727	-15793	-15794	MG	0.00	0.00	100.00
3630	-15794	-15793	-15859	-15860	MG	0.00	0.00	100.00
3630	-15860	-15859	-15926	-15927	MG	0.00	0.00	100.00
3630	-11769	-11835	-11836	-11770	MG	0.00	0.00	100.00
3630	-11835	-11903	-11904	-11836	MG	0.00	0.00	100.00
3630	-11903	-12001	-11941	-11904	MG	0.00	0.00	100.00
3630	-15465	-15464	-15530	-15531	MG	0.00	0.00	100.00
3630	-12055	-12188	-12122	-12024	MG	0.00	0.00	100.00
3630	-15597	-15596	-15662	-15663	MG	0.00	0.00	100.00
3630	-15663	-15662	-15728	-15729	MG	0.00	0.00	100.00
3630	-15729	-15728	-15794	-15795	MG	0.00	0.00	100.00
3630	-15795	-15794	-15860	-15861	MG	0.00	0.00	100.00
3630	-15861	-15860	-15927	-15928	MG	0.00	0.00	100.00
3630	-15268	-15267	-15333	-15334	MG	0.00	0.00	100.00
3630	-15334	-15333	-15399	-15400	MG	0.00	0.00	100.00
3630	-15400	-15399	-15465	-15466	MG	0.00	0.00	100.00
3630	-11941	-12024	-12071	-12002	MG	0.00	0.00	100.00
3630	-12024	-12122	-12172	-12071	MG	0.00	0.00	100.00
3630	-15598	-15597	-15663	-15664	MG	0.00	0.00	100.00
3630	-12252	-12324	-12325	-12253	MG	0.00	0.00	100.00
3630	-12324	-12392	-12393	-12325	MG	0.00	0.00	100.00
3630	-12392	-12458	-12459	-12393	MG	0.00	0.00	100.00
3630	-12458	-12541	-12542	-12459	MG	0.00	0.00	100.00
3630	-11771	-11837	-11838	-11772	MG	0.00	0.00	100.00
3630	-11837	-11905	-11906	-11838	MG	0.00	0.00	100.00
3630	-15401	-15400	-15466	-15467	MG	0.00	0.00	100.00
3630	-15467	-15466	-15532	-15533	MG	0.00	0.00	100.00
3630	-15533	-15532	-15598	-15599	MG	0.00	0.00	100.00
3630	-15599	-15598	-15664	-15665	MG	0.00	0.00	100.00
3630	-15665	-15664	-15730	-15731	MG	0.00	0.00	100.00
3630	-12325	-12393	-12394	-12326	MG	0.00	0.00	100.00
3630	-12393	-12459	-12460	-12394	MG	0.00	0.00	100.00
3630	-12459	-12542	-12543	-12460	MG	0.00	0.00	100.00
3630	-15270	-15269	-15335	-15336	MG	0.00	0.00	100.00
3630	-15336	-15335	-15401	-15402	MG	0.00	0.00	100.00
3630	-15402	-15401	-15467	-15468	MG	0.00	0.00	100.00
3630	-15468	-15467	-15533	-15534	MG	0.00	0.00	100.00
3630	-15534	-15533	-15599	-15600	MG	0.00	0.00	100.00
3630	-13610	-13676	-13677	-13611	MG	0.00	0.00	100.00
3630	-13676	-13742	-13743	-13677	MG	0.00	0.00	100.00
3630	-15732	-15731	-15797	-15798	MG	0.00	0.00	100.00
3630	-15798	-15797	-15863	-15864	MG	0.00	0.00	100.00
3630	-15864	-15863	-15930	-15931	MG	0.00	0.00	100.00
3630	-15920	-15919	-15985	-15986	MG	0.00	0.00	100.00
3630	-15986	-15985	-16051	-16052	MG	0.00	0.00	100.00
3630	-16052	-16051	-16117	-16118	MG	0.00	0.00	100.00
3630	-16118	-16117	-16183	-16184	MG	0.00	0.00	100.00
3630	-16184	-16183	-16249	-16250	MG	0.00	0.00	100.00
3630	-16250	-16249	-16315	-16316	MG	0.00	0.00	100.00
3630	-16316	-16315	-16381	-16382	MG	0.00	0.00	100.00
3630	-13743	-13809	-13810	-13744	MG	0.00	0.00	100.00
3630	-13809	-13875	-13876	-13810	MG	0.00	0.00	100.00
3630	-13875	-13943	-13944	-13876	MG	0.00	0.00	100.00
3630	-15921	-15920	-15986	-15987	MG	0.00	0.00	100.00
3630	-15987	-15986	-16052	-16053	MG	0.00	0.00	100.00
3630	-16053	-16052	-16118	-16119	MG	0.00	0.00	100.00
3630	-13476	-13546	-13547	-13477	MG	0.00	0.00	100.00
3630	-13546	-13612	-13613	-13547	MG	0.00	0.00	100.00
3630	-13612	-13678	-13679	-13613	MG	0.00	0.00	100.00
3630	-13678	-13744	-13745	-13679	MG	0.00	0.00	100.00
3630	-13744	-13810	-13811	-13745	MG	0.00	0.00	100.00
3630	-15734	-15735	-15801	-15800	MG	0.00	0.00	100.00
3630	-15735	-15736	-15802	-15801	MG	0.00	0.00	100.00
3630	-15922	-15921	-15987	-15988	MG	0.00	0.00	100.00

3630	-15988	-15987	-16053	-16054	MG	0.00	0.00	100.00
3630	-13405	-13477	-13478	-13406	MG	0.00	0.00	100.00
3630	-16120	-16119	-16185	-16186	MG	0.00	0.00	100.00
3630	-16186	-16185	-16251	-16252	MG	0.00	0.00	100.00
3630	-16252	-16251	-16317	-16318	MG	0.00	0.00	100.00
3630	-13679	-13745	-13746	-13680	MG	0.00	0.00	100.00
3630	-15338	-15339	-15405	-15404	MG	0.00	0.00	100.00
3630	-13811	-13877	-13878	-13812	MG	0.00	0.00	100.00
3630	-15142	-15143	-15207	-15206	MG	0.00	0.00	100.00
3630	-15923	-15922	-15988	-15989	MG	0.00	0.00	100.00
3630	-15989	-15988	-16054	-16055	MG	0.00	0.00	100.00
3630	-13406	-13478	-13479	-13407	MG	0.00	0.00	100.00
3630	-13478	-13548	-13549	-13479	MG	0.00	0.00	100.00
3630	-16187	-16186	-16252	-16253	MG	0.00	0.00	100.00
3630	-16253	-16252	-16318	-16319	MG	0.00	0.00	100.00
3630	-16319	-16318	-16384	-16385	MG	0.00	0.00	100.00
3630	-14940	-14941	-15007	-15006	MG	0.00	0.00	100.00
3630	-14742	-14743	-14809	-14808	MG	0.00	0.00	100.00
3630	-14807	-14808	-14874	-14873	MG	0.00	0.00	100.00
3630	-14808	-14809	-14875	-14874	MG	0.00	0.00	100.00
3630	-15990	-15989	-16055	-16056	MG	0.00	0.00	100.00
3630	-16056	-16055	-16121	-16122	MG	0.00	0.00	100.00
3630	-16122	-16121	-16187	-16188	MG	0.00	0.00	100.00
3630	-16188	-16187	-16253	-16254	MG	0.00	0.00	100.00
3630	-16254	-16253	-16319	-16320	MG	0.00	0.00	100.00
3630	-16320	-16319	-16385	-16386	MG	0.00	0.00	100.00
3630	-14340	-14341	-14407	-14406	MG	0.00	0.00	100.00
3630	-13813	-13879	-13880	-13814	MG	0.00	0.00	100.00
3630	-14406	-14407	-14473	-14472	MG	0.00	0.00	100.00
3630	-13595	-13661	-13662	-13596	MG	0.00	0.00	100.00
3630	-13341	-13408	-13409	-13342	MG	0.00	0.00	100.00
3630	-16057	-16056	-16122	-16123	MG	0.00	0.00	100.00
3630	-13480	-13550	-13551	-13481	MG	0.00	0.00	100.00
3630	-16189	-16188	-16254	-16255	MG	0.00	0.00	100.00
3630	-13616	-13682	-13683	-13617	MG	0.00	0.00	100.00
3630	-13682	-13748	-13749	-13683	MG	0.00	0.00	100.00
3630	-14006	-14007	-14078	-14077	MG	0.00	0.00	100.00
3630	-13814	-13880	-13881	-13815	MG	0.00	0.00	100.00
3630	-13803	-13804	-13870	-13869	MG	0.00	0.00	100.00
3630	-15926	-15925	-15991	-15992	MG	0.00	0.00	100.00
3630	-15992	-15991	-16057	-16058	MG	0.00	0.00	100.00
3630	-16058	-16057	-16123	-16124	MG	0.00	0.00	100.00
3630	-16124	-16123	-16189	-16190	MG	0.00	0.00	100.00
3630	-16190	-16189	-16255	-16256	MG	0.00	0.00	100.00
3630	-13617	-13683	-13684	-13618	MG	0.00	0.00	100.00
3630	-13683	-13749	-13750	-13684	MG	0.00	0.00	100.00
3630	-13749	-13815	-13816	-13750	MG	0.00	0.00	100.00
3630	-13397	-13398	-13470	-13469	MG	0.00	0.00	100.00
3630	-13468	-13469	-13539	-13538	MG	0.00	0.00	100.00
3630	-15927	-15926	-15992	-15993	MG	0.00	0.00	100.00
3630	-15993	-15992	-16058	-16059	MG	0.00	0.00	100.00
3630	-16059	-16058	-16124	-16125	MG	0.00	0.00	100.00
3630	-16125	-16124	-16190	-16191	MG	0.00	0.00	100.00
3630	-16191	-16190	-16256	-16257	MG	0.00	0.00	100.00
3630	-16257	-16256	-16322	-16323	MG	0.00	0.00	100.00
3630	-16323	-16322	-16388	-16389	MG	0.00	0.00	100.00
3630	-12974	-12975	-13054	-13053	MG	0.00	0.00	100.00
3630	-13052	-13053	-13085	-13128	MG	0.00	0.00	100.00
3630	-13053	-13054	-13117	-13085	MG	0.00	0.00	100.00
3630	-13275	-13344	-13345	-13276	MG	0.00	0.00	100.00
3630	-13344	-13411	-13412	-13345	MG	0.00	0.00	100.00
3630	-13411	-13483	-13484	-13412	MG	0.00	0.00	100.00
3630	-16126	-16125	-16191	-16192	MG	0.00	0.00	100.00
3630	-16192	-16191	-16257	-16258	MG	0.00	0.00	100.00
3630	-16258	-16257	-16323	-16324	MG	0.00	0.00	100.00
3630	-13685	-13751	-13752	-13686	MG	0.00	0.00	100.00
3630	-13751	-13817	-13818	-13752	MG	0.00	0.00	100.00
3630	-13817	-13883	-13884	-13818	MG	0.00	0.00	100.00
3630	-13883	-13951	-13952	-13884	MG	0.00	0.00	100.00
3630	-13276	-13345	-13346	-13277	MG	0.00	0.00	100.00
3630	-15995	-15994	-16060	-16061	MG	0.00	0.00	100.00
3630	-16061	-16060	-16126	-16127	MG	0.00	0.00	100.00
3630	-16127	-16126	-16192	-16193	MG	0.00	0.00	100.00
3630	-13554	-13620	-13621	-13555	MG	0.00	0.00	100.00
3630	-13620	-13686	-13687	-13621	MG	0.00	0.00	100.00
3630	-16325	-16324	-16390	-16391	MG	0.00	0.00	100.00
3630	-13752	-13818	-13819	-13753	MG	0.00	0.00	100.00
3630	-11867	-11885	-11972	-12010	MG	0.00	0.00	100.00
3630	-13884	-13952	-13953	-13885	MG	0.00	0.00	100.00



3630	-15930	-15929	-15995	-15996	MG	0.00	0.00	100.00
3630	-13346	-13413	-13414	-13347	MG	0.00	0.00	100.00
3630	-13413	-13485	-13486	-13414	MG	0.00	0.00	100.00
3630	-16128	-16127	-16193	-16194	MG	0.00	0.00	100.00
3630	-13555	-13621	-13622	-13556	MG	0.00	0.00	100.00
3630	-16260	-16259	-16325	-16326	MG	0.00	0.00	100.00
3630	-13687	-13753	-13754	-13688	MG	0.00	0.00	100.00
3630	-13753	-13819	-13820	-13754	MG	0.00	0.00	100.00
3630	-13819	-13885	-13886	-13820	MG	0.00	0.00	100.00
3630	-11547	-11548	-11618	-11617	MG	0.00	0.00	100.00
3630	-15931	-15930	-15996	-15997	MG	0.00	0.00	100.00
3630	-15997	-15996	-16062	-16063	MG	0.00	0.00	100.00
3630	-16063	-16062	-16128	-16129	MG	0.00	0.00	100.00
3630	-16129	-16128	-16194	-16195	MG	0.00	0.00	100.00
3630	-12827	-12897	-12898	-12828	MG	0.00	0.00	100.00
3630	-12897	-12964	-12978	-12898	MG	0.00	0.00	100.00
3630	-12964	-13058	-13059	-12978	MG	0.00	0.00	100.00
3630	-11136	-11137	-11203	-11202	MG	0.00	0.00	100.00
3630	-11137	-11138	-11204	-11203	MG	0.00	0.00	100.00
3630	-10929	-10930	-10995	-10994	MG	0.00	0.00	100.00
3630	-14594	-14593	-14661	-14662	MG	0.00	0.00	100.00
3630	-14662	-14661	-14727	-14728	MG	0.00	0.00	100.00
3630	-14728	-14727	-14793	-14794	MG	0.00	0.00	100.00
3630	-14794	-14793	-14859	-14860	MG	0.00	0.00	100.00
3630	-14860	-14859	-14925	-14926	MG	0.00	0.00	100.00
3630	-14926	-14925	-14991	-14992	MG	0.00	0.00	100.00
3630	-14992	-14991	-15057	-15058	MG	0.00	0.00	100.00
3630	-13059	-13130	-13121	-13060	MG	0.00	0.00	100.00
3630	-13130	-13201	-13202	-13121	MG	0.00	0.00	100.00
3630	-15192	-15191	-15258	-15259	MG	0.00	0.00	100.00
3630	-14595	-14594	-14662	-14663	MG	0.00	0.00	100.00
3630	-14663	-14662	-14728	-14729	MG	0.00	0.00	100.00
3630	-14729	-14728	-14794	-14795	MG	0.00	0.00	100.00
3630	-14795	-14794	-14860	-14861	MG	0.00	0.00	100.00
3630	-14861	-14860	-14926	-14927	MG	0.00	0.00	100.00
3630	-14927	-14926	-14992	-14993	MG	0.00	0.00	100.00
3630	-14993	-14992	-15058	-15059	MG	0.00	0.00	100.00
3630	-15059	-15058	-15124	-15135	MG	0.00	0.00	100.00
3630	-15135	-15124	-15192	-15193	MG	0.00	0.00	100.00
3630	-15193	-15192	-15259	-15260	MG	0.00	0.00	100.00
3630	-14596	-14595	-14663	-14664	MG	0.00	0.00	100.00
3630	-14664	-14663	-14729	-14730	MG	0.00	0.00	100.00
3630	-12689	-12760	-12761	-12690	MG	0.00	0.00	100.00
3630	-14796	-14795	-14861	-14862	MG	0.00	0.00	100.00
3630	-14862	-14861	-14927	-14928	MG	0.00	0.00	100.00
3630	-14928	-14927	-14993	-14994	MG	0.00	0.00	100.00
3630	-14994	-14993	-15059	-15060	MG	0.00	0.00	100.00
3630	-15060	-15059	-15135	-15125	MG	0.00	0.00	100.00
3630	-15125	-15135	-15193	-15194	MG	0.00	0.00	100.00
3630	-15194	-15193	-15260	-15261	MG	0.00	0.00	100.00
3630	-14597	-14596	-14664	-14665	MG	0.00	0.00	100.00
3630	-14665	-14664	-14730	-14731	MG	0.00	0.00	100.00
3630	-14731	-14730	-14796	-14797	MG	0.00	0.00	100.00
3630	-14797	-14796	-14862	-14863	MG	0.00	0.00	100.00
3630	-14863	-14862	-14928	-14929	MG	0.00	0.00	100.00
3630	-14929	-14928	-14994	-14995	MG	0.00	0.00	100.00
3630	-14995	-14994	-15060	-15061	MG	0.00	0.00	100.00
3630	-15061	-15060	-15125	-15136	MG	0.00	0.00	100.00
3630	-15136	-15125	-15194	-15195	MG	0.00	0.00	100.00
3630	-15195	-15194	-15261	-15262	MG	0.00	0.00	100.00
3630	-14598	-14597	-14665	-14666	MG	0.00	0.00	100.00
3630	-14666	-14665	-14731	-14732	MG	0.00	0.00	100.00
3630	-14732	-14731	-14797	-14798	MG	0.00	0.00	100.00
3630	-14798	-14797	-14863	-14864	MG	0.00	0.00	100.00
3630	-14864	-14863	-14929	-14930	MG	0.00	0.00	100.00
3630	-14930	-14929	-14995	-14996	MG	0.00	0.00	100.00
3630	-14996	-14995	-15061	-15062	MG	0.00	0.00	100.00
3630	-15062	-15061	-15136	-15096	MG	0.00	0.00	100.00
3630	-15096	-15136	-15195	-15196	MG	0.00	0.00	100.00
3630	-15196	-15195	-15262	-15263	MG	0.00	0.00	100.00
3630	-14599	-14598	-14666	-14667	MG	0.00	0.00	100.00
3630	-14667	-14666	-14732	-14733	MG	0.00	0.00	100.00
3630	-14733	-14732	-14798	-14799	MG	0.00	0.00	100.00
3630	-14799	-14798	-14864	-14865	MG	0.00	0.00	100.00
3630	-14865	-14864	-14930	-14931	MG	0.00	0.00	100.00
3630	-14931	-14930	-14996	-14997	MG	0.00	0.00	100.00
3630	-14997	-14996	-15062	-15063	MG	0.00	0.00	100.00
3630	-15063	-15062	-15096	-15126	MG	0.00	0.00	100.00
3630	-15126	-15096	-15196	-15197	MG	0.00	0.00	100.00

3630	-15197	-15196	-15263	-15264	MG	0.00	0.00	100.00
3630	-14600	-14599	-14667	-14668	MG	0.00	0.00	100.00
3630	-14668	-14667	-14733	-14734	MG	0.00	0.00	100.00
3630	-14734	-14733	-14799	-14800	MG	0.00	0.00	100.00
3630	-14800	-14799	-14865	-14866	MG	0.00	0.00	100.00
3630	-14866	-14865	-14931	-14932	MG	0.00	0.00	100.00
3630	-14932	-14931	-14997	-14998	MG	0.00	0.00	100.00
3630	-14998	-14997	-15063	-15064	MG	0.00	0.00	100.00
3630	-15064	-15063	-15126	-15137	MG	0.00	0.00	100.00
3630	-15137	-15126	-15197	-15198	MG	0.00	0.00	100.00
3630	-15198	-15197	-15264	-15265	MG	0.00	0.00	100.00
3630	-14601	-14600	-14668	-14669	MG	0.00	0.00	100.00
3630	-14669	-14668	-14734	-14735	MG	0.00	0.00	100.00
3630	-14735	-14734	-14800	-14801	MG	0.00	0.00	100.00
3630	-14801	-14800	-14866	-14867	MG	0.00	0.00	100.00
3630	-14867	-14866	-14932	-14933	MG	0.00	0.00	100.00
3630	-14933	-14932	-14998	-14999	MG	0.00	0.00	100.00
3630	-14999	-14998	-15064	-15065	MG	0.00	0.00	100.00
3630	-15065	-15064	-15137	-15138	MG	0.00	0.00	100.00
3630	-15138	-15137	-15198	-15199	MG	0.00	0.00	100.00
3630	-15199	-15198	-15265	-15266	MG	0.00	0.00	100.00
3630	-14602	-14601	-14669	-14670	MG	0.00	0.00	100.00
3630	-14670	-14669	-14735	-14736	MG	0.00	0.00	100.00
3630	-14736	-14735	-14801	-14802	MG	0.00	0.00	100.00
3630	-14802	-14801	-14867	-14868	MG	0.00	0.00	100.00
3630	-14868	-14867	-14933	-14934	MG	0.00	0.00	100.00
3630	-14934	-14933	-14999	-15000	MG	0.00	0.00	100.00
3630	-15000	-14999	-15065	-15066	MG	0.00	0.00	100.00
3630	-15066	-15065	-15138	-15139	MG	0.00	0.00	100.00
3630	-15139	-15138	-15199	-15200	MG	0.00	0.00	100.00
3630	-15200	-15199	-15266	-15267	MG	0.00	0.00	100.00
3630	-14603	-14602	-14670	-14671	MG	0.00	0.00	100.00
3630	-14671	-14670	-14736	-14737	MG	0.00	0.00	100.00
3630	-14737	-14736	-14802	-14803	MG	0.00	0.00	100.00
3630	-14803	-14802	-14868	-14869	MG	0.00	0.00	100.00
3630	-14869	-14868	-14934	-14935	MG	0.00	0.00	100.00
3630	-14935	-14934	-15000	-15001	MG	0.00	0.00	100.00
3630	-15001	-15000	-15066	-15067	MG	0.00	0.00	100.00
3630	-15067	-15066	-15139	-15127	MG	0.00	0.00	100.00
3630	-15127	-15139	-15200	-15201	MG	0.00	0.00	100.00
3630	-15201	-15200	-15267	-15268	MG	0.00	0.00	100.00
3630	-14604	-14603	-14671	-14672	MG	0.00	0.00	100.00
3630	-14672	-14671	-14737	-14738	MG	0.00	0.00	100.00
3630	-14738	-14737	-14803	-14804	MG	0.00	0.00	100.00
3630	-14804	-14803	-14869	-14870	MG	0.00	0.00	100.00
3630	-14870	-14869	-14935	-14936	MG	0.00	0.00	100.00
3630	-14936	-14935	-15001	-15002	MG	0.00	0.00	100.00
3630	-15002	-15001	-15067	-15068	MG	0.00	0.00	100.00
3630	-15068	-15067	-15127	-15128	MG	0.00	0.00	100.00
3630	-15128	-15127	-15201	-15202	MG	0.00	0.00	100.00
3630	-15202	-15201	-15268	-15269	MG	0.00	0.00	100.00
3630	-14605	-14604	-14672	-14673	MG	0.00	0.00	100.00
3630	-14673	-14672	-14738	-14739	MG	0.00	0.00	100.00
3630	-14739	-14738	-14804	-14805	MG	0.00	0.00	100.00
3630	-14805	-14804	-14870	-14871	MG	0.00	0.00	100.00
3630	-14871	-14870	-14936	-14937	MG	0.00	0.00	100.00
3630	-14937	-14936	-15002	-15003	MG	0.00	0.00	100.00
3630	-15003	-15002	-15068	-15069	MG	0.00	0.00	100.00
3630	-15069	-15068	-15128	-15129	MG	0.00	0.00	100.00
3630	-15129	-15128	-15202	-15203	MG	0.00	0.00	100.00
3630	-15203	-15202	-15269	-15270	MG	0.00	0.00	100.00
3630	-13934	-13933	-14003	-14004	MG	0.00	0.00	100.00
3630	-13933	-13932	-14002	-14003	MG	0.00	0.00	100.00
3630	-13932	-13931	-14001	-14002	MG	0.00	0.00	100.00
3630	-13931	-13930	-14000	-14001	MG	0.00	0.00	100.00
3630	-13930	-13929	-13999	-14000	MG	0.00	0.00	100.00
3630	-13929	-13928	-13998	-13999	MG	0.00	0.00	100.00
3630	-13928	-13927	-13997	-13998	MG	0.00	0.00	100.00
3630	-13927	-13926	-13996	-13997	MG	0.00	0.00	100.00
3630	-13926	-13925	-13995	-13996	MG	0.00	0.00	100.00
3630	-13925	-13924	-13994	-13995	MG	0.00	0.00	100.00
3630	-13924	-13923	-13993	-13994	MG	0.00	0.00	100.00
3630	-13923	-13922	-13992	-13993	MG	0.00	0.00	100.00
3630	-14004	-14003	-14075	-14076	MG	0.00	0.00	100.00
3630	-14003	-14002	-14074	-14075	MG	0.00	0.00	100.00
3630	-14002	-14001	-14073	-14074	MG	0.00	0.00	100.00
3630	-14001	-14000	-14072	-14073	MG	0.00	0.00	100.00
3630	-14000	-13999	-14071	-14072	MG	0.00	0.00	100.00
3630	-13999	-13998	-14070	-14071	MG	0.00	0.00	100.00

3630	-13998	-13997	-14062	-14070	MG	0.00	0.00	100.00
3630	-13997	-13996	-14061	-14062	MG	0.00	0.00	100.00
3630	-13996	-13995	-14060	-14061	MG	0.00	0.00	100.00
3630	-13995	-13994	-14059	-14060	MG	0.00	0.00	100.00
3630	-13994	-13993	-14058	-14059	MG	0.00	0.00	100.00
3630	-13993	-13992	-14057	-14058	MG	0.00	0.00	100.00
3630	-14076	-14075	-14138	-14139	MG	0.00	0.00	100.00
3630	-14075	-14074	-14137	-14138	MG	0.00	0.00	100.00
3630	-14074	-14073	-14136	-14137	MG	0.00	0.00	100.00
3630	-14073	-14072	-14135	-14136	MG	0.00	0.00	100.00
3630	-14072	-14071	-14134	-14135	MG	0.00	0.00	100.00
3630	-14071	-14070	-14133	-14134	MG	0.00	0.00	100.00
3630	-14070	-14062	-14132	-14133	MG	0.00	0.00	100.00
3630	-14062	-14061	-14131	-14132	MG	0.00	0.00	100.00
3630	-14061	-14060	-14130	-14131	MG	0.00	0.00	100.00
3630	-14060	-14059	-14129	-14130	MG	0.00	0.00	100.00
3630	-14059	-14058	-14128	-14129	MG	0.00	0.00	100.00
3630	-14058	-14057	-14127	-14128	MG	0.00	0.00	100.00
3630	-14139	-14138	-14204	-14205	MG	0.00	0.00	100.00
3630	-14138	-14137	-14203	-14204	MG	0.00	0.00	100.00
3630	-14137	-14136	-14202	-14203	MG	0.00	0.00	100.00
3630	-14136	-14135	-14201	-14202	MG	0.00	0.00	100.00
3630	-14135	-14134	-14200	-14201	MG	0.00	0.00	100.00
3630	-14134	-14133	-14199	-14200	MG	0.00	0.00	100.00
3630	-14133	-14132	-14198	-14199	MG	0.00	0.00	100.00
3630	-14132	-14131	-14197	-14198	MG	0.00	0.00	100.00
3630	-14131	-14130	-14196	-14197	MG	0.00	0.00	100.00
3630	-14130	-14129	-14195	-14196	MG	0.00	0.00	100.00
3630	-14129	-14128	-14194	-14195	MG	0.00	0.00	100.00
3630	-14128	-14127	-14193	-14194	MG	0.00	0.00	100.00
3630	-14205	-14204	-14270	-14271	MG	0.00	0.00	100.00
3630	-14204	-14203	-14269	-14270	MG	0.00	0.00	100.00
3630	-14203	-14202	-14268	-14269	MG	0.00	0.00	100.00
3630	-14202	-14201	-14267	-14268	MG	0.00	0.00	100.00
3630	-14201	-14200	-14266	-14267	MG	0.00	0.00	100.00
3630	-14200	-14199	-14265	-14266	MG	0.00	0.00	100.00
3630	-14199	-14198	-14264	-14265	MG	0.00	0.00	100.00
3630	-14198	-14197	-14263	-14264	MG	0.00	0.00	100.00
3630	-14197	-14196	-14262	-14263	MG	0.00	0.00	100.00
3630	-14196	-14195	-14261	-14262	MG	0.00	0.00	100.00
3630	-14195	-14194	-14260	-14261	MG	0.00	0.00	100.00
3630	-14194	-14193	-14259	-14260	MG	0.00	0.00	100.00
3630	-14271	-14270	-14336	-14337	MG	0.00	0.00	100.00
3630	-14270	-14269	-14335	-14336	MG	0.00	0.00	100.00
3630	-14269	-14268	-14334	-14335	MG	0.00	0.00	100.00
3630	-14268	-14267	-14333	-14334	MG	0.00	0.00	100.00
3630	-14267	-14266	-14332	-14333	MG	0.00	0.00	100.00
3630	-14266	-14265	-14331	-14332	MG	0.00	0.00	100.00
3630	-14265	-14264	-14330	-14331	MG	0.00	0.00	100.00
3630	-14264	-14263	-14329	-14330	MG	0.00	0.00	100.00
3630	-14263	-14262	-14328	-14329	MG	0.00	0.00	100.00
3630	-14262	-14261	-14327	-14328	MG	0.00	0.00	100.00
3630	-14261	-14260	-14326	-14327	MG	0.00	0.00	100.00
3630	-14260	-14259	-14325	-14326	MG	0.00	0.00	100.00
3630	-14337	-14336	-14402	-14403	MG	0.00	0.00	100.00
3630	-14336	-14335	-14401	-14402	MG	0.00	0.00	100.00
3630	-14335	-14334	-14400	-14401	MG	0.00	0.00	100.00
3630	-14334	-14333	-14399	-14400	MG	0.00	0.00	100.00
3630	-14333	-14332	-14398	-14399	MG	0.00	0.00	100.00
3630	-14332	-14331	-14397	-14398	MG	0.00	0.00	100.00
3630	-14331	-14330	-14396	-14397	MG	0.00	0.00	100.00
3630	-14330	-14329	-14395	-14396	MG	0.00	0.00	100.00
3630	-14329	-14328	-14394	-14395	MG	0.00	0.00	100.00
3630	-14328	-14327	-14393	-14394	MG	0.00	0.00	100.00
3630	-14327	-14326	-14392	-14393	MG	0.00	0.00	100.00
3630	-14326	-14325	-14391	-14392	MG	0.00	0.00	100.00
3630	-14403	-14402	-14468	-14469	MG	0.00	0.00	100.00
3630	-14402	-14401	-14467	-14468	MG	0.00	0.00	100.00
3630	-14401	-14400	-14466	-14467	MG	0.00	0.00	100.00
3630	-14400	-14399	-14465	-14466	MG	0.00	0.00	100.00
3630	-14399	-14398	-14464	-14465	MG	0.00	0.00	100.00
3630	-14398	-14397	-14463	-14464	MG	0.00	0.00	100.00
3630	-14397	-14396	-14462	-14463	MG	0.00	0.00	100.00
3630	-14396	-14395	-14461	-14462	MG	0.00	0.00	100.00
3630	-14395	-14394	-14460	-14461	MG	0.00	0.00	100.00
3630	-14394	-14393	-14459	-14460	MG	0.00	0.00	100.00
3630	-14393	-14392	-14458	-14459	MG	0.00	0.00	100.00
3630	-14392	-14391	-14457	-14458	MG	0.00	0.00	100.00
3630	-14469	-14468	-14534	-14535	MG	0.00	0.00	100.00

3630	-14468	-14467	-14533	-14534	MG	0.00	0.00	100.00
3630	-14467	-14466	-14532	-14533	MG	0.00	0.00	100.00
3630	-14466	-14465	-14531	-14532	MG	0.00	0.00	100.00
3630	-14465	-14464	-14530	-14531	MG	0.00	0.00	100.00
3630	-14464	-14463	-14529	-14530	MG	0.00	0.00	100.00
3630	-14463	-14462	-14528	-14529	MG	0.00	0.00	100.00
3630	-14462	-14461	-14527	-14528	MG	0.00	0.00	100.00
3630	-14461	-14460	-14526	-14527	MG	0.00	0.00	100.00
3630	-14460	-14459	-14525	-14526	MG	0.00	0.00	100.00
3630	-14459	-14458	-14524	-14525	MG	0.00	0.00	100.00
3630	-14458	-14457	-14523	-14524	MG	0.00	0.00	100.00
3630	-14535	-14534	-14604	-14605	MG	0.00	0.00	100.00
3630	-14534	-14533	-14603	-14604	MG	0.00	0.00	100.00
3630	-14533	-14532	-14602	-14603	MG	0.00	0.00	100.00
3630	-14532	-14531	-14601	-14602	MG	0.00	0.00	100.00
3630	-14531	-14530	-14600	-14601	MG	0.00	0.00	100.00
3630	-14530	-14529	-14599	-14600	MG	0.00	0.00	100.00
3630	-14529	-14528	-14598	-14599	MG	0.00	0.00	100.00
3630	-14528	-14527	-14597	-14598	MG	0.00	0.00	100.00
3630	-14527	-14526	-14596	-14597	MG	0.00	0.00	100.00
3630	-14526	-14525	-14595	-14596	MG	0.00	0.00	100.00
3630	-14525	-14524	-14594	-14595	MG	0.00	0.00	100.00
3630	-14524	-14523	-14593	-14594	MG	0.00	0.00	100.00
3630	-11806	-11861	-11862	-11807	MG	0.00	0.00	100.00
3630	-11861	-11994	-11995	-11862	MG	0.00	0.00	100.00
3630	-11994	-12095	-12019	-11995	MG	0.00	0.00	100.00
3630	-12095	-12143	-12157	-12019	MG	0.00	0.00	100.00
3630	-12143	-12222	-12223	-12157	MG	0.00	0.00	100.00
3630	-12222	-12294	-12295	-12223	MG	0.00	0.00	100.00
3630	-12294	-12362	-12363	-12295	MG	0.00	0.00	100.00
3630	-12362	-12428	-12429	-12363	MG	0.00	0.00	100.00
3630	-12428	-12508	-12509	-12429	MG	0.00	0.00	100.00
3630	-11741	-11807	-11808	-11742	MG	0.00	0.00	100.00
3630	-11807	-11862	-11876	-11808	MG	0.00	0.00	100.00
3630	-11862	-11995	-11947	-11876	MG	0.00	0.00	100.00
3630	-11995	-12019	-12060	-11947	MG	0.00	0.00	100.00
3630	-12019	-12157	-12158	-12060	MG	0.00	0.00	100.00
3630	-12157	-12223	-12224	-12158	MG	0.00	0.00	100.00
3630	-12223	-12295	-12296	-12224	MG	0.00	0.00	100.00
3630	-12295	-12363	-12364	-12296	MG	0.00	0.00	100.00
3630	-12363	-12429	-12430	-12364	MG	0.00	0.00	100.00
3630	-12429	-12509	-12510	-12430	MG	0.00	0.00	100.00
3630	-11742	-11808	-11809	-11743	MG	0.00	0.00	100.00
3630	-11808	-11876	-11863	-11809	MG	0.00	0.00	100.00
3630	-11876	-11947	-11937	-11863	MG	0.00	0.00	100.00
3630	-11947	-12060	-12034	-11937	MG	0.00	0.00	100.00
3630	-12060	-12158	-12108	-12034	MG	0.00	0.00	100.00
3630	-12158	-12224	-12225	-12108	MG	0.00	0.00	100.00
3630	-12224	-12296	-12297	-12225	MG	0.00	0.00	100.00
3630	-12296	-12364	-12365	-12297	MG	0.00	0.00	100.00
3630	-12364	-12430	-12431	-12365	MG	0.00	0.00	100.00
3630	-12430	-12510	-12511	-12431	MG	0.00	0.00	100.00
3630	-11743	-11809	-11810	-11744	MG	0.00	0.00	100.00
3630	-11809	-11863	-11877	-11810	MG	0.00	0.00	100.00
3630	-11863	-11937	-11967	-11877	MG	0.00	0.00	100.00
3630	-11937	-12034	-12061	-11967	MG	0.00	0.00	100.00
3630	-12034	-12108	-12109	-12061	MG	0.00	0.00	100.00
3630	-12108	-12225	-12226	-12109	MG	0.00	0.00	100.00
3630	-12225	-12297	-12298	-12226	MG	0.00	0.00	100.00
3630	-12297	-12365	-12366	-12298	MG	0.00	0.00	100.00
3630	-12365	-12431	-12432	-12366	MG	0.00	0.00	100.00
3630	-12431	-12511	-12512	-12432	MG	0.00	0.00	100.00
3630	-11744	-11810	-11811	-11745	MG	0.00	0.00	100.00
3630	-11810	-11877	-11864	-11811	MG	0.00	0.00	100.00
3630	-11877	-11967	-11938	-11864	MG	0.00	0.00	100.00
3630	-11967	-12061	-12020	-11938	MG	0.00	0.00	100.00
3630	-12061	-12109	-12110	-12020	MG	0.00	0.00	100.00
3630	-12109	-12226	-12227	-12110	MG	0.00	0.00	100.00
3630	-12226	-12298	-12299	-12227	MG	0.00	0.00	100.00
3630	-12298	-12366	-12367	-12299	MG	0.00	0.00	100.00
3630	-12366	-12432	-12433	-12367	MG	0.00	0.00	100.00
3630	-12432	-12512	-12513	-12433	MG	0.00	0.00	100.00
3630	-11745	-11811	-11812	-11746	MG	0.00	0.00	100.00
3630	-11811	-11864	-11865	-11812	MG	0.00	0.00	100.00
3630	-11864	-11938	-11996	-11865	MG	0.00	0.00	100.00
3630	-11938	-12020	-12062	-11996	MG	0.00	0.00	100.00
3630	-12020	-12110	-12159	-12062	MG	0.00	0.00	100.00
3630	-12110	-12227	-12228	-12159	MG	0.00	0.00	100.00
3630	-12227	-12299	-12300	-12228	MG	0.00	0.00	100.00

3630	-12299	-12367	-12368	-12300	MG	0.00	0.00	100.00
3630	-12367	-12433	-12434	-12368	MG	0.00	0.00	100.00
3630	-12433	-12513	-12525	-12434	MG	0.00	0.00	100.00
3630	-11746	-11812	-11813	-11747	MG	0.00	0.00	100.00
3630	-11812	-11865	-11878	-11813	MG	0.00	0.00	100.00
3630	-11865	-11996	-11948	-11878	MG	0.00	0.00	100.00
3630	-11996	-12062	-12063	-11948	MG	0.00	0.00	100.00
3630	-12062	-12159	-12170	-12063	MG	0.00	0.00	100.00
3630	-12159	-12228	-12229	-12170	MG	0.00	0.00	100.00
3630	-12228	-12300	-12301	-12229	MG	0.00	0.00	100.00
3630	-12300	-12368	-12369	-12301	MG	0.00	0.00	100.00
3630	-12368	-12434	-12435	-12369	MG	0.00	0.00	100.00
3630	-12434	-12525	-12514	-12435	MG	0.00	0.00	100.00
3630	-11747	-11813	-11814	-11748	MG	0.00	0.00	100.00
3630	-11813	-11878	-11866	-11814	MG	0.00	0.00	100.00
3630	-11878	-11948	-11968	-11866	MG	0.00	0.00	100.00
3630	-11948	-12063	-12035	-11968	MG	0.00	0.00	100.00
3630	-12063	-12170	-12144	-12035	MG	0.00	0.00	100.00
3630	-12170	-12229	-12230	-12144	MG	0.00	0.00	100.00
3630	-12229	-12301	-12302	-12230	MG	0.00	0.00	100.00
3630	-12301	-12369	-12370	-12302	MG	0.00	0.00	100.00
3630	-12369	-12435	-12436	-12370	MG	0.00	0.00	100.00
3630	-12435	-12514	-12515	-12436	MG	0.00	0.00	100.00
3630	-11748	-11814	-11815	-11749	MG	0.00	0.00	100.00
3630	-11814	-11866	-11879	-11815	MG	0.00	0.00	100.00
3630	-11866	-11968	-11969	-11879	MG	0.00	0.00	100.00
3630	-11968	-12035	-12096	-11969	MG	0.00	0.00	100.00
3630	-12035	-12144	-12185	-12096	MG	0.00	0.00	100.00
3630	-12144	-12230	-12231	-12185	MG	0.00	0.00	100.00
3630	-12230	-12302	-12303	-12231	MG	0.00	0.00	100.00
3630	-12302	-12370	-12371	-12303	MG	0.00	0.00	100.00
3630	-12370	-12436	-12437	-12371	MG	0.00	0.00	100.00
3630	-12436	-12515	-12516	-12437	MG	0.00	0.00	100.00
3630	-11749	-11815	-11816	-11750	MG	0.00	0.00	100.00
3630	-11815	-11879	-11880	-11816	MG	0.00	0.00	100.00
3630	-11879	-11969	-11997	-11880	MG	0.00	0.00	100.00
3630	-11969	-12096	-12021	-11997	MG	0.00	0.00	100.00
3630	-12096	-12185	-12111	-12021	MG	0.00	0.00	100.00
3630	-12185	-12231	-12232	-12111	MG	0.00	0.00	100.00
3630	-12231	-12303	-12304	-12232	MG	0.00	0.00	100.00
3630	-12303	-12371	-12372	-12304	MG	0.00	0.00	100.00
3630	-12371	-12437	-12438	-12372	MG	0.00	0.00	100.00
3630	-12437	-12516	-12526	-12438	MG	0.00	0.00	100.00
3630	-11750	-11816	-11817	-11751	MG	0.00	0.00	100.00
3630	-11816	-11880	-11881	-11817	MG	0.00	0.00	100.00
3630	-11880	-11997	-11970	-11881	MG	0.00	0.00	100.00
3630	-11997	-12021	-12064	-11970	MG	0.00	0.00	100.00
3630	-12021	-12111	-12112	-12064	MG	0.00	0.00	100.00
3630	-12111	-12232	-12233	-12112	MG	0.00	0.00	100.00
3630	-12232	-12304	-12305	-12233	MG	0.00	0.00	100.00
3630	-12304	-12372	-12373	-12305	MG	0.00	0.00	100.00
3630	-12372	-12438	-12439	-12373	MG	0.00	0.00	100.00
3630	-12438	-12526	-12527	-12439	MG	0.00	0.00	100.00
3630	-11751	-11817	-11818	-11752	MG	0.00	0.00	100.00
3630	-11817	-11881	-11882	-11818	MG	0.00	0.00	100.00
3630	-11881	-11970	-12009	-11882	MG	0.00	0.00	100.00
3630	-11970	-12064	-12097	-12009	MG	0.00	0.00	100.00
3630	-12064	-12112	-12160	-12097	MG	0.00	0.00	100.00
3630	-12112	-12233	-12234	-12160	MG	0.00	0.00	100.00
3630	-12233	-12305	-12306	-12234	MG	0.00	0.00	100.00
3630	-12305	-12373	-12374	-12306	MG	0.00	0.00	100.00
3630	-12373	-12439	-12440	-12374	MG	0.00	0.00	100.00
3630	-12439	-12527	-12547	-12440	MG	0.00	0.00	100.00
3630	-10277	-10338	-10339	-10278	MG	0.00	0.00	100.00
3630	-10338	-10416	-10417	-10339	MG	0.00	0.00	100.00
3630	-10416	-10486	-10487	-10417	MG	0.00	0.00	100.00
3630	-10486	-10581	-10551	-10487	MG	0.00	0.00	100.00
3630	-10581	-10681	-10693	-10551	MG	0.00	0.00	100.00
3630	-10681	-10772	-10773	-10693	MG	0.00	0.00	100.00
3630	-10772	-10837	-10838	-10773	MG	0.00	0.00	100.00
3630	-10837	-10912	-10913	-10838	MG	0.00	0.00	100.00
3630	-10912	-10979	-10980	-10913	MG	0.00	0.00	100.00
3630	-10979	-11060	-11061	-10980	MG	0.00	0.00	100.00
3630	-10278	-10339	-10340	-10279	MG	0.00	0.00	100.00
3630	-10339	-10417	-10418	-10340	MG	0.00	0.00	100.00
3630	-10417	-10487	-10488	-10418	MG	0.00	0.00	100.00
3630	-10487	-10551	-10540	-10488	MG	0.00	0.00	100.00
3630	-10551	-10693	-10682	-10540	MG	0.00	0.00	100.00
3630	-10693	-10773	-10774	-10682	MG	0.00	0.00	100.00

3630	-10773	-10838	-10839	-10774	MG	0.00	0.00	100.00
3630	-10838	-10913	-10918	-10839	MG	0.00	0.00	100.00
3630	-10913	-10980	-10981	-10918	MG	0.00	0.00	100.00
3630	-10980	-11061	-11062	-10981	MG	0.00	0.00	100.00
3630	-10279	-10340	-10341	-10280	MG	0.00	0.00	100.00
3630	-10340	-10418	-10419	-10341	MG	0.00	0.00	100.00
3630	-10418	-10488	-10489	-10419	MG	0.00	0.00	100.00
3630	-10488	-10540	-10582	-10489	MG	0.00	0.00	100.00
3630	-10540	-10682	-10683	-10582	MG	0.00	0.00	100.00
3630	-10682	-10774	-10775	-10683	MG	0.00	0.00	100.00
3630	-10774	-10839	-10853	-10775	MG	0.00	0.00	100.00
3630	-11899	-12012	-12013	-11891	MG	0.00	0.00	100.00
3630	-10918	-10981	-10982	-10919	MG	0.00	0.00	100.00
3630	-10981	-11062	-11038	-10982	MG	0.00	0.00	100.00
3630	-10280	-10341	-10342	-10281	MG	0.00	0.00	100.00
3630	-10341	-10419	-10420	-10342	MG	0.00	0.00	100.00
3630	-10419	-10489	-10490	-10420	MG	0.00	0.00	100.00
3630	-10489	-10582	-10583	-10490	MG	0.00	0.00	100.00
3630	-10582	-10683	-10694	-10583	MG	0.00	0.00	100.00
3630	-10683	-10775	-10776	-10694	MG	0.00	0.00	100.00
3630	-10775	-10853	-10807	-10776	MG	0.00	0.00	100.00
3630	-10853	-10919	-10920	-10807	MG	0.00	0.00	100.00
3630	-10919	-10982	-10983	-10920	MG	0.00	0.00	100.00
3630	-10982	-11038	-11063	-10983	MG	0.00	0.00	100.00
3630	-10281	-10342	-10343	-10282	MG	0.00	0.00	100.00
3630	-10342	-10420	-10435	-10343	MG	0.00	0.00	100.00
3630	-10420	-10490	-10491	-10435	MG	0.00	0.00	100.00
3630	-10490	-10583	-10584	-10491	MG	0.00	0.00	100.00
3630	-10583	-10694	-10695	-10584	MG	0.00	0.00	100.00
3630	-10694	-10776	-10777	-10695	MG	0.00	0.00	100.00
3630	-10776	-10807	-10840	-10777	MG	0.00	0.00	100.00
3630	-10807	-10920	-10921	-10840	MG	0.00	0.00	100.00
3630	-10920	-10983	-10984	-10921	MG	0.00	0.00	100.00
3630	-10983	-11063	-11050	-10984	MG	0.00	0.00	100.00
3630	-10282	-10343	-10344	-10283	MG	0.00	0.00	100.00
3630	-10343	-10435	-10421	-10344	MG	0.00	0.00	100.00
3630	-10435	-10491	-10492	-10421	MG	0.00	0.00	100.00
3630	-10491	-10584	-10585	-10492	MG	0.00	0.00	100.00
3630	-10584	-10695	-10696	-10585	MG	0.00	0.00	100.00
3630	-10695	-10777	-10778	-10696	MG	0.00	0.00	100.00
3630	-10777	-10840	-10854	-10778	MG	0.00	0.00	100.00
3630	-10840	-10921	-10892	-10854	MG	0.00	0.00	100.00
3630	-10921	-10984	-10985	-10892	MG	0.00	0.00	100.00
3630	-10984	-11050	-11051	-10985	MG	0.00	0.00	100.00
3630	-10283	-10344	-10357	-10284	MG	0.00	0.00	100.00
3630	-10344	-10421	-10436	-10357	MG	0.00	0.00	100.00
3630	-10421	-10492	-10493	-10436	MG	0.00	0.00	100.00
3630	-10492	-10585	-10586	-10493	MG	0.00	0.00	100.00
3630	-10585	-10696	-10684	-10586	MG	0.00	0.00	100.00
3630	-10696	-10778	-10779	-10684	MG	0.00	0.00	100.00
3630	-10778	-10854	-10855	-10779	MG	0.00	0.00	100.00
3630	-10854	-10892	-10922	-10855	MG	0.00	0.00	100.00
3630	-10892	-10985	-10986	-10922	MG	0.00	0.00	100.00
3630	-10985	-11051	-11064	-10986	MG	0.00	0.00	100.00
3630	-10284	-10357	-10345	-10285	MG	0.00	0.00	100.00
3630	-10357	-10436	-10437	-10345	MG	0.00	0.00	100.00
3630	-10436	-10493	-10494	-10437	MG	0.00	0.00	100.00
3630	-10493	-10586	-10610	-10494	MG	0.00	0.00	100.00
3630	-10586	-10684	-10697	-10610	MG	0.00	0.00	100.00
3630	-10684	-10779	-10780	-10697	MG	0.00	0.00	100.00
3630	-10779	-10855	-10856	-10780	MG	0.00	0.00	100.00
3630	-10855	-10922	-10923	-10856	MG	0.00	0.00	100.00
3630	-10922	-10986	-10987	-10923	MG	0.00	0.00	100.00
3630	-10986	-11064	-11065	-10987	MG	0.00	0.00	100.00
3630	-10285	-10345	-10346	-10286	MG	0.00	0.00	100.00
3630	-10345	-10437	-10438	-10346	MG	0.00	0.00	100.00
3630	-10437	-10494	-10495	-10438	MG	0.00	0.00	100.00
3630	-12390	-12456	-12457	-12391	MG	0.00	0.00	100.00
3630	-10610	-10697	-10698	-10552	MG	0.00	0.00	100.00
3630	-10697	-10780	-10781	-10698	MG	0.00	0.00	100.00
3630	-10780	-10856	-10841	-10781	MG	0.00	0.00	100.00
3630	-10856	-10923	-10924	-10841	MG	0.00	0.00	100.00
3630	-10923	-10987	-10988	-10924	MG	0.00	0.00	100.00
3630	-10987	-11065	-11066	-10988	MG	0.00	0.00	100.00
3630	-10286	-10346	-10347	-10287	MG	0.00	0.00	100.00
3630	-10346	-10438	-10439	-10347	MG	0.00	0.00	100.00
3630	-10438	-10495	-10496	-10439	MG	0.00	0.00	100.00
3630	-10495	-10552	-10631	-10496	MG	0.00	0.00	100.00
3630	-10552	-10698	-10699	-10631	MG	0.00	0.00	100.00

3630	-10698	-10781	-10782	-10699	MG	0.00	0.00	100.00
3630	-10781	-10841	-10857	-10782	MG	0.00	0.00	100.00
3630	-10841	-10924	-10925	-10857	MG	0.00	0.00	100.00
3630	-10924	-10988	-10989	-10925	MG	0.00	0.00	100.00
3630	-10988	-11066	-11067	-10989	MG	0.00	0.00	100.00
3630	-10287	-10347	-10358	-10288	MG	0.00	0.00	100.00
3630	-10347	-10439	-10422	-10358	MG	0.00	0.00	100.00
3630	-10439	-10496	-10497	-10422	MG	0.00	0.00	100.00
3630	-10496	-10631	-10587	-10497	MG	0.00	0.00	100.00
3630	-10631	-10699	-10685	-10587	MG	0.00	0.00	100.00
3630	-10699	-10782	-10783	-10685	MG	0.00	0.00	100.00
3630	-10782	-10857	-10808	-10783	MG	0.00	0.00	100.00
3630	-10857	-10925	-10926	-10808	MG	0.00	0.00	100.00
3630	-10925	-10989	-10990	-10926	MG	0.00	0.00	100.00
3630	-10989	-11067	-11068	-10990	MG	0.00	0.00	100.00
3630	-10288	-10358	-10359	3501	MG	0.00	0.00	100.00
3630	-10358	-10422	-10440	-10359	MG	0.00	0.00	100.00
3630	-10422	-10497	-10498	-10440	MG	0.00	0.00	100.00
3630	-10497	-10587	-10588	-10498	MG	0.00	0.00	100.00
3630	-10587	-10685	-10700	-10588	MG	0.00	0.00	100.00
3630	-10685	-10783	-10784	-10700	MG	0.00	0.00	100.00
3630	-10783	-10808	-10842	-10784	MG	0.00	0.00	100.00
3630	-10808	-10926	-10927	-10842	MG	0.00	0.00	100.00
3630	-10926	-10990	-10991	-10927	MG	0.00	0.00	100.00
3630	-10990	-11068	-11069	-10991	MG	0.00	0.00	100.00
3630	-13246	-13315	-13316	-13247	MG	0.00	0.00	100.00
3630	-13315	-13382	-13383	-13316	MG	0.00	0.00	100.00
3630	-13382	-13454	-13455	-13383	MG	0.00	0.00	100.00
3630	-13454	-13524	-13525	-13455	MG	0.00	0.00	100.00
3630	-13524	-13590	-13591	-13525	MG	0.00	0.00	100.00
3630	-13590	-13656	-13657	-13591	MG	0.00	0.00	100.00
3630	-13656	-13722	-13723	-13657	MG	0.00	0.00	100.00
3630	-13722	-13788	-13789	-13723	MG	0.00	0.00	100.00
3630	-13788	-13854	-13855	-13789	MG	0.00	0.00	100.00
3630	-13854	-13922	-13923	-13855	MG	0.00	0.00	100.00
3630	-13247	-13316	-13317	-13248	MG	0.00	0.00	100.00
3630	-13316	-13383	-13384	-13317	MG	0.00	0.00	100.00
3630	-13383	-13455	-13456	-13384	MG	0.00	0.00	100.00
3630	-13455	-13525	-13526	-13456	MG	0.00	0.00	100.00
3630	-13525	-13591	-13592	-13526	MG	0.00	0.00	100.00
3630	-13591	-13657	-13658	-13592	MG	0.00	0.00	100.00
3630	-13657	-13723	-13724	-13658	MG	0.00	0.00	100.00
3630	-13723	-13789	-13790	-13724	MG	0.00	0.00	100.00
3630	-13789	-13855	-13856	-13790	MG	0.00	0.00	100.00
3630	-13855	-13923	-13924	-13856	MG	0.00	0.00	100.00
3630	-13248	-13317	-13318	-13249	MG	0.00	0.00	100.00
3630	-13317	-13384	-13385	-13318	MG	0.00	0.00	100.00
3630	-13384	-13456	-13457	-13385	MG	0.00	0.00	100.00
3630	-13456	-13526	-13527	-13457	MG	0.00	0.00	100.00
3630	-13526	-13592	-13593	-13527	MG	0.00	0.00	100.00
3630	-13592	-13658	-13659	-13593	MG	0.00	0.00	100.00
3630	-13658	-13724	-13725	-13659	MG	0.00	0.00	100.00
3630	-13724	-13790	-13791	-13725	MG	0.00	0.00	100.00
3630	-13790	-13856	-13857	-13791	MG	0.00	0.00	100.00
3630	-13856	-13924	-13925	-13857	MG	0.00	0.00	100.00
3630	-13249	-13318	-13319	-13250	MG	0.00	0.00	100.00
3630	-13318	-13385	-13386	-13319	MG	0.00	0.00	100.00
3630	-13385	-13457	-13458	-13386	MG	0.00	0.00	100.00
3630	-13457	-13527	-13528	-13458	MG	0.00	0.00	100.00
3630	-13527	-13593	-13594	-13528	MG	0.00	0.00	100.00
3630	-13593	-13659	-13660	-13594	MG	0.00	0.00	100.00
3630	-13659	-13725	-13726	-13660	MG	0.00	0.00	100.00
3630	-13725	-13791	-13792	-13726	MG	0.00	0.00	100.00
3630	-13791	-13857	-13858	-13792	MG	0.00	0.00	100.00
3630	-13857	-13925	-13926	-13858	MG	0.00	0.00	100.00
3630	-13250	-13319	-13320	-13251	MG	0.00	0.00	100.00
3630	-13319	-13386	-13387	-13320	MG	0.00	0.00	100.00
3630	-13386	-13458	-13459	-13387	MG	0.00	0.00	100.00
3630	-13458	-13528	-13529	-13459	MG	0.00	0.00	100.00
3630	-13528	-13594	-13595	-13529	MG	0.00	0.00	100.00
3630	-13594	-13660	-13661	-13595	MG	0.00	0.00	100.00
3630	-13660	-13726	-13727	-13661	MG	0.00	0.00	100.00
3630	-13726	-13792	-13793	-13727	MG	0.00	0.00	100.00
3630	-13792	-13858	-13859	-13793	MG	0.00	0.00	100.00
3630	-13858	-13926	-13927	-13859	MG	0.00	0.00	100.00
3630	-13251	-13320	-13321	-13252	MG	0.00	0.00	100.00
3630	-13320	-13387	-13388	-13321	MG	0.00	0.00	100.00
3630	-13387	-13459	-13460	-13388	MG	0.00	0.00	100.00
3630	-13459	-13529	-13530	-13460	MG	0.00	0.00	100.00

3630	-13529	-13595	-13596	-13530	MG	0.00	0.00	100.00
3630	-11481	-11551	-11552	-11482	MG	0.00	0.00	100.00
3630	-13661	-13727	-13728	-13662	MG	0.00	0.00	100.00
3630	-13727	-13793	-13794	-13728	MG	0.00	0.00	100.00
3630	-13793	-13859	-13860	-13794	MG	0.00	0.00	100.00
3630	-13859	-13927	-13928	-13860	MG	0.00	0.00	100.00
3630	-13252	-13321	-13322	-13253	MG	0.00	0.00	100.00
3630	-13321	-13388	-13389	-13322	MG	0.00	0.00	100.00
3630	-13388	-13460	-13461	-13389	MG	0.00	0.00	100.00
3630	-13460	-13530	-13531	-13461	MG	0.00	0.00	100.00
3630	-13530	-13596	-13597	-13531	MG	0.00	0.00	100.00
3630	-13596	-13662	-13663	-13597	MG	0.00	0.00	100.00
3630	-13662	-13728	-13729	-13663	MG	0.00	0.00	100.00
3630	-13728	-13794	-13795	-13729	MG	0.00	0.00	100.00
3630	-13794	-13860	-13861	-13795	MG	0.00	0.00	100.00
3630	-13860	-13928	-13929	-13861	MG	0.00	0.00	100.00
3630	-13253	-13322	-13323	-13254	MG	0.00	0.00	100.00
3630	-13322	-13389	-13390	-13323	MG	0.00	0.00	100.00
3630	-13389	-13461	-13462	-13390	MG	0.00	0.00	100.00
3630	-13461	-13531	-13532	-13462	MG	0.00	0.00	100.00
3630	-13531	-13597	-13598	-13532	MG	0.00	0.00	100.00
3630	-13597	-13663	-13664	-13598	MG	0.00	0.00	100.00
3630	-13663	-13729	-13730	-13664	MG	0.00	0.00	100.00
3630	-13729	-13795	-13796	-13730	MG	0.00	0.00	100.00
3630	-13795	-13861	-13862	-13796	MG	0.00	0.00	100.00
3630	-13861	-13929	-13930	-13862	MG	0.00	0.00	100.00
3630	-13254	-13323	-13324	-13255	MG	0.00	0.00	100.00
3630	-13323	-13390	-13391	-13324	MG	0.00	0.00	100.00
3630	-13390	-13462	-13463	-13391	MG	0.00	0.00	100.00
3630	-13462	-13532	-13533	-13463	MG	0.00	0.00	100.00
3630	-13532	-13598	-13599	-13533	MG	0.00	0.00	100.00
3630	-13598	-13664	-13665	-13599	MG	0.00	0.00	100.00
3630	-13664	-13730	-13731	-13665	MG	0.00	0.00	100.00
3630	-13730	-13796	-13797	-13731	MG	0.00	0.00	100.00
3630	-13796	-13862	-13863	-13797	MG	0.00	0.00	100.00
3630	-13862	-13930	-13931	-13863	MG	0.00	0.00	100.00
3630	-13255	-13324	-13325	-13256	MG	0.00	0.00	100.00
3630	-13324	-13391	-13392	-13325	MG	0.00	0.00	100.00
3630	-13391	-13463	-13464	-13392	MG	0.00	0.00	100.00
3630	-13463	-13533	-13534	-13464	MG	0.00	0.00	100.00
3630	-13533	-13599	-13600	-13534	MG	0.00	0.00	100.00
3630	-13599	-13665	-13666	-13600	MG	0.00	0.00	100.00
3630	-13665	-13731	-13732	-13666	MG	0.00	0.00	100.00
3630	-13731	-13797	-13798	-13732	MG	0.00	0.00	100.00
3630	-13797	-13863	-13864	-13798	MG	0.00	0.00	100.00
3630	-13863	-13931	-13932	-13864	MG	0.00	0.00	100.00
3630	-13256	-13325	-13326	-13257	MG	0.00	0.00	100.00
3630	-13325	-13392	-13393	-13326	MG	0.00	0.00	100.00
3630	-13392	-13464	-13465	-13393	MG	0.00	0.00	100.00
3630	-13464	-13534	-13535	-13465	MG	0.00	0.00	100.00
3630	-13534	-13600	-13601	-13535	MG	0.00	0.00	100.00
3630	-13600	-13666	-13667	-13601	MG	0.00	0.00	100.00
3630	-13666	-13732	-13733	-13667	MG	0.00	0.00	100.00
3630	-13732	-13798	-13799	-13733	MG	0.00	0.00	100.00
3630	-13798	-13864	-13865	-13799	MG	0.00	0.00	100.00
3630	-13864	-13932	-13933	-13865	MG	0.00	0.00	100.00
3630	-13257	-13326	-13327	-13258	MG	0.00	0.00	100.00
3630	-13326	-13393	-13394	-13327	MG	0.00	0.00	100.00
3630	-13393	-13465	-13466	-13394	MG	0.00	0.00	100.00
3630	-13465	-13535	-13536	-13466	MG	0.00	0.00	100.00
3630	-13535	-13601	-13602	-13536	MG	0.00	0.00	100.00
3630	-13601	-13667	-13668	-13602	MG	0.00	0.00	100.00
3630	-13667	-13733	-13734	-13668	MG	0.00	0.00	100.00
3630	-13733	-13799	-13800	-13734	MG	0.00	0.00	100.00
3630	-13799	-13865	-13866	-13800	MG	0.00	0.00	100.00
3630	-13865	-13933	-13934	-13866	MG	0.00	0.00	100.00
3630	-12508	-12592	-12593	-12509	MG	0.00	0.00	100.00
3630	-12592	-12666	-12667	-12593	MG	0.00	0.00	100.00
3630	-12666	-12737	-12738	-12667	MG	0.00	0.00	100.00
3630	-12737	-12807	-12808	-12738	MG	0.00	0.00	100.00
3630	-12807	-12877	-12878	-12808	MG	0.00	0.00	100.00
3630	-12877	-12954	-12955	-12878	MG	0.00	0.00	100.00
3630	-12954	-13038	-13039	-12955	MG	0.00	0.00	100.00
3630	-13038	-13105	-13106	-13039	MG	0.00	0.00	100.00
3630	-13105	-13183	-13184	-13106	MG	0.00	0.00	100.00
3630	-13183	-13246	-13247	-13184	MG	0.00	0.00	100.00
3630	-12509	-12593	-12594	-12510	MG	0.00	0.00	100.00
3630	-12593	-12667	-12668	-12594	MG	0.00	0.00	100.00
3630	-12667	-12738	-12739	-12668	MG	0.00	0.00	100.00



3630	-12738	-12808	-12809	-12739	MG	0.00	0.00	100.00
3630	-12808	-12878	-12879	-12809	MG	0.00	0.00	100.00
3630	-12878	-12955	-12956	-12879	MG	0.00	0.00	100.00
3630	-12955	-13039	-13040	-12956	MG	0.00	0.00	100.00
3630	-13039	-13106	-13107	-13040	MG	0.00	0.00	100.00
3630	-13106	-13184	-13185	-13107	MG	0.00	0.00	100.00
3630	-13184	-13247	-13248	-13185	MG	0.00	0.00	100.00
3630	-12510	-12594	-12595	-12511	MG	0.00	0.00	100.00
3630	-12594	-12668	-12669	-12595	MG	0.00	0.00	100.00
3630	-12668	-12739	-12740	-12669	MG	0.00	0.00	100.00
3630	-12739	-12809	-12810	-12740	MG	0.00	0.00	100.00
3630	-12809	-12879	-12880	-12810	MG	0.00	0.00	100.00
3630	-12879	-12956	-12957	-12880	MG	0.00	0.00	100.00
3630	-12956	-13040	-13041	-12957	MG	0.00	0.00	100.00
3630	-13040	-13107	-13108	-13041	MG	0.00	0.00	100.00
3630	-13107	-13185	-13167	-13108	MG	0.00	0.00	100.00
3630	-13185	-13248	-13249	-13167	MG	0.00	0.00	100.00
3630	-12511	-12595	-12596	-12512	MG	0.00	0.00	100.00
3630	-12595	-12669	-12670	-12596	MG	0.00	0.00	100.00
3630	-12669	-12740	-12741	-12670	MG	0.00	0.00	100.00
3630	-12740	-12810	-12811	-12741	MG	0.00	0.00	100.00
3630	-12810	-12880	-12881	-12811	MG	0.00	0.00	100.00
3630	-12880	-12957	-12968	-12881	MG	0.00	0.00	100.00
3630	-12957	-13041	-13042	-12968	MG	0.00	0.00	100.00
3630	-13041	-13108	-13084	-13042	MG	0.00	0.00	100.00
3630	-13108	-13167	-13186	-13084	MG	0.00	0.00	100.00
3630	-13167	-13249	-13250	-13186	MG	0.00	0.00	100.00
3630	-12512	-12596	-12597	-12513	MG	0.00	0.00	100.00
3630	-12596	-12670	-12671	-12597	MG	0.00	0.00	100.00
3630	-12670	-12741	-12742	-12671	MG	0.00	0.00	100.00
3630	-12741	-12811	-12812	-12742	MG	0.00	0.00	100.00
3630	-12811	-12881	-12882	-12812	MG	0.00	0.00	100.00
3630	-12881	-12968	-12969	-12882	MG	0.00	0.00	100.00
3630	-12968	-13042	-13043	-12969	MG	0.00	0.00	100.00
3630	-13042	-13084	-13109	-13043	MG	0.00	0.00	100.00
3630	-13084	-13186	-13168	-13109	MG	0.00	0.00	100.00
3630	-13186	-13250	-13251	-13168	MG	0.00	0.00	100.00
3630	-12513	-12597	-12598	-12525	MG	0.00	0.00	100.00
3630	-12597	-12671	-12672	-12598	MG	0.00	0.00	100.00
3630	-12671	-12742	-12743	-12672	MG	0.00	0.00	100.00
3630	-12742	-12812	-12813	-12743	MG	0.00	0.00	100.00
3630	-12812	-12882	-12883	-12813	MG	0.00	0.00	100.00
3630	-12882	-12969	-12958	-12883	MG	0.00	0.00	100.00
3630	-12969	-13043	-13044	-12958	MG	0.00	0.00	100.00
3630	-13043	-13109	-13110	-13044	MG	0.00	0.00	100.00
3630	-13109	-13168	-13187	-13110	MG	0.00	0.00	100.00
3630	-13168	-13251	-13252	-13187	MG	0.00	0.00	100.00
3630	-12903	-12983	-12984	-12904	MG	0.00	0.00	100.00
3630	-12598	-12672	-12673	-12599	MG	0.00	0.00	100.00
3630	-12672	-12743	-12744	-12673	MG	0.00	0.00	100.00
3630	-12743	-12813	-12814	-12744	MG	0.00	0.00	100.00
3630	-12813	-12883	-12884	-12814	MG	0.00	0.00	100.00
3630	-12883	-12958	-12959	-12884	MG	0.00	0.00	100.00
3630	-12958	-13044	-13045	-12959	MG	0.00	0.00	100.00
3630	-13044	-13110	-13111	-13045	MG	0.00	0.00	100.00
3630	-13110	-13187	-13188	-13111	MG	0.00	0.00	100.00
3630	-13187	-13252	-13253	-13188	MG	0.00	0.00	100.00
3630	-12514	-12599	-12600	-12515	MG	0.00	0.00	100.00
3630	-12599	-12673	-12674	-12600	MG	0.00	0.00	100.00
3630	-12673	-12744	-12745	-12674	MG	0.00	0.00	100.00
3630	-12744	-12814	-12815	-12745	MG	0.00	0.00	100.00
3630	-12814	-12884	-12885	-12815	MG	0.00	0.00	100.00
3630	-12884	-12959	-12960	-12885	MG	0.00	0.00	100.00
3630	-12959	-13045	-13046	-12960	MG	0.00	0.00	100.00
3630	-13045	-13111	-13112	-13046	MG	0.00	0.00	100.00
3630	-13111	-13188	-13189	-13112	MG	0.00	0.00	100.00
3630	-13188	-13253	-13254	-13189	MG	0.00	0.00	100.00
3630	-12515	-12600	-12601	-12516	MG	0.00	0.00	100.00
3630	-12600	-12674	-12675	-12601	MG	0.00	0.00	100.00
3630	-12674	-12745	-12746	-12675	MG	0.00	0.00	100.00
3630	-12745	-12815	-12816	-12746	MG	0.00	0.00	100.00
3630	-12815	-12885	-12886	-12816	MG	0.00	0.00	100.00
3630	-12885	-12960	-12970	-12886	MG	0.00	0.00	100.00
3630	-12960	-13046	-13047	-12970	MG	0.00	0.00	100.00
3630	-13046	-13112	-13113	-13047	MG	0.00	0.00	100.00
3630	-13112	-13189	-13190	-13113	MG	0.00	0.00	100.00
3630	-13189	-13254	-13255	-13190	MG	0.00	0.00	100.00
3630	-12516	-12601	-12602	-12526	MG	0.00	0.00	100.00
3630	-12601	-12675	-12676	-12602	MG	0.00	0.00	100.00

3630	-12675	-12746	-12747	-12676	MG	0.00	0.00	100.00
3630	-12746	-12816	-12817	-12747	MG	0.00	0.00	100.00
3630	-12816	-12886	-12887	-12817	MG	0.00	0.00	100.00
3630	-12886	-12970	-12961	-12887	MG	0.00	0.00	100.00
3630	-12970	-13047	-13048	-12961	MG	0.00	0.00	100.00
3630	-13047	-13113	-13114	-13048	MG	0.00	0.00	100.00
3630	-13113	-13190	-13169	-13114	MG	0.00	0.00	100.00
3630	-13190	-13255	-13256	-13169	MG	0.00	0.00	100.00
3630	-12526	-12602	-12603	-12527	MG	0.00	0.00	100.00
3630	-12602	-12676	-12677	-12603	MG	0.00	0.00	100.00
3630	-12676	-12747	-12748	-12677	MG	0.00	0.00	100.00
3630	-12747	-12817	-12818	-12748	MG	0.00	0.00	100.00
3630	-12817	-12887	-12888	-12818	MG	0.00	0.00	100.00
3630	-12887	-12961	-12971	-12888	MG	0.00	0.00	100.00
3630	-12961	-13048	-13049	-12971	MG	0.00	0.00	100.00
3630	-13048	-13114	-13115	-13049	MG	0.00	0.00	100.00
3630	-13114	-13169	-13191	-13115	MG	0.00	0.00	100.00
3630	-13169	-13256	-13257	-13191	MG	0.00	0.00	100.00
3630	-12527	-12603	-12604	-12547	MG	0.00	0.00	100.00
3630	-12603	-12677	-12678	-12604	MG	0.00	0.00	100.00
3630	-12677	-12748	-12749	-12678	MG	0.00	0.00	100.00
3630	-12748	-12818	-12819	-12749	MG	0.00	0.00	100.00
3630	-12818	-12888	-12889	-12819	MG	0.00	0.00	100.00
3630	-12888	-12971	-12972	-12889	MG	0.00	0.00	100.00
3630	-12971	-13049	-13050	-12972	MG	0.00	0.00	100.00
3630	-13049	-13115	-13127	-13050	MG	0.00	0.00	100.00
3630	-13115	-13191	-13192	-13127	MG	0.00	0.00	100.00
3630	-13191	-13257	-13258	-13192	MG	0.00	0.00	100.00
3630	-11060	-11122	-11123	-11061	MG	0.00	0.00	100.00
3630	-11122	-11188	-11189	-11123	MG	0.00	0.00	100.00
3630	-11188	-11254	-11255	-11189	MG	0.00	0.00	100.00
3630	-11254	-11326	-11327	-11255	MG	0.00	0.00	100.00
3630	-11326	-11392	-11393	-11327	MG	0.00	0.00	100.00
3630	-11392	-11462	-11463	-11393	MG	0.00	0.00	100.00
3630	-11462	-11532	-11533	-11463	MG	0.00	0.00	100.00
3630	-11532	-11602	-11603	-11533	MG	0.00	0.00	100.00
3630	-11602	-11676	-11677	-11603	MG	0.00	0.00	100.00
3630	-11676	-11740	-11741	-11677	MG	0.00	0.00	100.00
3630	-11061	-11123	-11124	-11062	MG	0.00	0.00	100.00
3630	-11123	-11189	-11190	-11124	MG	0.00	0.00	100.00
3630	-11189	-11255	-11256	-11190	MG	0.00	0.00	100.00
3630	-11255	-11327	-11328	-11256	MG	0.00	0.00	100.00
3630	-11327	-11393	-11394	-11328	MG	0.00	0.00	100.00
3630	-11393	-11463	-11464	-11394	MG	0.00	0.00	100.00
3630	-11463	-11533	-11534	-11464	MG	0.00	0.00	100.00
3630	-11533	-11603	-11604	-11534	MG	0.00	0.00	100.00
3630	-11603	-11677	-11663	-11604	MG	0.00	0.00	100.00
3630	-11677	-11741	-11742	-11663	MG	0.00	0.00	100.00
3630	-11062	-11124	-11125	-11038	MG	0.00	0.00	100.00
3630	-11124	-11190	-11191	-11125	MG	0.00	0.00	100.00
3630	-11190	-11256	-11257	-11191	MG	0.00	0.00	100.00
3630	-11256	-11328	-11329	-11257	MG	0.00	0.00	100.00
3630	-11328	-11394	-11395	-11329	MG	0.00	0.00	100.00
3630	-11394	-11464	-11465	-11395	MG	0.00	0.00	100.00
3630	-11464	-11534	-11535	-11465	MG	0.00	0.00	100.00
3630	-11534	-11604	-11605	-11535	MG	0.00	0.00	100.00
3630	-11604	-11663	-11664	-11605	MG	0.00	0.00	100.00
3630	-11663	-11742	-11743	-11664	MG	0.00	0.00	100.00
3630	-11038	-11125	-11126	-11063	MG	0.00	0.00	100.00
3630	-11125	-11191	-11192	-11126	MG	0.00	0.00	100.00
3630	-11191	-11257	-11258	-11192	MG	0.00	0.00	100.00
3630	-11257	-11329	-11330	-11258	MG	0.00	0.00	100.00
3630	-11329	-11395	-11396	-11330	MG	0.00	0.00	100.00
3630	-11395	-11465	-11466	-11396	MG	0.00	0.00	100.00
3630	-11465	-11535	-11536	-11466	MG	0.00	0.00	100.00
3630	-11535	-11605	-11606	-11536	MG	0.00	0.00	100.00
3630	-11605	-11664	-11678	-11606	MG	0.00	0.00	100.00
3630	-11664	-11743	-11744	-11678	MG	0.00	0.00	100.00
3630	-11063	-11126	-11127	-11050	MG	0.00	0.00	100.00
3630	-11126	-11192	-11193	-11127	MG	0.00	0.00	100.00
3630	-11192	-11258	-11259	-11193	MG	0.00	0.00	100.00
3630	-11258	-11330	-11331	-11259	MG	0.00	0.00	100.00
3630	-11330	-11396	-11397	-11331	MG	0.00	0.00	100.00
3630	-11396	-11466	-11467	-11397	MG	0.00	0.00	100.00
3630	-11466	-11536	-11537	-11467	MG	0.00	0.00	100.00
3630	-11536	-11606	-11607	-11537	MG	0.00	0.00	100.00
3630	-11606	-11678	-11665	-11607	MG	0.00	0.00	100.00
3630	-11678	-11744	-11745	-11665	MG	0.00	0.00	100.00
3630	-11050	-11127	-11128	-11051	MG	0.00	0.00	100.00

3630	-11127	-11193	-11194	-11128	MG	0.00	0.00	100.00
3630	-11193	-11259	-11260	-11194	MG	0.00	0.00	100.00
3630	-11259	-11331	-11332	-11260	MG	0.00	0.00	100.00
3630	-11331	-11397	-11398	-11332	MG	0.00	0.00	100.00
3630	-11397	-11467	-11468	-11398	MG	0.00	0.00	100.00
3630	-11467	-11537	-11538	-11468	MG	0.00	0.00	100.00
3630	-11537	-11607	-11608	-11538	MG	0.00	0.00	100.00
3630	-11607	-11665	-11666	-11608	MG	0.00	0.00	100.00
3630	-11665	-11745	-11746	-11666	MG	0.00	0.00	100.00
3630	-11051	-11128	-11129	-11064	MG	0.00	0.00	100.00
3630	-11128	-11194	-11195	-11129	MG	0.00	0.00	100.00
3630	-11194	-11260	-11261	-11195	MG	0.00	0.00	100.00
3630	-11260	-11332	-11333	-11261	MG	0.00	0.00	100.00
3630	-11332	-11398	-11399	-11333	MG	0.00	0.00	100.00
3630	-11398	-11468	-11469	-11399	MG	0.00	0.00	100.00
3630	-11468	-11538	-11539	-11469	MG	0.00	0.00	100.00
3630	-11538	-11608	-11609	-11539	MG	0.00	0.00	100.00
3630	-11608	-11666	-11679	-11609	MG	0.00	0.00	100.00
3630	-11666	-11746	-11747	-11679	MG	0.00	0.00	100.00
3630	-11064	-11129	-11130	-11065	MG	0.00	0.00	100.00
3630	-11129	-11195	-11196	-11130	MG	0.00	0.00	100.00
3630	-11195	-11261	-11262	-11196	MG	0.00	0.00	100.00
3630	-11261	-11333	-11334	-11262	MG	0.00	0.00	100.00
3630	-11333	-11399	-11400	-11334	MG	0.00	0.00	100.00
3630	-11399	-11469	-11470	-11400	MG	0.00	0.00	100.00
3630	-11469	-11539	-11540	-11470	MG	0.00	0.00	100.00
3630	-11539	-11609	-11610	-11540	MG	0.00	0.00	100.00
3630	-11609	-11679	-11679	-11610	MG	0.00	0.00	100.00
3630	-11679	-11747	-11748	-11667	MG	0.00	0.00	100.00
3630	-11065	-11130	-11131	-11066	MG	0.00	0.00	100.00
3630	-11130	-11196	-11197	-11131	MG	0.00	0.00	100.00
3630	-11196	-11262	-11263	-11197	MG	0.00	0.00	100.00
3630	-11262	-11334	-11335	-11263	MG	0.00	0.00	100.00
3630	-11334	-11400	-11401	-11335	MG	0.00	0.00	100.00
3630	-11400	-11470	-11471	-11401	MG	0.00	0.00	100.00
3630	-11470	-11540	-11541	-11471	MG	0.00	0.00	100.00
3630	-11540	-11610	-11611	-11541	MG	0.00	0.00	100.00
3630	-11610	-11667	-11680	-11611	MG	0.00	0.00	100.00
3630	-11667	-11748	-11749	-11680	MG	0.00	0.00	100.00
3630	-11066	-11131	-11132	-11067	MG	0.00	0.00	100.00
3630	-11131	-11197	-11198	-11132	MG	0.00	0.00	100.00
3630	-11197	-11263	-11264	-11198	MG	0.00	0.00	100.00
3630	-11263	-11335	-11336	-11264	MG	0.00	0.00	100.00
3630	-11335	-11401	-11402	-11336	MG	0.00	0.00	100.00
3630	-11401	-11471	-11472	-11402	MG	0.00	0.00	100.00
3630	-11471	-11541	-11542	-11472	MG	0.00	0.00	100.00
3630	-11541	-11611	-11612	-11542	MG	0.00	0.00	100.00
3630	-11611	-11680	-11681	-11612	MG	0.00	0.00	100.00
3630	-11680	-11749	-11750	-11681	MG	0.00	0.00	100.00
3630	-11067	-11132	-11133	-11068	MG	0.00	0.00	100.00
3630	-11132	-11198	-11199	-11133	MG	0.00	0.00	100.00
3630	-11198	-11264	-11265	-11199	MG	0.00	0.00	100.00
3630	-11264	-11336	-11337	-11265	MG	0.00	0.00	100.00
3630	-11336	-11402	-11403	-11337	MG	0.00	0.00	100.00
3630	-11402	-11472	-11473	-11403	MG	0.00	0.00	100.00
3630	-11472	-11542	-11543	-11473	MG	0.00	0.00	100.00
3630	-11542	-11612	-11613	-11543	MG	0.00	0.00	100.00
3630	-11612	-11681	-11685	-11613	MG	0.00	0.00	100.00
3630	-11681	-11750	-11751	-11685	MG	0.00	0.00	100.00
3630	-11068	-11133	-11134	-11069	MG	0.00	0.00	100.00
3630	-11493	-11563	-11564	-11494	MG	0.00	0.00	100.00
3630	-11199	-11265	-11266	-11200	MG	0.00	0.00	100.00
3630	-11265	-11337	-11338	-11266	MG	0.00	0.00	100.00
3630	-11337	-11403	-11404	-11338	MG	0.00	0.00	100.00
3630	-11345	-11411	-11412	-11346	MG	0.00	0.00	100.00
3630	-11411	-11481	-11482	-11412	MG	0.00	0.00	100.00
3630	-12450	-12535	-12549	-12451	MG	0.00	0.00	100.00
3630	-11551	-11621	-11622	-11552	MG	0.00	0.00	100.00
3630	-11621	-11693	-11694	-11622	MG	0.00	0.00	100.00
3630	-10376	-10426	-10427	-10366	MG	0.00	0.00	100.00
3630	-10426	-10506	-10507	-10427	MG	0.00	0.00	100.00
3630	-14006	-14005	-14063	-14077	MG	0.00	0.00	100.00
3630	-14005	-14004	-14076	-14063	MG	0.00	0.00	100.00
3630	-14077	-14063	-14140	-14141	MG	0.00	0.00	100.00
3630	-14063	-14076	-14139	-14140	MG	0.00	0.00	100.00
3630	-14141	-14140	-14206	-14207	MG	0.00	0.00	100.00
3630	-14140	-14139	-14205	-14206	MG	0.00	0.00	100.00
3630	-14207	-14206	-14272	-14273	MG	0.00	0.00	100.00
3630	-10296	-10366	-10367	-10297	MG	0.00	0.00	100.00

3630	-14273	-14272	-14338	-14339	MG	0.00	0.00	100.00
3630	-10427	-10507	-10508	-10428	MG	0.00	0.00	100.00
3630	-14339	-14338	-14404	-14405	MG	0.00	0.00	100.00
3630	-14338	-14337	-14403	-14404	MG	0.00	0.00	100.00
3630	-14405	-14404	-14470	-14471	MG	0.00	0.00	100.00
3630	-10793	-10863	-10864	-10794	MG	0.00	0.00	100.00
3630	-10863	-10894	-10914	-10864	MG	0.00	0.00	100.00
3630	-10894	-11000	-11001	-10914	MG	0.00	0.00	100.00
3630	-11000	-11078	-11079	-11001	MG	0.00	0.00	100.00
3630	-10297	-10367	-10368	-10298	MG	0.00	0.00	100.00
3630	-15271	-15270	-15336	-15337	MG	0.00	0.00	100.00
3630	-15337	-15336	-15402	-15403	MG	0.00	0.00	100.00
3630	-15403	-15402	-15468	-15469	MG	0.00	0.00	100.00
3630	-10569	-10709	-10710	-10593	MG	0.00	0.00	100.00
3630	-10709	-10794	-10795	-10710	MG	0.00	0.00	100.00
3630	-10794	-10864	-10865	-10795	MG	0.00	0.00	100.00
3630	-10864	-10914	-10935	-10865	MG	0.00	0.00	100.00
3630	-10914	-11001	-11002	-10935	MG	0.00	0.00	100.00
3630	-11001	-11079	-11080	-11002	MG	0.00	0.00	100.00
3630	-10298	-10368	-10369	-10299	MG	0.00	0.00	100.00
3630	-10368	-10429	-10445	-10369	MG	0.00	0.00	100.00
3630	-10429	-10509	-10510	-10445	MG	0.00	0.00	100.00
3630	-10509	-10593	-10619	-10510	MG	0.00	0.00	100.00
3630	-11552	-11622	-11623	-11553	MG	0.00	0.00	100.00
3630	-12248	-12320	-12321	-12249	MG	0.00	0.00	100.00
3630	-11694	-11760	-11761	-11695	MG	0.00	0.00	100.00
3630	-10865	-10935	-10936	-10866	MG	0.00	0.00	100.00
3630	-10935	-11002	-11003	-10936	MG	0.00	0.00	100.00
3630	-11002	-11080	-11081	-11003	MG	0.00	0.00	100.00
3630	-13412	-13484	-13485	-13413	MG	0.00	0.00	100.00
3630	-13484	-13554	-13555	-13485	MG	0.00	0.00	100.00
3630	-12000	-12070	-12023	-11973	MG	0.00	0.00	100.00
3630	-12070	-12165	-12121	-12023	MG	0.00	0.00	100.00
3630	-13686	-13752	-13753	-13687	MG	0.00	0.00	100.00
3630	-10711	-10796	-10797	-10712	MG	0.00	0.00	100.00
3630	-10796	-10866	-10867	-10797	MG	0.00	0.00	100.00
3630	-11079	-11144	-11145	-11080	MG	0.00	0.00	100.00
3630	-13277	-13346	-13347	-13278	MG	0.00	0.00	100.00
3630	-11768	-11834	-11835	-11769	MG	0.00	0.00	100.00
3630	-11834	-11902	-11903	-11835	MG	0.00	0.00	100.00
3630	-10377	-10446	-10447	-10370	MG	0.00	0.00	100.00
3630	-11973	-12023	-12055	-12001	MG	0.00	0.00	100.00
3630	-13621	-13687	-13688	-13622	MG	0.00	0.00	100.00
3630	-10524	-10712	-10713	-10594	MG	0.00	0.00	100.00
3630	-10712	-10797	-10798	-10713	MG	0.00	0.00	100.00
3630	-12322	-12390	-12391	-12323	MG	0.00	0.00	100.00
3630	-13885	-13953	-13954	-13886	MG	0.00	0.00	100.00
3630	-12534	-12612	-12613	-12548	MG	0.00	0.00	100.00
3630	-12612	-12686	-12687	-12613	MG	0.00	0.00	100.00
3630	-10301	-10370	-10371	-10302	MG	0.00	0.00	100.00
3630	-10370	-10447	-10430	-10371	MG	0.00	0.00	100.00
3630	-10447	-10512	-10513	-10430	MG	0.00	0.00	100.00
3630	-10512	-10594	-10595	-10513	MG	0.00	0.00	100.00
3630	-10594	-10713	-10714	-10595	MG	0.00	0.00	100.00
3630	-13058	-13120	-13130	-13059	MG	0.00	0.00	100.00
3630	-13120	-13200	-13201	-13130	MG	0.00	0.00	100.00
3630	-13200	-13266	-13267	-13201	MG	0.00	0.00	100.00
3630	-10938	-11005	-11006	-10939	MG	0.00	0.00	100.00
3630	-11005	-11083	-11084	-11006	MG	0.00	0.00	100.00
3630	-10302	-10371	-10378	-10303	MG	0.00	0.00	100.00
3630	-10371	-10430	-10431	-10378	MG	0.00	0.00	100.00
3630	-10430	-10513	-10514	-10431	MG	0.00	0.00	100.00
3630	-10513	-10595	-10596	-10514	MG	0.00	0.00	100.00
3630	-10595	-10714	-10715	-10596	MG	0.00	0.00	100.00
3630	-10714	-10799	-10800	-10715	MG	0.00	0.00	100.00
3630	-10799	-10868	-10869	-10800	MG	0.00	0.00	100.00
3630	-10868	-10939	-10940	-10869	MG	0.00	0.00	100.00
3630	-12535	-12614	-12615	-12549	MG	0.00	0.00	100.00
3630	-12614	-12688	-12689	-12615	MG	0.00	0.00	100.00
3630	-10303	-10378	-10379	-10304	MG	0.00	0.00	100.00
3630	-10378	-10431	-10448	-10379	MG	0.00	0.00	100.00
3630	-10431	-10514	-10515	-10448	MG	0.00	0.00	100.00
3630	-10514	-10596	-10626	-10515	MG	0.00	0.00	100.00
3630	-12979	-13060	-13061	-12980	MG	0.00	0.00	100.00
3630	-10715	-10800	-10801	-10716	MG	0.00	0.00	100.00
3630	-10800	-10869	-10870	-10801	MG	0.00	0.00	100.00
3630	-10869	-10940	-10941	-10870	MG	0.00	0.00	100.00
3630	-10940	-11007	-11008	-10941	MG	0.00	0.00	100.00
3630	-11007	-11039	-11085	-11008	MG	0.00	0.00	100.00

3630	-10304	-10379	-10372	-10305	MG	0.00	0.00	100.00
3630	-12760	-12830	-12831	-12761	MG	0.00	0.00	100.00
3630	-12830	-12900	-12901	-12831	MG	0.00	0.00	100.00
3630	-12900	-12980	-12981	-12901	MG	0.00	0.00	100.00
3630	-12980	-13061	-13062	-12981	MG	0.00	0.00	100.00
3630	-10716	-10801	-10802	-10686	MG	0.00	0.00	100.00
3630	-10801	-10870	-10871	-10802	MG	0.00	0.00	100.00
3630	-10870	-10941	-10942	-10871	MG	0.00	0.00	100.00
3630	-10941	-11008	-11009	-10942	MG	0.00	0.00	100.00
3630	-12616	-12690	-12691	-12617	MG	0.00	0.00	100.00
3630	-10305	-10372	-10380	-10306	MG	0.00	0.00	100.00
3630	-10372	-10449	-10450	-10380	MG	0.00	0.00	100.00
3630	-12831	-12901	-12902	-12832	MG	0.00	0.00	100.00
3630	-12901	-12981	-12982	-12902	MG	0.00	0.00	100.00
3630	-10597	-10686	-10717	-10598	MG	0.00	0.00	100.00
3630	-10686	-10802	-10803	-10717	MG	0.00	0.00	100.00
3630	-10802	-10871	-10872	-10803	MG	0.00	0.00	100.00
3630	-10871	-10942	-10943	-10872	MG	0.00	0.00	100.00
3630	-10942	-11009	-11010	-10943	MG	0.00	0.00	100.00
3630	-11009	-11086	-11087	-11010	MG	0.00	0.00	100.00
3630	-12691	-12762	-12763	-12692	MG	0.00	0.00	100.00
3630	-12762	-12832	-12833	-12763	MG	0.00	0.00	100.00
3630	-10450	-10517	-10518	-10451	MG	0.00	0.00	100.00
3630	-10517	-10598	-10627	-10518	MG	0.00	0.00	100.00
3630	-10598	-10717	-10718	-10627	MG	0.00	0.00	100.00
3630	-10717	-10803	-10804	-10718	MG	0.00	0.00	100.00
3630	-10803	-10872	-10873	-10804	MG	0.00	0.00	100.00
3630	-10872	-10943	-10944	-10873	MG	0.00	0.00	100.00
3630	-10943	-11010	-11011	-10944	MG	0.00	0.00	100.00
3630	-11010	-11087	-11088	-11011	MG	0.00	0.00	100.00
3630	-11760	-11826	-11827	-11761	MG	0.00	0.00	100.00
3630	-11826	-11898	-11899	-11827	MG	0.00	0.00	100.00
3630	-12833	-12903	-12904	-12834	MG	0.00	0.00	100.00
3630	-11940	-12053	-12068	-12011	MG	0.00	0.00	100.00
3630	-12053	-12163	-12146	-12068	MG	0.00	0.00	100.00
3630	-12163	-12242	-12243	-12146	MG	0.00	0.00	100.00
3630	-12242	-12314	-12315	-12243	MG	0.00	0.00	100.00
3630	-12314	-12382	-12383	-12315	MG	0.00	0.00	100.00
3630	-12382	-12448	-12449	-12383	MG	0.00	0.00	100.00
3630	-12448	-12534	-12548	-12449	MG	0.00	0.00	100.00
3630	-11761	-11827	-11828	-11762	MG	0.00	0.00	100.00
3630	-11827	-11889	-11890	-11828	MG	0.00	0.00	100.00
3630	-12834	-12904	-12905	-12835	MG	0.00	0.00	100.00
3630	-12011	-12068	-12022	-11983	MG	0.00	0.00	100.00
3630	-12068	-12146	-12164	-12022	MG	0.00	0.00	100.00
3630	-13065	-13135	-13136	-13066	MG	0.00	0.00	100.00
3630	-13135	-13207	-13208	-13136	MG	0.00	0.00	100.00
3630	-13207	-13273	-13274	-13208	MG	0.00	0.00	100.00
3630	-12550	-12620	-12621	-12540	MG	0.00	0.00	100.00
3630	-12449	-12548	-12535	-12450	MG	0.00	0.00	100.00
3630	-11762	-11828	-11829	-11763	MG	0.00	0.00	100.00
3630	-12765	-12835	-12836	-12766	MG	0.00	0.00	100.00
3630	-11890	-11983	-12012	-11899	MG	0.00	0.00	100.00
3630	-12905	-12985	-12986	-12906	MG	0.00	0.00	100.00
3630	-12022	-12164	-12171	-12101	MG	0.00	0.00	100.00
3630	-12164	-12244	-12245	-12171	MG	0.00	0.00	100.00
3630	-13136	-13208	-13209	-13137	MG	0.00	0.00	100.00
3630	-13208	-13274	-13275	-13209	MG	0.00	0.00	100.00
3630	-12384	-12450	-12451	-12385	MG	0.00	0.00	100.00
3630	-12621	-12695	-12696	-12622	MG	0.00	0.00	100.00
3630	-11763	-11829	-11830	-11764	MG	0.00	0.00	100.00
3630	-11829	-11899	-11891	-11830	MG	0.00	0.00	100.00
3630	-12836	-12906	-12907	-12837	MG	0.00	0.00	100.00
3630	-12906	-12986	-12987	-12907	MG	0.00	0.00	100.00
3630	-12986	-13067	-13068	-12987	MG	0.00	0.00	100.00
3630	-13067	-13137	-13138	-13068	MG	0.00	0.00	100.00
3630	-12245	-12317	-12318	-12246	MG	0.00	0.00	100.00
3630	-12317	-12385	-12386	-12318	MG	0.00	0.00	100.00
3630	-12385	-12451	-12452	-12386	MG	0.00	0.00	100.00
3630	-12451	-12549	-12536	-12452	MG	0.00	0.00	100.00
3630	-11764	-11830	-11831	-11765	MG	0.00	0.00	100.00
3630	-11830	-11891	-11892	-11831	MG	0.00	0.00	100.00
3630	-11891	-12013	-11998	-11892	MG	0.00	0.00	100.00
3630	-12013	-12054	-12069	-11998	MG	0.00	0.00	100.00
3630	-12054	-12115	-12187	-12069	MG	0.00	0.00	100.00
3630	-12115	-12246	-12247	-12187	MG	0.00	0.00	100.00
3630	-13138	-13210	-13211	-13139	MG	0.00	0.00	100.00
3630	-12318	-12386	-12387	-12319	MG	0.00	0.00	100.00
3630	-12542	-12623	-12624	-12543	MG	0.00	0.00	100.00

3630	-12452	-12536	-12537	-12453	MG	0.00	0.00	100.00
3630	-11765	-11831	-11832	-11766	MG	0.00	0.00	100.00
3630	-11831	-11892	-11900	-11832	MG	0.00	0.00	100.00
3630	-12838	-12908	-12909	-12839	MG	0.00	0.00	100.00
3630	-11998	-12069	-12102	-11999	MG	0.00	0.00	100.00
3630	-12069	-12187	-12120	-12102	MG	0.00	0.00	100.00
3630	-12187	-12247	-12248	-12120	MG	0.00	0.00	100.00
3630	-12247	-12319	-12320	-12248	MG	0.00	0.00	100.00
3630	-12319	-12387	-12388	-12320	MG	0.00	0.00	100.00
3630	-12387	-12453	-12454	-12388	MG	0.00	0.00	100.00
3630	-11142	-11208	-11209	-11143	MG	0.00	0.00	100.00
3630	-11208	-11274	-11275	-11209	MG	0.00	0.00	100.00
3630	-11274	-11346	-11347	-11275	MG	0.00	0.00	100.00
3630	-11346	-11412	-11413	-11347	MG	0.00	0.00	100.00
3630	-11999	-12102	-12070	-12000	MG	0.00	0.00	100.00
3630	-11482	-11552	-11553	-11483	MG	0.00	0.00	100.00
3630	-13268	-13337	-13338	-13269	MG	0.00	0.00	100.00
3630	-11622	-11694	-11695	-11623	MG	0.00	0.00	100.00
3630	-13404	-13476	-13477	-13405	MG	0.00	0.00	100.00
3630	-12388	-12454	-12455	-12389	MG	0.00	0.00	100.00
3630	-12454	-12538	-12539	-12455	MG	0.00	0.00	100.00
3630	-11209	-11275	-11276	-11210	MG	0.00	0.00	100.00
3630	-11275	-11347	-11348	-11276	MG	0.00	0.00	100.00
3630	-11901	-12000	-11973	-11902	MG	0.00	0.00	100.00
3630	-11413	-11483	-11484	-11414	MG	0.00	0.00	100.00
3630	-11483	-11553	-11554	-11484	MG	0.00	0.00	100.00
3630	-12165	-12249	-12250	-12121	MG	0.00	0.00	100.00
3630	-12249	-12321	-12322	-12250	MG	0.00	0.00	100.00
3630	-12321	-12389	-12390	-12322	MG	0.00	0.00	100.00
3630	-13477	-13547	-13548	-13478	MG	0.00	0.00	100.00
3630	-11144	-11210	-11211	-11145	MG	0.00	0.00	100.00
3630	-11210	-11276	-11277	-11211	MG	0.00	0.00	100.00
3630	-11276	-11348	-11349	-11277	MG	0.00	0.00	100.00
3630	-11902	-11973	-12001	-11903	MG	0.00	0.00	100.00
3630	-11414	-11484	-11485	-11415	MG	0.00	0.00	100.00
3630	-12023	-12121	-12188	-12055	MG	0.00	0.00	100.00
3630	-12121	-12250	-12251	-12188	MG	0.00	0.00	100.00
3630	-12250	-12322	-12323	-12251	MG	0.00	0.00	100.00
3630	-11696	-11762	-11763	-11697	MG	0.00	0.00	100.00
3630	-11080	-11145	-11146	-11081	MG	0.00	0.00	100.00
3630	-12456	-12550	-12540	-12457	MG	0.00	0.00	100.00
3630	-11211	-11277	-11278	-11212	MG	0.00	0.00	100.00
3630	-11277	-11349	-11350	-11278	MG	0.00	0.00	100.00
3630	-11349	-11415	-11416	-11350	MG	0.00	0.00	100.00
3630	-12001	-12055	-12024	-11941	MG	0.00	0.00	100.00
3630	-11485	-11555	-11556	-11486	MG	0.00	0.00	100.00
3630	-12188	-12251	-12252	-12122	MG	0.00	0.00	100.00
3630	-12251	-12323	-12324	-12252	MG	0.00	0.00	100.00
3630	-12323	-12391	-12392	-12324	MG	0.00	0.00	100.00
3630	-12391	-12457	-12458	-12392	MG	0.00	0.00	100.00
3630	-12457	-12540	-12541	-12458	MG	0.00	0.00	100.00
3630	-11770	-11836	-11837	-11771	MG	0.00	0.00	100.00
3630	-11836	-11904	-11905	-11837	MG	0.00	0.00	100.00
3630	-11904	-11941	-12002	-11905	MG	0.00	0.00	100.00
3630	-11416	-11486	-11487	-11417	MG	0.00	0.00	100.00
3630	-11486	-11556	-11557	-11487	MG	0.00	0.00	100.00
3630	-12122	-12252	-12253	-12172	MG	0.00	0.00	100.00
3630	-11626	-11698	-11699	-11627	MG	0.00	0.00	100.00
3630	-11698	-11764	-11765	-11699	MG	0.00	0.00	100.00
3630	-11082	-11147	-11148	-11083	MG	0.00	0.00	100.00
3630	-11147	-11213	-11214	-11148	MG	0.00	0.00	100.00
3630	-11213	-11279	-11280	-11214	MG	0.00	0.00	100.00
3630	-11279	-11351	-11352	-11280	MG	0.00	0.00	100.00
3630	-11905	-12002	-12003	-11906	MG	0.00	0.00	100.00
3630	-12002	-12071	-12072	-12003	MG	0.00	0.00	100.00
3630	-12071	-12172	-12173	-12072	MG	0.00	0.00	100.00
3630	-12172	-12253	-12254	-12173	MG	0.00	0.00	100.00
3630	-12253	-12325	-12326	-12254	MG	0.00	0.00	100.00
3630	-11699	-11765	-11766	-11700	MG	0.00	0.00	100.00
3630	-11083	-11148	-11149	-11084	MG	0.00	0.00	100.00
3630	-11148	-11214	-11215	-11149	MG	0.00	0.00	100.00
3630	-13266	-13335	-13336	-13267	MG	0.00	0.00	100.00
3630	-13335	-13402	-13403	-13336	MG	0.00	0.00	100.00
3630	-13402	-13474	-13475	-13403	MG	0.00	0.00	100.00
3630	-13474	-13544	-13545	-13475	MG	0.00	0.00	100.00
3630	-13544	-13610	-13611	-13545	MG	0.00	0.00	100.00
3630	-11558	-11628	-11629	-11559	MG	0.00	0.00	100.00
3630	-11628	-11700	-11701	-11629	MG	0.00	0.00	100.00
3630	-13742	-13808	-13809	-13743	MG	0.00	0.00	100.00

3630	-13808	-13874	-13875	-13809	MG	0.00	0.00	100.00
3630	-13874	-13942	-13943	-13875	MG	0.00	0.00	100.00
3630	-13267	-13336	-13337	-13268	MG	0.00	0.00	100.00
3630	-13336	-13403	-13404	-13337	MG	0.00	0.00	100.00
3630	-13403	-13475	-13476	-13404	MG	0.00	0.00	100.00
3630	-13475	-13545	-13546	-13476	MG	0.00	0.00	100.00
3630	-13545	-13611	-13612	-13546	MG	0.00	0.00	100.00
3630	-13611	-13677	-13678	-13612	MG	0.00	0.00	100.00
3630	-13677	-13743	-13744	-13678	MG	0.00	0.00	100.00
3630	-11701	-11767	-11768	-11702	MG	0.00	0.00	100.00
3630	-11039	-11150	-11151	-11085	MG	0.00	0.00	100.00
3630	-11150	-11216	-11217	-11151	MG	0.00	0.00	100.00
3630	-12537	-12617	-12618	-12538	MG	0.00	0.00	100.00
3630	-13337	-13404	-13405	-13338	MG	0.00	0.00	100.00
3630	-11282	-11354	-11355	-11283	MG	0.00	0.00	100.00
3630	-11420	-11490	-11491	-11421	MG	0.00	0.00	100.00
3630	-11490	-11560	-11561	-11491	MG	0.00	0.00	100.00
3630	-11560	-11630	-11631	-11561	MG	0.00	0.00	100.00
3630	-11630	-11702	-11703	-11631	MG	0.00	0.00	100.00
3630	-11702	-11768	-11769	-11703	MG	0.00	0.00	100.00
3630	-13810	-13876	-13877	-13811	MG	0.00	0.00	100.00
3630	-11151	-11217	-11218	-11152	MG	0.00	0.00	100.00
3630	-13269	-13338	-13339	-13270	MG	0.00	0.00	100.00
3630	-13338	-13405	-13406	-13339	MG	0.00	0.00	100.00
3630	-11355	-11421	-11422	-11356	MG	0.00	0.00	100.00
3630	-13818	-13884	-13885	-13819	MG	0.00	0.00	100.00
3630	-13547	-13613	-13614	-13548	MG	0.00	0.00	100.00
3630	-13613	-13679	-13680	-13614	MG	0.00	0.00	100.00
3630	-11631	-11703	-11704	-11632	MG	0.00	0.00	100.00
3630	-13745	-13811	-13812	-13746	MG	0.00	0.00	100.00
3630	-11086	-11152	-11153	-11087	MG	0.00	0.00	100.00
3630	-13877	-13945	-13946	-13878	MG	0.00	0.00	100.00
3630	-13270	-13339	-13340	-13271	MG	0.00	0.00	100.00
3630	-13339	-13406	-13407	-13340	MG	0.00	0.00	100.00
3630	-11356	-11422	-11423	-11357	MG	0.00	0.00	100.00
3630	-11422	-11492	-11493	-11423	MG	0.00	0.00	100.00
3630	-13548	-13614	-13615	-13549	MG	0.00	0.00	100.00
3630	-13614	-13680	-13681	-13615	MG	0.00	0.00	100.00
3630	-13680	-13746	-13747	-13681	MG	0.00	0.00	100.00
3630	-13746	-13812	-13813	-13747	MG	0.00	0.00	100.00
3630	-13812	-13878	-13879	-13813	MG	0.00	0.00	100.00
3630	-13878	-13946	-13947	-13879	MG	0.00	0.00	100.00
3630	-13271	-13340	-13341	-13272	MG	0.00	0.00	100.00
3630	-13340	-13407	-13408	-13341	MG	0.00	0.00	100.00
3630	-13407	-13479	-13480	-13408	MG	0.00	0.00	100.00
3630	-13479	-13549	-13550	-13480	MG	0.00	0.00	100.00
3630	-13549	-13615	-13616	-13550	MG	0.00	0.00	100.00
3630	-13615	-13681	-13682	-13616	MG	0.00	0.00	100.00
3630	-13681	-13747	-13748	-13682	MG	0.00	0.00	100.00
3630	-13747	-13813	-13814	-13748	MG	0.00	0.00	100.00
3630	-12758	-12828	-12829	-12759	MG	0.00	0.00	100.00
3630	-12540	-12621	-12622	-12541	MG	0.00	0.00	100.00
3630	-12898	-12978	-12979	-12899	MG	0.00	0.00	100.00
3630	-12695	-12766	-12767	-12696	MG	0.00	0.00	100.00
3630	-13408	-13480	-13481	-13409	MG	0.00	0.00	100.00
3630	-11693	-11759	-11760	-11694	MG	0.00	0.00	100.00
3630	-13550	-13616	-13617	-13551	MG	0.00	0.00	100.00
3630	-13935	-13934	-14004	-14005	MG	0.00	0.00	100.00
3630	-11347	-11413	-11414	-11348	MG	0.00	0.00	100.00
3630	-13137	-13209	-13210	-13138	MG	0.00	0.00	100.00
3630	-13209	-13275	-13276	-13210	MG	0.00	0.00	100.00
3630	-13880	-13948	-13949	-13881	MG	0.00	0.00	100.00
3630	-13273	-13342	-13343	-13274	MG	0.00	0.00	100.00
3630	-12696	-12767	-12768	-12697	MG	0.00	0.00	100.00
3630	-14206	-14205	-14271	-14272	MG	0.00	0.00	100.00
3630	-13481	-13551	-13552	-13482	MG	0.00	0.00	100.00
3630	-13551	-13617	-13618	-13552	MG	0.00	0.00	100.00
3630	-12987	-13068	-13069	-12988	MG	0.00	0.00	100.00
3630	-13068	-13138	-13139	-13069	MG	0.00	0.00	100.00
3630	-11280	-11352	-11353	-11281	MG	0.00	0.00	100.00
3630	-13815	-13881	-13882	-13816	MG	0.00	0.00	100.00
3630	-13881	-13949	-13950	-13882	MG	0.00	0.00	100.00
3630	-13274	-13343	-13344	-13275	MG	0.00	0.00	100.00
3630	-13343	-13410	-13411	-13344	MG	0.00	0.00	100.00
3630	-13410	-13482	-13483	-13411	MG	0.00	0.00	100.00
3630	-13482	-13552	-13553	-13483	MG	0.00	0.00	100.00
3630	-12908	-12988	-12989	-12909	MG	0.00	0.00	100.00
3630	-12988	-13069	-13070	-12989	MG	0.00	0.00	100.00
3630	-13684	-13750	-13751	-13685	MG	0.00	0.00	100.00

3630	-15535	-15534	-15600	-15601	MG	0.00	0.00	100.00
3630	-13816	-13882	-13883	-13817	MG	0.00	0.00	100.00
3630	-13882	-13950	-13951	-13883	MG	0.00	0.00	100.00
3630	-15733	-15732	-15798	-15799	MG	0.00	0.00	100.00
3630	-15799	-15798	-15864	-15865	MG	0.00	0.00	100.00
3630	-15865	-15864	-15931	-15932	MG	0.00	0.00	100.00
3630	-13483	-13553	-13554	-13484	MG	0.00	0.00	100.00
3630	-11412	-11482	-11483	-11413	MG	0.00	0.00	100.00
3630	-12687	-12758	-12759	-12688	MG	0.00	0.00	100.00
3630	-12617	-12691	-12692	-12618	MG	0.00	0.00	100.00
3630	-11216	-11282	-11283	-11217	MG	0.00	0.00	100.00
3630	-11354	-11420	-11421	-11355	MG	0.00	0.00	100.00
3630	-11078	-11143	-11144	-11079	MG	0.00	0.00	100.00
3630	-11143	-11209	-11210	-11144	MG	0.00	0.00	100.00
3630	-13345	-13412	-13413	-13346	MG	0.00	0.00	100.00
3630	-13063	-13133	-13134	-13064	MG	0.00	0.00	100.00
3630	-12984	-13065	-13066	-12985	MG	0.00	0.00	100.00
3630	-13205	-13271	-13272	-13206	MG	0.00	0.00	100.00
3630	-12538	-12618	-12619	-12539	MG	0.00	0.00	100.00
3630	-11553	-11623	-11624	-11554	MG	0.00	0.00	100.00
3630	-11623	-11695	-11696	-11624	MG	0.00	0.00	100.00
3630	-12763	-12833	-12834	-12764	MG	0.00	0.00	100.00
3630	-11421	-11491	-11492	-11422	MG	0.00	0.00	100.00
3630	-11491	-11561	-11562	-11492	MG	0.00	0.00	100.00
3630	-12983	-13064	-13065	-12984	MG	0.00	0.00	100.00
3630	-13064	-13134	-13135	-13065	MG	0.00	0.00	100.00
3630	-13485	-13555	-13556	-13486	MG	0.00	0.00	100.00
3630	-13206	-13272	-13273	-13207	MG	0.00	0.00	100.00
3630	-11484	-11554	-11555	-11485	MG	0.00	0.00	100.00
3630	-11554	-11624	-11625	-11555	MG	0.00	0.00	100.00
3630	-11624	-11696	-11697	-11625	MG	0.00	0.00	100.00
3630	-12764	-12834	-12835	-12765	MG	0.00	0.00	100.00
3630	-12623	-12697	-12698	-12624	MG	0.00	0.00	100.00
3630	-11145	-11211	-11212	-11146	MG	0.00	0.00	100.00
3630	-13201	-13267	-13268	-13202	MG	0.00	0.00	100.00
3630	-12686	-12757	-12758	-12687	MG	0.00	0.00	100.00
3630	-12757	-12827	-12828	-12758	MG	0.00	0.00	100.00
3630	-11415	-11485	-11486	-11416	MG	0.00	0.00	100.00
3630	-11153	-11219	-11220	-11154	MG	0.00	0.00	100.00
3630	-11555	-11625	-11626	-11556	MG	0.00	0.00	100.00
3630	-11625	-11697	-11698	-11626	MG	0.00	0.00	100.00
3630	-11697	-11763	-11764	-11698	MG	0.00	0.00	100.00
3630	-11081	-11146	-11147	-11082	MG	0.00	0.00	100.00
3630	-12548	-12613	-12614	-12549	MG	0.00	0.00	100.00
3630	-12613	-12687	-12688	-12614	MG	0.00	0.00	100.00
3630	-13204	-13270	-13271	-13205	MG	0.00	0.00	100.00
3630	-11705	-11771	-11772	-11682	MG	0.00	0.00	100.00
3630	-12828	-12898	-12899	-12829	MG	0.00	0.00	100.00
3630	-11350	-11416	-11417	-11351	MG	0.00	0.00	100.00
3630	-12978	-13059	-13060	-12979	MG	0.00	0.00	100.00
3630	-11556	-11626	-11627	-11557	MG	0.00	0.00	100.00
3630	-12766	-12836	-12837	-12767	MG	0.00	0.00	100.00
3630	-13061	-13131	-13132	-13062	MG	0.00	0.00	100.00
3630	-13131	-13203	-13204	-13132	MG	0.00	0.00	100.00
3630	-13133	-13205	-13206	-13134	MG	0.00	0.00	100.00
3630	-12688	-12759	-12760	-12689	MG	0.00	0.00	100.00
3630	-12759	-12829	-12830	-12760	MG	0.00	0.00	100.00
3630	-12829	-12899	-12900	-12830	MG	0.00	0.00	100.00
3630	-12899	-12979	-12980	-12900	MG	0.00	0.00	100.00
3630	-11557	-11627	-11628	-11558	MG	0.00	0.00	100.00
3630	-13060	-13121	-13131	-13061	MG	0.00	0.00	100.00
3630	-13121	-13202	-13203	-13131	MG	0.00	0.00	100.00
3630	-13202	-13268	-13269	-13203	MG	0.00	0.00	100.00
3630	-12549	-12615	-12616	-12536	MG	0.00	0.00	100.00
3630	-12615	-12689	-12690	-12616	MG	0.00	0.00	100.00
3630	-11214	-11280	-11281	-11215	MG	0.00	0.00	100.00
3630	-11352	-11418	-11419	-11353	MG	0.00	0.00	100.00
3630	-11418	-11488	-11489	-11419	MG	0.00	0.00	100.00
3630	-11488	-11558	-11559	-11489	MG	0.00	0.00	100.00
3630	-11284	-11356	-11357	-11285	MG	0.00	0.00	100.00
3630	-12902	-12982	-12983	-12903	MG	0.00	0.00	100.00
3630	-12982	-13063	-13064	-12983	MG	0.00	0.00	100.00
3630	-13203	-13269	-13270	-13204	MG	0.00	0.00	100.00
3630	-12536	-12616	-12617	-12537	MG	0.00	0.00	100.00
3630	-11215	-11281	-11282	-11216	MG	0.00	0.00	100.00
3630	-12690	-12761	-12762	-12691	MG	0.00	0.00	100.00
3630	-12761	-12831	-12832	-12762	MG	0.00	0.00	100.00
3630	-11419	-11489	-11490	-11420	MG	0.00	0.00	100.00
3630	-11489	-11559	-11560	-11490	MG	0.00	0.00	100.00



3630	-12981	-13062	-13063	-12982	MG	0.00	0.00	100.00
3630	-13062	-13132	-13133	-13063	MG	0.00	0.00	100.00
3630	-13132	-13204	-13205	-13133	MG	0.00	0.00	100.00
3630	-12985	-13066	-13067	-12986	MG	0.00	0.00	100.00
3630	-13066	-13136	-13137	-13067	MG	0.00	0.00	100.00
3630	-11278	-11350	-11351	-11279	MG	0.00	0.00	100.00
3630	-11633	-11705	-11682	-11634	MG	0.00	0.00	100.00
3630	-12619	-12693	-12694	-12620	MG	0.00	0.00	100.00
3630	-12832	-12902	-12903	-12833	MG	0.00	0.00	100.00
3630	-14471	-14470	-14536	-14537	MG	0.00	0.00	100.00
3630	-14404	-14403	-14469	-14470	MG	0.00	0.00	100.00
3630	-12904	-12984	-12985	-12905	MG	0.00	0.00	100.00
3630	-11492	-11562	-11563	-11493	MG	0.00	0.00	100.00
3630	-11632	-11704	-11705	-11633	MG	0.00	0.00	100.00
3630	-11085	-11151	-11152	-11086	MG	0.00	0.00	100.00
3630	-12618	-12692	-12693	-12619	MG	0.00	0.00	100.00
3630	-12692	-12763	-12764	-12693	MG	0.00	0.00	100.00
3630	-11283	-11355	-11356	-11284	MG	0.00	0.00	100.00
3630	-11695	-11761	-11762	-11696	MG	0.00	0.00	100.00
3630	-11487	-11557	-11558	-11488	MG	0.00	0.00	100.00
3630	-12767	-12837	-12838	-12768	MG	0.00	0.00	100.00
3630	-11561	-11631	-11632	-11562	MG	0.00	0.00	100.00
3630	-13134	-13206	-13207	-13135	MG	0.00	0.00	100.00
3630	-11348	-11414	-11415	-11349	MG	0.00	0.00	100.00
3630	-12539	-12619	-12620	-12550	MG	0.00	0.00	100.00
3630	-11563	-11633	-11634	-11564	MG	0.00	0.00	100.00
3630	-12693	-12764	-12765	-12694	MG	0.00	0.00	100.00
3630	-13210	-13276	-13277	-13211	MG	0.00	0.00	100.00
3630	-11218	-11284	-11285	-11219	MG	0.00	0.00	100.00
3630	-12835	-12905	-12906	-12836	MG	0.00	0.00	100.00
3630	-12697	-12768	-12769	-12698	MG	0.00	0.00	100.00
3630	-12768	-12838	-12839	-12769	MG	0.00	0.00	100.00
3630	-11704	-11770	-11771	-11705	MG	0.00	0.00	100.00
3630	-11087	-11153	-11154	-11088	MG	0.00	0.00	100.00
3630	-13069	-13139	-13140	-13070	MG	0.00	0.00	100.00
3630	-12620	-12694	-12695	-12621	MG	0.00	0.00	100.00
3630	-12694	-12765	-12766	-12695	MG	0.00	0.00	100.00
3630	-11357	-11423	-11424	-11358	MG	0.00	0.00	100.00
3630	-11077	-11142	-11143	-11078	MG	0.00	0.00	100.00
3630	-11423	-11493	-11494	-11424	MG	0.00	0.00	100.00
3630	-11629	-11701	-11702	-11630	MG	0.00	0.00	100.00
3630	-15272	-15271	-15337	-15338	MG	0.00	0.00	100.00
3630	-11212	-11278	-11279	-11213	MG	0.00	0.00	100.00
3630	-11703	-11769	-11770	-11704	MG	0.00	0.00	100.00
3630	-11351	-11417	-11418	-11352	MG	0.00	0.00	100.00
3630	-12541	-12622	-12623	-12542	MG	0.00	0.00	100.00
3630	-11152	-11218	-11219	-11153	MG	0.00	0.00	100.00
3630	-11417	-11487	-11488	-11418	MG	0.00	0.00	100.00
3630	-15667	-15666	-15732	-15733	MG	0.00	0.00	100.00
3630	-12837	-12907	-12908	-12838	MG	0.00	0.00	100.00
3630	-11700	-11766	-11767	-11701	MG	0.00	0.00	100.00
3630	-11084	-11149	-11150	-11039	MG	0.00	0.00	100.00
3630	-11149	-11215	-11216	-11150	MG	0.00	0.00	100.00
3630	-14536	-14535	-14605	-14606	MG	0.00	0.00	100.00
3630	-13139	-13211	-13212	-13140	MG	0.00	0.00	100.00
3630	-12622	-12696	-12697	-12623	MG	0.00	0.00	100.00
3630	-11281	-11353	-11354	-11282	MG	0.00	0.00	100.00
3630	-11219	-11285	-11286	-11220	MG	0.00	0.00	100.00
3630	-11559	-11629	-11630	-11560	MG	0.00	0.00	100.00
3630	-12907	-12987	-12988	-12908	MG	0.00	0.00	100.00
3630	-14272	-14271	-14337	-14338	MG	0.00	0.00	100.00
3630	-11562	-11632	-11633	-11563	MG	0.00	0.00	100.00
3630	-11146	-11212	-11213	-11147	MG	0.00	0.00	100.00
3630	-11285	-11357	-11358	-11286	MG	0.00	0.00	100.00
3630	-13211	-13277	-13278	-13212	MG	0.00	0.00	100.00
3630	-14537	-14536	-14606	-14607	MG	0.00	0.00	100.00
3630	-15601	-15600	-15666	-15667	MG	0.00	0.00	100.00
3630	-15469	-15468	-15534	-15535	MG	0.00	0.00	100.00
3630	-14470	-14469	-14535	-14536	MG	0.00	0.00	100.00
3630	-11217	-11283	-11284	-11218	MG	0.00	0.00	100.00
3630	-11353	-11419	-11420	-11354	MG	0.00	0.00	100.00
3630	-11627	-11699	-11700	-11628	MG	0.00	0.00	100.00

**Elenco carichi elementi bidimensionali**

**Condizione di carico n. 4: Variabili impalc. (pieno)**

**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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3584	-15772	-15838	-15837	-15771	MG	0.00	0.00	500.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	500.00
3584	-15178	-15245	-15244	-15177	MG	0.00	0.00	500.00
3584	-15245	-15311	-15310	-15244	MG	0.00	0.00	500.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	500.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	500.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	500.00
3584	-15044	-15113	-15112	-15043	MG	0.00	0.00	500.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	500.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	500.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	500.00
3584	-14647	-14713	-14712	-14646	MG	0.00	0.00	500.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	500.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	500.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	500.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	500.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	500.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	500.00
3584	-14179	-14245	-14244	-14178	MG	0.00	0.00	500.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	500.00
3584	-14978	-15044	-15043	-14977	MG	0.00	0.00	500.00
3584	-13441	-13511	-13510	-13440	MG	0.00	0.00	500.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	500.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	500.00
3584	-16302	-16368	-16367	-16301	MG	0.00	0.00	500.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	500.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	500.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	500.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	500.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	500.00
3584	-15905	-15971	-15970	-15904	MG	0.00	0.00	500.00
3584	-13775	-13841	-13840	-13774	MG	0.00	0.00	500.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	500.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	500.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	500.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	500.00
3584	-14714	-14780	-14779	-14713	MG	0.00	0.00	500.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	500.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	500.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	500.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	500.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	500.00
3584	-12863	-12941	-12940	-12862	MG	0.00	0.00	500.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	500.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	500.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	500.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	500.00
3584	-14911	-14977	-14976	-14910	MG	0.00	0.00	500.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	500.00
3584	-14846	-14912	-14911	-14845	MG	0.00	0.00	500.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	500.00
3584	-14845	-14911	-14910	-14844	MG	0.00	0.00	500.00
3584	-15043	-15112	-15111	-15042	MG	0.00	0.00	500.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	500.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	500.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	500.00
3584	-14245	-14311	-14310	-14244	MG	0.00	0.00	500.00
3584	-15244	-15310	-15309	-15243	MG	0.00	0.00	500.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	500.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	500.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	500.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	500.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	500.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	500.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	500.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	500.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	500.00
3584	-14580	-14648	-14647	-14579	MG	0.00	0.00	500.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	500.00
3584	-15839	-15906	-15905	-15838	MG	0.00	0.00	500.00
3584	-11933	-12058	-12051	-11932	MG	0.00	0.00	500.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	500.00
3584	-16235	-16301	-16300	-16234	MG	0.00	0.00	500.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	500.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	500.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	500.00
3584	-15640	-15706	-15705	-15639	MG	0.00	0.00	500.00
3584	-14780	-14846	-14845	-14779	MG	0.00	0.00	500.00
3584	-11792	-11854	-11853	-11791	MG	0.00	0.00	500.00

3584	-11854	-11932	-11991	-11853	MG	0.00	0.00	500.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	500.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	500.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	500.00
3584	-14114	-14180	-14179	-14113	MG	0.00	0.00	500.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	500.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	500.00
3584	-14312	-14378	-14377	-14311	MG	0.00	0.00	500.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	500.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	500.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	500.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	500.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	500.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	500.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	500.00
3584	-15177	-15244	-15243	-15176	MG	0.00	0.00	500.00
3584	-14509	-14579	-14578	-14508	MG	0.00	0.00	500.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	500.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	500.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	500.00
3584	-16236	-16302	-16301	-16235	MG	0.00	0.00	500.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	500.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	500.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	500.00
3584	-12348	-12414	-12413	-12347	MG	0.00	0.00	500.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	500.00
3584	-10965	-11053	-11036	-10964	MG	0.00	0.00	500.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	500.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	500.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	500.00
3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	500.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	500.00
3584	-12349	-12415	-12414	-12348	MG	0.00	0.00	500.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	500.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	500.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	500.00
3584	-12793	-12863	-12862	-12792	MG	0.00	0.00	500.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	500.00
3584	-15977	-15976	-15910	-15911	MG	0.00	0.00	500.00
3584	-13511	-13577	-13576	-13510	MG	0.00	0.00	500.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	500.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	500.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	500.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	500.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	500.00
3584	-13909	-13979	-13978	-13908	MG	0.00	0.00	500.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	500.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	500.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	500.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	500.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	500.00
3584	-11656	-11727	-11726	-11655	MG	0.00	0.00	500.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	500.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	500.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	500.00
3584	-11240	-11312	-11311	-11239	MG	0.00	0.00	500.00
3584	-10403	-10472	-10471	-10402	MG	0.00	0.00	500.00
3584	-10472	-10616	-10538	-10471	MG	0.00	0.00	500.00
3584	-11448	-11518	-11517	-11447	MG	0.00	0.00	500.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	500.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	500.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	500.00
3584	-10902	-10965	-10964	-10901	MG	0.00	0.00	500.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	500.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	500.00
3584	-10962	-10963	-10900	-10899	MG	0.00	0.00	500.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	500.00
3584	-16040	-16039	-15973	-15974	MG	0.00	0.00	500.00
3584	-12209	-12281	-12280	-12208	MG	0.00	0.00	500.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	500.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	500.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	500.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	500.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	500.00
3584	-10836	-10835	-10770	-10771	MG	0.00	0.00	500.00
3584	-15174	-15175	-15110	-15109	MG	0.00	0.00	500.00
3584	-15040	-15041	-14975	-14974	MG	0.00	0.00	500.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	500.00
3584	-14776	-14777	-14711	-14710	MG	0.00	0.00	500.00

3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	500.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	500.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	500.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	500.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	500.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	500.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	500.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	500.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	500.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	500.00
3584	-16310	-16309	-16243	-16244	MG	0.00	0.00	500.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	500.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	500.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	500.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	500.00
3584	-16049	-16048	-15982	-15983	MG	0.00	0.00	500.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	500.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	500.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	500.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	500.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	500.00
3584	-12411	-12412	-12346	-12345	MG	0.00	0.00	500.00
3584	-16566	-16599	-16598	-16565	MG	0.00	0.00	500.00
3584	-11053	-11108	-11107	-11036	MG	0.00	0.00	500.00
3584	-11990	-11959	-11852	-11895	MG	0.00	0.00	500.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	500.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	500.00
3584	-12806	-12805	-12735	-12736	MG	0.00	0.00	500.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	500.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	500.00
3584	-16433	-16499	-16498	-16432	MG	0.00	0.00	500.00
3584	-16181	-16180	-16114	-16115	MG	0.00	0.00	500.00
3584	-12801	-12800	-12730	-12731	MG	0.00	0.00	500.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	500.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	500.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	500.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	500.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	500.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	500.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	500.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	500.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	500.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	500.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	500.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	500.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	500.00
3584	-12728	-12727	-12656	-12657	MG	0.00	0.00	500.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	500.00
3584	-13774	-13840	-13839	-13773	MG	0.00	0.00	500.00
3584	-13840	-13908	-13907	-13839	MG	0.00	0.00	500.00
3584	-11657	-11656	-11589	-11590	MG	0.00	0.00	500.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	500.00
3584	-12663	-12662	-12588	-12589	MG	0.00	0.00	500.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	500.00
3584	-15443	-15509	-15508	-15442	MG	0.00	0.00	500.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	500.00
3584	-16500	-16566	-16565	-16499	MG	0.00	0.00	500.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	500.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	500.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	500.00
3584	-12655	-12654	-12580	-12581	MG	0.00	0.00	500.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	500.00
3584	-10669	-10653	-10545	-10564	MG	0.00	0.00	500.00
3584	-10469	-10470	-10401	-10400	MG	0.00	0.00	500.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	500.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	500.00
3584	-12282	-12281	-12209	-12210	MG	0.00	0.00	500.00
3584	-12210	-12209	-12182	-12183	MG	0.00	0.00	500.00
3584	-12183	-12182	-12058	-12032	MG	0.00	0.00	500.00
3584	-12032	-12058	-11933	-11960	MG	0.00	0.00	500.00
3584	-11960	-11933	-11855	-11856	MG	0.00	0.00	500.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	500.00
3584	-12581	-12580	-12496	-12497	MG	0.00	0.00	500.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	500.00
3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	500.00
3584	-16496	-16497	-16431	-16430	MG	0.00	0.00	500.00
3584	-16364	-16365	-16299	-16298	MG	0.00	0.00	500.00
3584	-16232	-16233	-16167	-16166	MG	0.00	0.00	500.00
3584	-16100	-16101	-16035	-16034	MG	0.00	0.00	500.00

3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	500.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	500.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	500.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	500.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	500.00
3584	-12418	-12417	-12351	-12352	MG	0.00	0.00	500.00
3584	-12352	-12351	-12283	-12284	MG	0.00	0.00	500.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	500.00
3584	-12212	-12211	-12106	-12151	MG	0.00	0.00	500.00
3584	-12151	-12106	-12033	-12088	MG	0.00	0.00	500.00
3584	-12088	-12033	-11934	-11935	MG	0.00	0.00	500.00
3584	-11935	-11934	-11896	-11857	MG	0.00	0.00	500.00
3584	-11857	-11896	-11795	-11796	MG	0.00	0.00	500.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	500.00
3584	-12499	-12498	-12418	-12419	MG	0.00	0.00	500.00
3584	-10824	-10902	-10901	-10823	MG	0.00	0.00	500.00
3584	-12353	-12352	-12284	-12285	MG	0.00	0.00	500.00
3584	-12285	-12284	-12212	-12213	MG	0.00	0.00	500.00
3584	-12213	-12212	-12151	-12107	MG	0.00	0.00	500.00
3584	-12107	-12151	-12088	-12089	MG	0.00	0.00	500.00
3584	-12089	-12088	-11935	-11961	MG	0.00	0.00	500.00
3584	-11961	-11935	-11857	-11897	MG	0.00	0.00	500.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	500.00
3584	-12584	-12583	-12499	-12500	MG	0.00	0.00	500.00
3584	-12500	-12499	-12419	-12420	MG	0.00	0.00	500.00
3584	-12420	-12419	-12353	-12354	MG	0.00	0.00	500.00
3584	-12354	-12353	-12285	-12286	MG	0.00	0.00	500.00
3584	-12286	-12285	-12213	-12214	MG	0.00	0.00	500.00
3584	-12214	-12213	-12107	-12152	MG	0.00	0.00	500.00
3584	-12152	-12107	-12089	-12090	MG	0.00	0.00	500.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	500.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	500.00
3584	-11858	-11897	-11797	-11798	MG	0.00	0.00	500.00
3584	-12585	-12584	-12500	-12501	MG	0.00	0.00	500.00
3584	-12501	-12500	-12420	-12421	MG	0.00	0.00	500.00
3584	-12421	-12420	-12354	-12355	MG	0.00	0.00	500.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	500.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	500.00
3584	-12215	-12214	-12152	-12118	MG	0.00	0.00	500.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	500.00
3584	-13440	-13510	-13509	-13439	MG	0.00	0.00	500.00
3584	-11936	-11962	-11858	-11871	MG	0.00	0.00	500.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	500.00
3584	-12727	-12726	-12655	-12656	MG	0.00	0.00	500.00
3584	-12502	-12501	-12421	-12422	MG	0.00	0.00	500.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	500.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	500.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	500.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	500.00
3584	-11378	-11448	-11447	-11377	MG	0.00	0.00	500.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	500.00
3584	-15835	-15836	-15770	-15769	MG	0.00	0.00	500.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	500.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	500.00
3584	-15439	-15440	-15374	-15373	MG	0.00	0.00	500.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	500.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	500.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	500.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	500.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	500.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	500.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	500.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	500.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	500.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	500.00
3584	-14644	-14645	-14577	-14576	MG	0.00	0.00	500.00
3584	-15307	-15308	-15242	-15241	MG	0.00	0.00	500.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	500.00
3584	-14242	-14243	-14177	-14176	MG	0.00	0.00	500.00
3584	-14908	-14909	-14843	-14842	MG	0.00	0.00	500.00
3584	-11789	-11790	-11724	-11723	MG	0.00	0.00	500.00
3584	-11652	-11653	-11586	-11585	MG	0.00	0.00	500.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	500.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	500.00
3584	-11237	-11238	-11172	-11171	MG	0.00	0.00	500.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	500.00
3584	-13161	-13162	-13094	-13093	MG	0.00	0.00	500.00
3584	-13021	-13022	-12939	-12938	MG	0.00	0.00	500.00
3584	-12860	-12861	-12791	-12790	MG	0.00	0.00	500.00

3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	500.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	500.00
3584	-13975	-13976	-13906	-13905	MG	0.00	0.00	500.00
3584	-13837	-13838	-13772	-13771	MG	0.00	0.00	500.00
3584	-13705	-13706	-13640	-13639	MG	0.00	0.00	500.00
3584	-13573	-13574	-13508	-13507	MG	0.00	0.00	500.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	500.00
3584	-11732	-11731	-11659	-11671	MG	0.00	0.00	500.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	500.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	500.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	500.00
3584	-12419	-12418	-12352	-12353	MG	0.00	0.00	500.00
3584	-12575	-12576	-12493	-12492	MG	0.00	0.00	500.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	500.00
3584	-12277	-12278	-12206	-12205	MG	0.00	0.00	500.00
3584	-12105	-12168	-12017	-12086	MG	0.00	0.00	500.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	500.00
3584	-16103	-16169	-16168	-16102	MG	0.00	0.00	500.00
3584	-12865	-12864	-12794	-12795	MG	0.00	0.00	500.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	500.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	500.00
3584	-12804	-12803	-12733	-12734	MG	0.00	0.00	500.00
3584	-12803	-12802	-12732	-12733	MG	0.00	0.00	500.00
3584	-12802	-12801	-12731	-12732	MG	0.00	0.00	500.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	500.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	500.00
3584	-10967	-10966	-10890	-10903	MG	0.00	0.00	500.00
3584	-12941	-13024	-13023	-12940	MG	0.00	0.00	500.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	500.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	500.00
3584	-10672	-10671	-10576	-10565	MG	0.00	0.00	500.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	500.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	500.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	500.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	500.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	500.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	500.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	500.00
3584	-11519	-11589	-11588	-11518	MG	0.00	0.00	500.00
3584	-11589	-11656	-11655	-11588	MG	0.00	0.00	500.00
3584	-10673	-10672	-10565	-10577	MG	0.00	0.00	500.00
3584	-10577	-10565	-10474	-10475	MG	0.00	0.00	500.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	500.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	500.00
3584	-11112	-11111	-11045	-11046	MG	0.00	0.00	500.00
3584	-11312	-11378	-11377	-11311	MG	0.00	0.00	500.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	500.00
3584	-10905	-10904	-10827	-10828	MG	0.00	0.00	500.00
3584	-11518	-11588	-11587	-11517	MG	0.00	0.00	500.00
3584	-15575	-15641	-15640	-15574	MG	0.00	0.00	500.00
3584	-10674	-10673	-10577	-10539	MG	0.00	0.00	500.00
3584	-11726	-11792	-11791	-11725	MG	0.00	0.00	500.00
3584	-11793	-11855	-11854	-11792	MG	0.00	0.00	500.00
3584	-11855	-11933	-11932	-11854	MG	0.00	0.00	500.00
3584	-11113	-11112	-11046	-11047	MG	0.00	0.00	500.00
3584	-15310	-15376	-15375	-15309	MG	0.00	0.00	500.00
3584	-12182	-12209	-12208	-12141	MG	0.00	0.00	500.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	500.00
3584	-10829	-10828	-10762	-10763	MG	0.00	0.00	500.00
3584	-10763	-10762	-10674	-10675	MG	0.00	0.00	500.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	500.00
3584	-12524	-12579	-12578	-12495	MG	0.00	0.00	500.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	500.00
3584	-10408	-10407	-10354	-10355	MG	0.00	0.00	500.00
3584	-11856	-11855	-11793	-11794	MG	0.00	0.00	500.00
3584	-11037	-11047	-10970	-10971	MG	0.00	0.00	500.00
3584	-12497	-12496	-12416	-12417	MG	0.00	0.00	500.00
3584	-16595	-16596	-16563	-16562	MG	0.00	0.00	500.00
3584	-10830	-10829	-10763	-10764	MG	0.00	0.00	500.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	500.00
3584	-12414	-12495	-12494	-12413	MG	0.00	0.00	500.00
3584	-12495	-12578	-12577	-12494	MG	0.00	0.00	500.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	500.00
3584	-10434	-10408	-10355	-10331	MG	0.00	0.00	500.00
3584	-11115	-11114	-11037	-11048	MG	0.00	0.00	500.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	500.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	500.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	500.00
3584	-10852	-10830	-10764	-10765	MG	0.00	0.00	500.00

3584	-12284	-12283	-12211	-12212	MG	0.00	0.00	500.00
3584	-10677	-10676	-10566	-10550	MG	0.00	0.00	500.00
3584	-16307	-16306	-16240	-16241	MG	0.00	0.00	500.00
3584	-10329	-10403	-10402	-10352	MG	0.00	0.00	500.00
3584	-10409	-10434	-10331	-10332	MG	0.00	0.00	500.00
3584	-16304	-16303	-16237	-16238	MG	0.00	0.00	500.00
3584	-12583	-12582	-12498	-12499	MG	0.00	0.00	500.00
3584	-10973	-10972	-10907	-10908	MG	0.00	0.00	500.00
3584	-16247	-16246	-16180	-16181	MG	0.00	0.00	500.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	500.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	500.00
3584	-16244	-16243	-16177	-16178	MG	0.00	0.00	500.00
3584	-10567	-10550	-10479	-10480	MG	0.00	0.00	500.00
3584	-10480	-10479	-10409	-10410	MG	0.00	0.00	500.00
3584	-16241	-16240	-16174	-16175	MG	0.00	0.00	500.00
3584	-11897	-11857	-11796	-11797	MG	0.00	0.00	500.00
3584	-11055	-11049	-10973	-10974	MG	0.00	0.00	500.00
3584	-16238	-16237	-16171	-16172	MG	0.00	0.00	500.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	500.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	500.00
3584	-10767	-10766	-10654	-10678	MG	0.00	0.00	500.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	500.00
3584	-10630	-10567	-10480	-10481	MG	0.00	0.00	500.00
3584	-16178	-16177	-16111	-16112	MG	0.00	0.00	500.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	500.00
3584	-11118	-11117	-11055	-11056	MG	0.00	0.00	500.00
3584	-16175	-16174	-16108	-16109	MG	0.00	0.00	500.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	500.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	500.00
3584	-16172	-16171	-16105	-16106	MG	0.00	0.00	500.00
3584	-10768	-10767	-10678	-10691	MG	0.00	0.00	500.00
3584	-10691	-10678	-10630	-10578	MG	0.00	0.00	500.00
3584	-16115	-16114	-16048	-16049	MG	0.00	0.00	500.00
3584	-11105	-11106	-11035	-11034	MG	0.00	0.00	500.00
3584	-10412	-10411	-10356	-10334	MG	0.00	0.00	500.00
3584	-16112	-16111	-16045	-16046	MG	0.00	0.00	500.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	500.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	500.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	500.00
3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	500.00
3584	-10769	-10768	-10691	-10692	MG	0.00	0.00	500.00
3584	-16106	-16105	-16039	-16040	MG	0.00	0.00	500.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	500.00
3584	-15968	-15969	-15903	-15902	MG	0.00	0.00	500.00
3584	-10413	-10412	-10334	-10335	MG	0.00	0.00	500.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	500.00
3584	-15571	-15572	-15506	-15505	MG	0.00	0.00	500.00
3584	-16046	-16045	-15979	-15980	MG	0.00	0.00	500.00
3584	-10917	-10910	-10834	-10835	MG	0.00	0.00	500.00
3584	-10835	-10834	-10769	-10770	MG	0.00	0.00	500.00
3584	-16043	-16042	-15976	-15977	MG	0.00	0.00	500.00
3584	-10821	-10822	-10756	-10755	MG	0.00	0.00	500.00
3584	-16041	-16040	-15974	-15975	MG	0.00	0.00	500.00
3584	-10484	-10483	-10413	-10414	MG	0.00	0.00	500.00
3584	-16039	-16038	-15972	-15973	MG	0.00	0.00	500.00
3584	-11121	-11120	-11058	-11059	MG	0.00	0.00	500.00
3584	-11059	-11058	-10977	-10978	MG	0.00	0.00	500.00
3584	-10978	-10977	-10917	-10911	MG	0.00	0.00	500.00
3584	-10911	-10917	-10835	-10836	MG	0.00	0.00	500.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	500.00
3584	-10771	-10770	-10679	-10680	MG	0.00	0.00	500.00
3584	-14912	-14978	-14977	-14911	MG	0.00	0.00	500.00
3584	-10580	-10568	-10484	-10485	MG	0.00	0.00	500.00
3584	-10485	-10484	-10414	-10415	MG	0.00	0.00	500.00
3584	-15113	-15178	-15177	-15112	MG	0.00	0.00	500.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	500.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	500.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	500.00
3584	-14713	-14779	-14778	-14712	MG	0.00	0.00	500.00
3584	-14779	-14845	-14844	-14778	MG	0.00	0.00	500.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	500.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	500.00
3584	-14977	-15043	-15042	-14976	MG	0.00	0.00	500.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	500.00
3584	-15112	-15177	-15176	-15111	MG	0.00	0.00	500.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	500.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	500.00
3584	-15972	-16038	-16037	-15971	MG	0.00	0.00	500.00
3584	-13437	-13438	-13366	-13365	MG	0.00	0.00	500.00

3584	-16104	-16170	-16169	-16103	MG	0.00	0.00	500.00
3584	-16170	-16236	-16235	-16169	MG	0.00	0.00	500.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	500.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	500.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	500.00
3584	-16434	-16500	-16499	-16433	MG	0.00	0.00	500.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	500.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	500.00
3584	-15971	-16037	-16036	-15970	MG	0.00	0.00	500.00
3584	-16037	-16103	-16102	-16036	MG	0.00	0.00	500.00
3584	-12866	-12865	-12795	-12796	MG	0.00	0.00	500.00
3584	-16169	-16235	-16234	-16168	MG	0.00	0.00	500.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	500.00
3584	-12805	-12804	-12734	-12735	MG	0.00	0.00	500.00
3584	-16367	-16433	-16432	-16366	MG	0.00	0.00	500.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	500.00
3584	-16499	-16565	-16564	-16498	MG	0.00	0.00	500.00
3584	-16565	-16598	-16597	-16564	MG	0.00	0.00	500.00
3584	-13302	-13369	-13368	-13301	MG	0.00	0.00	500.00
3584	-13369	-13441	-13440	-13368	MG	0.00	0.00	500.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	500.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	500.00
3584	-13577	-13643	-13642	-13576	MG	0.00	0.00	500.00
3584	-13643	-13709	-13708	-13642	MG	0.00	0.00	500.00
3584	-13709	-13775	-13774	-13708	MG	0.00	0.00	500.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	500.00
3584	-13841	-13909	-13908	-13840	MG	0.00	0.00	500.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	500.00
3584	-13301	-13368	-13367	-13300	MG	0.00	0.00	500.00
3584	-13368	-13440	-13439	-13367	MG	0.00	0.00	500.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	500.00
3584	-13510	-13576	-13575	-13509	MG	0.00	0.00	500.00
3584	-13576	-13642	-13641	-13575	MG	0.00	0.00	500.00
3584	-13642	-13708	-13707	-13641	MG	0.00	0.00	500.00
3584	-13708	-13774	-13773	-13707	MG	0.00	0.00	500.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	500.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	500.00
3584	-13908	-13978	-13977	-13907	MG	0.00	0.00	500.00
3584	-15311	-15377	-15376	-15310	MG	0.00	0.00	500.00
3584	-15377	-15443	-15442	-15376	MG	0.00	0.00	500.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	500.00
3584	-15509	-15575	-15574	-15508	MG	0.00	0.00	500.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	500.00
3584	-15641	-15707	-15706	-15640	MG	0.00	0.00	500.00
3584	-15707	-15773	-15772	-15706	MG	0.00	0.00	500.00
3584	-15773	-15839	-15838	-15772	MG	0.00	0.00	500.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	500.00
3584	-15906	-15972	-15971	-15905	MG	0.00	0.00	500.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	500.00
3584	-15376	-15442	-15441	-15375	MG	0.00	0.00	500.00
3584	-15442	-15508	-15507	-15441	MG	0.00	0.00	500.00
3584	-15508	-15574	-15573	-15507	MG	0.00	0.00	500.00
3584	-15574	-15640	-15639	-15573	MG	0.00	0.00	500.00
3584	-15825	-15892	-15891	-15824	MG	0.00	0.00	500.00
3584	-15706	-15772	-15771	-15705	MG	0.00	0.00	500.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	500.00
3584	-15838	-15905	-15904	-15837	MG	0.00	0.00	500.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	500.00
3584	-13979	-14069	-14045	-13978	MG	0.00	0.00	500.00
3584	-14069	-14114	-14113	-14045	MG	0.00	0.00	500.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	500.00
3584	-14180	-14246	-14245	-14179	MG	0.00	0.00	500.00
3584	-14246	-14312	-14311	-14245	MG	0.00	0.00	500.00
3584	-15824	-15891	-15890	-15823	MG	0.00	0.00	500.00
3584	-14378	-14444	-14443	-14377	MG	0.00	0.00	500.00
3584	-14444	-14510	-14509	-14443	MG	0.00	0.00	500.00
3584	-14510	-14580	-14579	-14509	MG	0.00	0.00	500.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	500.00
3584	-13978	-14045	-14044	-13977	MG	0.00	0.00	500.00
3584	-14045	-14113	-14112	-14044	MG	0.00	0.00	500.00
3584	-14113	-14179	-14178	-14112	MG	0.00	0.00	500.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	500.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	500.00
3584	-14311	-14377	-14376	-14310	MG	0.00	0.00	500.00
3584	-14377	-14443	-14442	-14376	MG	0.00	0.00	500.00
3584	-14443	-14509	-14508	-14442	MG	0.00	0.00	500.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	500.00
3584	-14579	-14647	-14646	-14578	MG	0.00	0.00	500.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	500.00



3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	500.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	500.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	500.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	500.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	500.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	500.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	500.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	500.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	500.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	500.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	500.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	500.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	500.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	500.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	500.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	500.00
3584	-12090	-12089	-11961	-11962	MG	0.00	0.00	500.00
3584	-11962	-11961	-11897	-11858	MG	0.00	0.00	500.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	500.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	500.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	500.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	500.00
3584	-12355	-12354	-12286	-12287	MG	0.00	0.00	500.00
3584	-12287	-12286	-12214	-12215	MG	0.00	0.00	500.00
3584	-16468	-16467	-16533	-16534	MG	0.00	0.00	500.00
3584	-12118	-12152	-12090	-12091	MG	0.00	0.00	500.00
3584	-12091	-12090	-11962	-11936	MG	0.00	0.00	500.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	500.00
3584	-11871	-11858	-11798	-11799	MG	0.00	0.00	500.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	500.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	500.00
3584	-16109	-16108	-16042	-16043	MG	0.00	0.00	500.00
3584	-10834	-10833	-10768	-10769	MG	0.00	0.00	500.00
3584	-16403	-16402	-16468	-16469	MG	0.00	0.00	500.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	500.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	500.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	500.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	500.00
3584	-15703	-15704	-15638	-15637	MG	0.00	0.00	500.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	500.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	500.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	500.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	500.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	500.00
3584	-16536	-16535	-16601	-16602	MG	0.00	0.00	500.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	500.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	500.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	500.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	500.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	500.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	500.00
3584	-14506	-14507	-14441	-14440	MG	0.00	0.00	500.00
3584	-14374	-14375	-14309	-14308	MG	0.00	0.00	500.00
3584	-16471	-16470	-16536	-16537	MG	0.00	0.00	500.00
3584	-14110	-14111	-14043	-14042	MG	0.00	0.00	500.00
3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	500.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	500.00
3584	-11515	-11516	-11446	-11445	MG	0.00	0.00	500.00
3584	-11375	-11376	-11310	-11309	MG	0.00	0.00	500.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	500.00
3584	-13298	-13299	-13230	-13229	MG	0.00	0.00	500.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	500.00
3584	-16406	-16405	-16471	-16472	MG	0.00	0.00	500.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	500.00
3584	-12720	-12721	-12650	-12649	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	500.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	500.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	500.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	500.00
3584	-16038	-16104	-16103	-16037	MG	0.00	0.00	500.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	500.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	500.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	500.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	500.00
3584	-16368	-16434	-16433	-16367	MG	0.00	0.00	500.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	500.00
3584	-12653	-12724	-12723	-12652	MG	0.00	0.00	500.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	500.00

3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	500.00
3584	-12864	-12942	-12941	-12863	MG	0.00	0.00	500.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	500.00
3584	-13025	-13095	-13125	-13024	MG	0.00	0.00	500.00
3584	-13095	-13164	-13163	-13125	MG	0.00	0.00	500.00
3584	-16301	-16367	-16366	-16300	MG	0.00	0.00	500.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	500.00
3584	-11966	-11993	-11874	-11875	MG	0.00	0.00	500.00
3584	-11875	-11874	-11804	-11805	MG	0.00	0.00	500.00
3584	-10470	-10471	-10402	-10401	MG	0.00	0.00	500.00
3584	-10400	-10401	-10328	-10327	MG	0.00	0.00	500.00
3584	-10401	-10402	-10352	-10328	MG	0.00	0.00	500.00
3584	-10653	-10670	-10538	-10545	MG	0.00	0.00	500.00
3584	-10564	-10545	-10470	-10469	MG	0.00	0.00	500.00
3584	-10545	-10538	-10471	-10470	MG	0.00	0.00	500.00
3584	-10822	-10823	-10757	-10756	MG	0.00	0.00	500.00
3584	-10755	-10756	-10653	-10669	MG	0.00	0.00	500.00
3584	-10756	-10757	-10670	-10653	MG	0.00	0.00	500.00
3584	-10963	-10964	-10901	-10900	MG	0.00	0.00	500.00
3584	-10899	-10900	-10822	-10821	MG	0.00	0.00	500.00
3584	-10900	-10901	-10823	-10822	MG	0.00	0.00	500.00
3584	-11106	-11107	-11036	-11035	MG	0.00	0.00	500.00
3584	-11034	-11035	-10963	-10962	MG	0.00	0.00	500.00
3584	-11035	-11036	-10964	-10963	MG	0.00	0.00	500.00
3584	-11238	-11239	-11173	-11172	MG	0.00	0.00	500.00
3584	-11171	-11172	-11106	-11105	MG	0.00	0.00	500.00
3584	-11172	-11173	-11107	-11106	MG	0.00	0.00	500.00
3584	-11376	-11377	-11311	-11310	MG	0.00	0.00	500.00
3584	-11309	-11310	-11238	-11237	MG	0.00	0.00	500.00
3584	-11310	-11311	-11239	-11238	MG	0.00	0.00	500.00
3584	-11516	-11517	-11447	-11446	MG	0.00	0.00	500.00
3584	-11445	-11446	-11376	-11375	MG	0.00	0.00	500.00
3584	-11446	-11447	-11377	-11376	MG	0.00	0.00	500.00
3584	-11653	-11654	-11587	-11586	MG	0.00	0.00	500.00
3584	-11585	-11586	-11516	-11515	MG	0.00	0.00	500.00
3584	-11586	-11587	-11517	-11516	MG	0.00	0.00	500.00
3584	-11790	-11791	-11725	-11724	MG	0.00	0.00	500.00
3584	-11723	-11724	-11653	-11652	MG	0.00	0.00	500.00
3584	-11724	-11725	-11654	-11653	MG	0.00	0.00	500.00
3584	-11959	-11991	-11853	-11852	MG	0.00	0.00	500.00
3584	-11895	-11852	-11790	-11789	MG	0.00	0.00	500.00
3584	-11852	-11853	-11791	-11790	MG	0.00	0.00	500.00
3584	-12168	-12169	-12087	-12017	MG	0.00	0.00	500.00
3584	-12086	-12017	-11959	-11990	MG	0.00	0.00	500.00
3584	-12017	-12087	-11991	-11959	MG	0.00	0.00	500.00
3584	-12278	-12279	-12207	-12206	MG	0.00	0.00	500.00
3584	-12205	-12206	-12168	-12105	MG	0.00	0.00	500.00
3584	-12206	-12207	-12169	-12168	MG	0.00	0.00	500.00
3584	-12412	-12413	-12347	-12346	MG	0.00	0.00	500.00
3584	-12345	-12346	-12278	-12277	MG	0.00	0.00	500.00
3584	-12346	-12347	-12279	-12278	MG	0.00	0.00	500.00
3584	-12576	-12577	-12494	-12493	MG	0.00	0.00	500.00
3584	-12492	-12493	-12412	-12411	MG	0.00	0.00	500.00
3584	-12493	-12494	-12413	-12412	MG	0.00	0.00	500.00
3584	-12721	-12722	-12651	-12650	MG	0.00	0.00	500.00
3584	-12649	-12650	-12576	-12575	MG	0.00	0.00	500.00
3584	-12650	-12651	-12577	-12576	MG	0.00	0.00	500.00
3584	-12861	-12862	-12792	-12791	MG	0.00	0.00	500.00
3584	-12790	-12791	-12721	-12720	MG	0.00	0.00	500.00
3584	-12791	-12792	-12722	-12721	MG	0.00	0.00	500.00
3584	-13022	-13023	-12940	-12939	MG	0.00	0.00	500.00
3584	-12938	-12939	-12861	-12860	MG	0.00	0.00	500.00
3584	-12939	-12940	-12862	-12861	MG	0.00	0.00	500.00
3584	-13162	-13172	-13081	-13094	MG	0.00	0.00	500.00
3584	-13093	-13094	-13022	-13021	MG	0.00	0.00	500.00
3584	-13094	-13081	-13023	-13022	MG	0.00	0.00	500.00
3584	-13299	-13300	-13231	-13230	MG	0.00	0.00	500.00
3584	-13229	-13230	-13162	-13161	MG	0.00	0.00	500.00
3584	-13230	-13231	-13172	-13162	MG	0.00	0.00	500.00
3584	-13438	-13439	-13367	-13366	MG	0.00	0.00	500.00
3584	-13365	-13366	-13299	-13298	MG	0.00	0.00	500.00
3584	-13366	-13367	-13300	-13299	MG	0.00	0.00	500.00
3584	-13574	-13575	-13509	-13508	MG	0.00	0.00	500.00
3584	-13507	-13508	-13438	-13437	MG	0.00	0.00	500.00
3584	-13508	-13509	-13439	-13438	MG	0.00	0.00	500.00
3584	-13706	-13707	-13641	-13640	MG	0.00	0.00	500.00
3584	-13639	-13640	-13574	-13573	MG	0.00	0.00	500.00
3584	-13640	-13641	-13575	-13574	MG	0.00	0.00	500.00
3584	-13838	-13839	-13773	-13772	MG	0.00	0.00	500.00

3584	-13771	-13772	-13706	-13705	MG	0.00	0.00	500.00
3584	-13772	-13773	-13707	-13706	MG	0.00	0.00	500.00
3584	-13976	-13977	-13907	-13906	MG	0.00	0.00	500.00
3584	-13905	-13906	-13838	-13837	MG	0.00	0.00	500.00
3584	-13906	-13907	-13839	-13838	MG	0.00	0.00	500.00
3584	-14111	-14112	-14044	-14043	MG	0.00	0.00	500.00
3584	-14042	-14043	-13976	-13975	MG	0.00	0.00	500.00
3584	-14043	-14044	-13977	-13976	MG	0.00	0.00	500.00
3584	-14243	-14244	-14178	-14177	MG	0.00	0.00	500.00
3584	-14176	-14177	-14111	-14110	MG	0.00	0.00	500.00
3584	-14177	-14178	-14112	-14111	MG	0.00	0.00	500.00
3584	-14375	-14376	-14310	-14309	MG	0.00	0.00	500.00
3584	-14308	-14309	-14243	-14242	MG	0.00	0.00	500.00
3584	-14309	-14310	-14244	-14243	MG	0.00	0.00	500.00
3584	-14507	-14508	-14442	-14441	MG	0.00	0.00	500.00
3584	-14440	-14441	-14375	-14374	MG	0.00	0.00	500.00
3584	-14441	-14442	-14376	-14375	MG	0.00	0.00	500.00
3584	-14645	-14646	-14578	-14577	MG	0.00	0.00	500.00
3584	-14576	-14577	-14507	-14506	MG	0.00	0.00	500.00
3584	-14577	-14578	-14508	-14507	MG	0.00	0.00	500.00
3584	-14777	-14778	-14712	-14711	MG	0.00	0.00	500.00
3584	-14710	-14711	-14645	-14644	MG	0.00	0.00	500.00
3584	-14711	-14712	-14646	-14645	MG	0.00	0.00	500.00
3584	-14909	-14910	-14844	-14843	MG	0.00	0.00	500.00
3584	-14842	-14843	-14777	-14776	MG	0.00	0.00	500.00
3584	-14843	-14844	-14778	-14777	MG	0.00	0.00	500.00
3584	-15041	-15042	-14976	-14975	MG	0.00	0.00	500.00
3584	-14974	-14975	-14909	-14908	MG	0.00	0.00	500.00
3584	-14975	-14976	-14910	-14909	MG	0.00	0.00	500.00
3584	-15175	-15176	-15111	-15110	MG	0.00	0.00	500.00
3584	-15109	-15110	-15041	-15040	MG	0.00	0.00	500.00
3584	-15110	-15111	-15042	-15041	MG	0.00	0.00	500.00
3584	-15308	-15309	-15243	-15242	MG	0.00	0.00	500.00
3584	-15241	-15242	-15175	-15174	MG	0.00	0.00	500.00
3584	-15242	-15243	-15176	-15175	MG	0.00	0.00	500.00
3584	-15440	-15441	-15375	-15374	MG	0.00	0.00	500.00
3584	-15373	-15374	-15308	-15307	MG	0.00	0.00	500.00
3584	-15374	-15375	-15309	-15308	MG	0.00	0.00	500.00
3584	-15572	-15573	-15507	-15506	MG	0.00	0.00	500.00
3584	-15505	-15506	-15440	-15439	MG	0.00	0.00	500.00
3584	-15506	-15507	-15441	-15440	MG	0.00	0.00	500.00
3584	-15704	-15705	-15639	-15638	MG	0.00	0.00	500.00
3584	-15637	-15638	-15572	-15571	MG	0.00	0.00	500.00
3584	-15638	-15639	-15573	-15572	MG	0.00	0.00	500.00
3584	-15836	-15837	-15771	-15770	MG	0.00	0.00	500.00
3584	-15769	-15770	-15704	-15703	MG	0.00	0.00	500.00
3584	-15770	-15771	-15705	-15704	MG	0.00	0.00	500.00
3584	-15969	-15970	-15904	-15903	MG	0.00	0.00	500.00
3584	-15902	-15903	-15836	-15835	MG	0.00	0.00	500.00
3584	-15903	-15904	-15837	-15836	MG	0.00	0.00	500.00
3584	-16101	-16102	-16036	-16035	MG	0.00	0.00	500.00
3584	-16034	-16035	-15969	-15968	MG	0.00	0.00	500.00
3584	-16035	-16036	-15970	-15969	MG	0.00	0.00	500.00
3584	-16233	-16234	-16168	-16167	MG	0.00	0.00	500.00
3584	-16166	-16167	-16101	-16100	MG	0.00	0.00	500.00
3584	-16167	-16168	-16102	-16101	MG	0.00	0.00	500.00
3584	-16365	-16366	-16300	-16299	MG	0.00	0.00	500.00
3584	-16298	-16299	-16233	-16232	MG	0.00	0.00	500.00
3584	-16299	-16300	-16234	-16233	MG	0.00	0.00	500.00
3584	-16497	-16498	-16432	-16431	MG	0.00	0.00	500.00
3584	-16430	-16431	-16365	-16364	MG	0.00	0.00	500.00
3584	-16431	-16432	-16366	-16365	MG	0.00	0.00	500.00
3584	-16596	-16597	-16564	-16563	MG	0.00	0.00	500.00
3584	-16562	-16563	-16497	-16496	MG	0.00	0.00	500.00
3584	-16563	-16564	-16498	-16497	MG	0.00	0.00	500.00
3584	-16464	-16465	-16531	-16530	MG	0.00	0.00	500.00
3584	-16529	-16530	-16596	-16595	MG	0.00	0.00	500.00
3584	-16530	-16531	-16597	-16596	MG	0.00	0.00	500.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	500.00
3584	-16397	-16398	-16464	-16463	MG	0.00	0.00	500.00
3584	-16398	-16399	-16465	-16464	MG	0.00	0.00	500.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	500.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	500.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	500.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	500.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	500.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	500.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	500.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	500.00

3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	500.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	500.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	500.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	500.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	500.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	500.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	500.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	500.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	500.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	500.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	500.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	500.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	500.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	500.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	500.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	500.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	500.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	500.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	500.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	500.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	500.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	500.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	500.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	500.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	500.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	500.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	500.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	500.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	500.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	500.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	500.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	500.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	500.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	500.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	500.00
3584	-11570	-11638	-11637	-11569	MG	0.00	0.00	500.00
3584	-11638	-11708	-11707	-11637	MG	0.00	0.00	500.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	500.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	500.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	500.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	500.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	500.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	500.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	500.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	500.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	500.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	500.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	500.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	500.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	500.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	500.00
3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	500.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	500.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	500.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	500.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	500.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	500.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	500.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	500.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	500.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	500.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	500.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	500.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	500.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	500.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	500.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	500.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	500.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	500.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	500.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	500.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	500.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	500.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	500.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	500.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	500.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	500.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	500.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	500.00

3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	500.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	500.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	500.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	500.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	500.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	500.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	500.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	500.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	500.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	500.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	500.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	500.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	500.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	500.00
3584	-12586	-12585	-12501	-12502	MG	0.00	0.00	500.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	500.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	500.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	500.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	500.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	500.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	500.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	500.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	500.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	500.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	500.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	500.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	500.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	500.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	500.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	500.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	500.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	500.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	500.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	500.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	500.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	500.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	500.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	500.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	500.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	500.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	500.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	500.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	500.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	500.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	500.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	500.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	500.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	500.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	500.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	500.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	500.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	500.00
3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	500.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	500.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	500.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	500.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	500.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	500.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	500.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	500.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	500.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	500.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	500.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	500.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	500.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	500.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	500.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	500.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	500.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	500.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	500.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	500.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	500.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	500.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	500.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	500.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	500.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	500.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	500.00

3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	500.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	500.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	500.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	500.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	500.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	500.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	500.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	500.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	500.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	500.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	500.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	500.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	500.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	500.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	500.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	500.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	500.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	500.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	500.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	500.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	500.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	500.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	500.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	500.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	500.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	500.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	500.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	500.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	500.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	500.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	500.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	500.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	500.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	500.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	500.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	500.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	500.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	500.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	500.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	500.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	500.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	500.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	500.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	500.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	500.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	500.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	500.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	500.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	500.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	500.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	500.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	500.00
3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	500.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	500.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	500.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	500.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	500.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	500.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	500.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	500.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	500.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	500.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	500.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	500.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	500.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	500.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	500.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	500.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	500.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	500.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	500.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	500.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	500.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	500.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	500.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	500.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	500.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	500.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	500.00

3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	500.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	500.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	500.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	500.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	500.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	500.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	500.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	500.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	500.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	500.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	500.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	500.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	500.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	500.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	500.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	500.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	500.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	500.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	500.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	500.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	500.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	500.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	500.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	500.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	500.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	500.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	500.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	500.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	500.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	500.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	500.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	500.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	500.00
3584	-15774	-15773	-15707	-15708	MG	0.00	0.00	500.00
3584	-15708	-15707	-15641	-15642	MG	0.00	0.00	500.00
3584	-15642	-15641	-15575	-15576	MG	0.00	0.00	500.00
3584	-15576	-15575	-15509	-15510	MG	0.00	0.00	500.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	500.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	500.00
3584	-15378	-15377	-15311	-15312	MG	0.00	0.00	500.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	500.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	500.00
3584	-15841	-15840	-15774	-15775	MG	0.00	0.00	500.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	500.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	500.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	500.00
3584	-15577	-15576	-15510	-15511	MG	0.00	0.00	500.00
3584	-15511	-15510	-15444	-15445	MG	0.00	0.00	500.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	500.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	500.00
3584	-15975	-15974	-15908	-15909	MG	0.00	0.00	500.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	500.00
3584	-15842	-15841	-15775	-15776	MG	0.00	0.00	500.00
3584	-15776	-15775	-15709	-15710	MG	0.00	0.00	500.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	500.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	500.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	500.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	500.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	500.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	500.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	500.00
3584	-15910	-15909	-15842	-15843	MG	0.00	0.00	500.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	500.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	500.00
3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	500.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	500.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	500.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	500.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	500.00
3584	-15381	-15380	-15314	-15315	MG	0.00	0.00	500.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	500.00
3584	-15911	-15910	-15843	-15844	MG	0.00	0.00	500.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	500.00
3584	-15778	-15777	-15711	-15712	MG	0.00	0.00	500.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	500.00
3584	-15646	-15645	-15579	-15580	MG	0.00	0.00	500.00
3584	-15580	-15579	-15513	-15514	MG	0.00	0.00	500.00
3584	-15514	-15513	-15447	-15448	MG	0.00	0.00	500.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	500.00

3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	500.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	500.00
3584	-15912	-15911	-15844	-15845	MG	0.00	0.00	500.00
3584	-15845	-15844	-15778	-15779	MG	0.00	0.00	500.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	500.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	500.00
3584	-15647	-15646	-15580	-15581	MG	0.00	0.00	500.00
3584	-15581	-15580	-15514	-15515	MG	0.00	0.00	500.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	500.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	500.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	500.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	500.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	500.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	500.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	500.00
3584	-15714	-15713	-15647	-15648	MG	0.00	0.00	500.00
3584	-15648	-15647	-15581	-15582	MG	0.00	0.00	500.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	500.00
3584	-15516	-15515	-15449	-15450	MG	0.00	0.00	500.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	500.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	500.00
3584	-15980	-15979	-15913	-15914	MG	0.00	0.00	500.00
3584	-15914	-15913	-15846	-15847	MG	0.00	0.00	500.00
3584	-15847	-15846	-15780	-15781	MG	0.00	0.00	500.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	500.00
3584	-15715	-15714	-15648	-15649	MG	0.00	0.00	500.00
3584	-15649	-15648	-15582	-15583	MG	0.00	0.00	500.00
3584	-15583	-15582	-15516	-15517	MG	0.00	0.00	500.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	500.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	500.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	500.00
3584	-15981	-15980	-15914	-15915	MG	0.00	0.00	500.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	500.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	500.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	500.00
3584	-15716	-15715	-15649	-15650	MG	0.00	0.00	500.00
3584	-15650	-15649	-15583	-15584	MG	0.00	0.00	500.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	500.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	500.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	500.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	500.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	500.00
3584	-15916	-15915	-15848	-15849	MG	0.00	0.00	500.00
3584	-15849	-15848	-15782	-15783	MG	0.00	0.00	500.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	500.00
3584	-15717	-15716	-15650	-15651	MG	0.00	0.00	500.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	500.00
3584	-15585	-15584	-15518	-15519	MG	0.00	0.00	500.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	500.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	500.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	500.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	500.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	500.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	500.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	500.00
3584	-15718	-15717	-15651	-15652	MG	0.00	0.00	500.00
3584	-15652	-15651	-15585	-15586	MG	0.00	0.00	500.00
3584	-15586	-15585	-15519	-15520	MG	0.00	0.00	500.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	500.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	500.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	500.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	500.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	500.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	500.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	500.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	500.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	500.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	500.00
3584	-15521	-15520	-15454	-15455	MG	0.00	0.00	500.00
3584	-15455	-15454	-15388	-15389	MG	0.00	0.00	500.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	500.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	500.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	500.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	500.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	500.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	500.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	500.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	500.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	500.00



3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	500.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	500.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	500.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	500.00
3584	-13843	-13842	-13776	-13777	MG	0.00	0.00	500.00
3584	-13777	-13776	-13710	-13711	MG	0.00	0.00	500.00
3584	-13711	-13710	-13644	-13645	MG	0.00	0.00	500.00
3584	-13645	-13644	-13578	-13579	MG	0.00	0.00	500.00
3584	-13579	-13578	-13512	-13513	MG	0.00	0.00	500.00
3584	-13513	-13512	-13442	-13443	MG	0.00	0.00	500.00
3584	-13443	-13442	-13370	-13371	MG	0.00	0.00	500.00
3584	-13371	-13370	-13303	-13304	MG	0.00	0.00	500.00
3584	-14648	-14714	-14713	-14647	MG	0.00	0.00	500.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	500.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	500.00
3584	-15973	-15972	-15906	-15907	MG	0.00	0.00	500.00
3584	-12579	-12653	-12652	-12578	MG	0.00	0.00	500.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	500.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	500.00
3584	-11794	-11793	-11727	-11728	MG	0.00	0.00	500.00
3584	-13444	-13443	-13371	-13372	MG	0.00	0.00	500.00
3584	-13372	-13371	-13304	-13305	MG	0.00	0.00	500.00
3584	-13983	-13982	-13912	-13913	MG	0.00	0.00	500.00
3584	-13913	-13912	-13844	-13845	MG	0.00	0.00	500.00
3584	-13845	-13844	-13778	-13779	MG	0.00	0.00	500.00
3584	-13779	-13778	-13712	-13713	MG	0.00	0.00	500.00
3584	-13713	-13712	-13646	-13647	MG	0.00	0.00	500.00
3584	-13647	-13646	-13580	-13581	MG	0.00	0.00	500.00
3584	-13581	-13580	-13514	-13515	MG	0.00	0.00	500.00
3584	-13515	-13514	-13444	-13445	MG	0.00	0.00	500.00
3584	-13445	-13444	-13372	-13373	MG	0.00	0.00	500.00
3584	-13373	-13372	-13305	-13306	MG	0.00	0.00	500.00
3584	-13984	-13983	-13913	-13914	MG	0.00	0.00	500.00
3584	-13914	-13913	-13845	-13846	MG	0.00	0.00	500.00
3584	-13846	-13845	-13779	-13780	MG	0.00	0.00	500.00
3584	-13780	-13779	-13713	-13714	MG	0.00	0.00	500.00
3584	-13714	-13713	-13647	-13648	MG	0.00	0.00	500.00
3584	-13648	-13647	-13581	-13582	MG	0.00	0.00	500.00
3584	-13582	-13581	-13515	-13516	MG	0.00	0.00	500.00
3584	-13516	-13515	-13445	-13446	MG	0.00	0.00	500.00
3584	-13446	-13445	-13373	-13374	MG	0.00	0.00	500.00
3584	-13374	-13373	-13306	-13307	MG	0.00	0.00	500.00
3584	-13985	-13984	-13914	-13915	MG	0.00	0.00	500.00
3584	-13915	-13914	-13846	-13847	MG	0.00	0.00	500.00
3584	-13847	-13846	-13780	-13781	MG	0.00	0.00	500.00
3584	-13781	-13780	-13714	-13715	MG	0.00	0.00	500.00
3584	-13715	-13714	-13648	-13649	MG	0.00	0.00	500.00
3584	-13649	-13648	-13582	-13583	MG	0.00	0.00	500.00
3584	-13583	-13582	-13516	-13517	MG	0.00	0.00	500.00
3584	-13517	-13516	-13446	-13447	MG	0.00	0.00	500.00
3584	-13447	-13446	-13374	-13375	MG	0.00	0.00	500.00
3584	-13375	-13374	-13307	-13308	MG	0.00	0.00	500.00
3584	-13986	-13985	-13915	-13916	MG	0.00	0.00	500.00
3584	-13916	-13915	-13847	-13848	MG	0.00	0.00	500.00
3584	-13848	-13847	-13781	-13782	MG	0.00	0.00	500.00
3584	-13782	-13781	-13715	-13716	MG	0.00	0.00	500.00
3584	-13716	-13715	-13649	-13650	MG	0.00	0.00	500.00
3584	-13650	-13649	-13583	-13584	MG	0.00	0.00	500.00
3584	-13584	-13583	-13517	-13518	MG	0.00	0.00	500.00
3584	-13518	-13517	-13447	-13448	MG	0.00	0.00	500.00
3584	-13448	-13447	-13375	-13376	MG	0.00	0.00	500.00
3584	-13376	-13375	-13308	-13309	MG	0.00	0.00	500.00
3584	-13987	-13986	-13916	-13917	MG	0.00	0.00	500.00
3584	-13917	-13916	-13848	-13849	MG	0.00	0.00	500.00
3584	-13849	-13848	-13782	-13783	MG	0.00	0.00	500.00
3584	-13783	-13782	-13716	-13717	MG	0.00	0.00	500.00
3584	-13717	-13716	-13650	-13651	MG	0.00	0.00	500.00
3584	-13651	-13650	-13584	-13585	MG	0.00	0.00	500.00
3584	-13585	-13584	-13518	-13519	MG	0.00	0.00	500.00
3584	-13519	-13518	-13448	-13449	MG	0.00	0.00	500.00
3584	-13449	-13448	-13376	-13377	MG	0.00	0.00	500.00
3584	-13377	-13376	-13309	-13310	MG	0.00	0.00	500.00
3584	-13988	-13987	-13917	-13918	MG	0.00	0.00	500.00
3584	-13918	-13917	-13849	-13850	MG	0.00	0.00	500.00
3584	-13850	-13849	-13783	-13784	MG	0.00	0.00	500.00
3584	-13784	-13783	-13717	-13718	MG	0.00	0.00	500.00
3584	-13718	-13717	-13651	-13652	MG	0.00	0.00	500.00
3584	-13652	-13651	-13585	-13586	MG	0.00	0.00	500.00
3584	-13586	-13585	-13519	-13520	MG	0.00	0.00	500.00

3584	-13520	-13519	-13449	-13450	MG	0.00	0.00	500.00
3584	-13450	-13449	-13377	-13378	MG	0.00	0.00	500.00
3584	-13378	-13377	-13310	-13311	MG	0.00	0.00	500.00
3584	-13989	-13988	-13918	-13919	MG	0.00	0.00	500.00
3584	-13919	-13918	-13850	-13851	MG	0.00	0.00	500.00
3584	-13851	-13850	-13784	-13785	MG	0.00	0.00	500.00
3584	-13785	-13784	-13718	-13719	MG	0.00	0.00	500.00
3584	-13719	-13718	-13652	-13653	MG	0.00	0.00	500.00
3584	-13653	-13652	-13586	-13587	MG	0.00	0.00	500.00
3584	-13587	-13586	-13520	-13521	MG	0.00	0.00	500.00
3584	-13521	-13520	-13450	-13451	MG	0.00	0.00	500.00
3584	-13451	-13450	-13378	-13379	MG	0.00	0.00	500.00
3584	-13379	-13378	-13311	-13312	MG	0.00	0.00	500.00
3584	-13990	-13989	-13919	-13920	MG	0.00	0.00	500.00
3584	-13920	-13919	-13851	-13852	MG	0.00	0.00	500.00
3584	-13852	-13851	-13785	-13786	MG	0.00	0.00	500.00
3584	-13786	-13785	-13719	-13720	MG	0.00	0.00	500.00
3584	-13720	-13719	-13653	-13654	MG	0.00	0.00	500.00
3584	-13654	-13653	-13587	-13588	MG	0.00	0.00	500.00
3584	-13588	-13587	-13521	-13522	MG	0.00	0.00	500.00
3584	-13522	-13521	-13451	-13452	MG	0.00	0.00	500.00
3584	-13452	-13451	-13379	-13380	MG	0.00	0.00	500.00
3584	-13380	-13379	-13312	-13313	MG	0.00	0.00	500.00
3584	-13991	-13990	-13920	-13921	MG	0.00	0.00	500.00
3584	-13921	-13920	-13852	-13853	MG	0.00	0.00	500.00
3584	-13853	-13852	-13786	-13787	MG	0.00	0.00	500.00
3584	-13787	-13786	-13720	-13721	MG	0.00	0.00	500.00
3584	-13721	-13720	-13654	-13655	MG	0.00	0.00	500.00
3584	-13655	-13654	-13588	-13589	MG	0.00	0.00	500.00
3584	-13589	-13588	-13522	-13523	MG	0.00	0.00	500.00
3584	-13523	-13522	-13452	-13453	MG	0.00	0.00	500.00
3584	-13453	-13452	-13380	-13381	MG	0.00	0.00	500.00
3584	-13381	-13380	-13313	-13314	MG	0.00	0.00	500.00
3584	-15312	-15311	-15245	-15246	MG	0.00	0.00	500.00
3584	-15246	-15245	-15178	-15179	MG	0.00	0.00	500.00
3584	-15179	-15178	-15113	-15114	MG	0.00	0.00	500.00
3584	-15114	-15113	-15044	-15045	MG	0.00	0.00	500.00
3584	-15045	-15044	-14978	-14979	MG	0.00	0.00	500.00
3584	-14979	-14978	-14912	-14913	MG	0.00	0.00	500.00
3584	-14913	-14912	-14846	-14847	MG	0.00	0.00	500.00
3584	-14847	-14846	-14780	-14781	MG	0.00	0.00	500.00
3584	-14781	-14780	-14714	-14715	MG	0.00	0.00	500.00
3584	-14715	-14714	-14648	-14649	MG	0.00	0.00	500.00
3584	-15313	-15312	-15246	-15247	MG	0.00	0.00	500.00
3584	-15247	-15246	-15179	-15180	MG	0.00	0.00	500.00
3584	-15180	-15179	-15114	-15115	MG	0.00	0.00	500.00
3584	-15115	-15114	-15045	-15046	MG	0.00	0.00	500.00
3584	-15046	-15045	-14979	-14980	MG	0.00	0.00	500.00
3584	-14980	-14979	-14913	-14914	MG	0.00	0.00	500.00
3584	-14914	-14913	-14847	-14848	MG	0.00	0.00	500.00
3584	-14848	-14847	-14781	-14782	MG	0.00	0.00	500.00
3584	-14782	-14781	-14715	-14716	MG	0.00	0.00	500.00
3584	-14716	-14715	-14649	-14650	MG	0.00	0.00	500.00
3584	-15314	-15313	-15247	-15248	MG	0.00	0.00	500.00
3584	-15248	-15247	-15180	-15181	MG	0.00	0.00	500.00
3584	-15181	-15180	-15115	-15116	MG	0.00	0.00	500.00
3584	-15116	-15115	-15046	-15047	MG	0.00	0.00	500.00
3584	-15047	-15046	-14980	-14981	MG	0.00	0.00	500.00
3584	-14981	-14980	-14914	-14915	MG	0.00	0.00	500.00
3584	-14915	-14914	-14848	-14849	MG	0.00	0.00	500.00
3584	-14849	-14848	-14782	-14783	MG	0.00	0.00	500.00
3584	-14783	-14782	-14716	-14717	MG	0.00	0.00	500.00
3584	-14717	-14716	-14650	-14651	MG	0.00	0.00	500.00
3584	-15315	-15314	-15248	-15249	MG	0.00	0.00	500.00
3584	-15249	-15248	-15181	-15182	MG	0.00	0.00	500.00
3584	-15182	-15181	-15116	-15117	MG	0.00	0.00	500.00
3584	-15117	-15116	-15047	-15048	MG	0.00	0.00	500.00
3584	-15048	-15047	-14981	-14982	MG	0.00	0.00	500.00
3584	-14982	-14981	-14915	-14916	MG	0.00	0.00	500.00
3584	-14916	-14915	-14849	-14850	MG	0.00	0.00	500.00
3584	-14850	-14849	-14783	-14784	MG	0.00	0.00	500.00
3584	-14784	-14783	-14717	-14718	MG	0.00	0.00	500.00
3584	-14718	-14717	-14651	-14652	MG	0.00	0.00	500.00
3584	-15316	-15315	-15249	-15250	MG	0.00	0.00	500.00
3584	-15250	-15249	-15182	-15183	MG	0.00	0.00	500.00
3584	-15183	-15182	-15117	-15118	MG	0.00	0.00	500.00
3584	-15118	-15117	-15048	-15049	MG	0.00	0.00	500.00
3584	-15049	-15048	-14982	-14983	MG	0.00	0.00	500.00
3584	-14983	-14982	-14916	-14917	MG	0.00	0.00	500.00

3584	-14917	-14916	-14850	-14851	MG	0.00	0.00	500.00
3584	-14851	-14850	-14784	-14785	MG	0.00	0.00	500.00
3584	-14785	-14784	-14718	-14719	MG	0.00	0.00	500.00
3584	-14719	-14718	-14652	-14653	MG	0.00	0.00	500.00
3584	-15317	-15316	-15250	-15251	MG	0.00	0.00	500.00
3584	-15251	-15250	-15183	-15184	MG	0.00	0.00	500.00
3584	-15184	-15183	-15118	-15133	MG	0.00	0.00	500.00
3584	-15133	-15118	-15049	-15050	MG	0.00	0.00	500.00
3584	-15050	-15049	-14983	-14984	MG	0.00	0.00	500.00
3584	-14984	-14983	-14917	-14918	MG	0.00	0.00	500.00
3584	-14918	-14917	-14851	-14852	MG	0.00	0.00	500.00
3584	-14852	-14851	-14785	-14786	MG	0.00	0.00	500.00
3584	-14786	-14785	-14719	-14720	MG	0.00	0.00	500.00
3584	-14720	-14719	-14653	-14654	MG	0.00	0.00	500.00
3584	-15318	-15317	-15251	-15252	MG	0.00	0.00	500.00
3584	-15252	-15251	-15184	-15185	MG	0.00	0.00	500.00
3584	-15185	-15184	-15133	-15119	MG	0.00	0.00	500.00
3584	-15119	-15133	-15050	-15051	MG	0.00	0.00	500.00
3584	-15051	-15050	-14984	-14985	MG	0.00	0.00	500.00
3584	-14985	-14984	-14918	-14919	MG	0.00	0.00	500.00
3584	-14919	-14918	-14852	-14853	MG	0.00	0.00	500.00
3584	-14853	-14852	-14786	-14787	MG	0.00	0.00	500.00
3584	-14787	-14786	-14720	-14721	MG	0.00	0.00	500.00
3584	-14721	-14720	-14654	-14655	MG	0.00	0.00	500.00
3584	-15319	-15318	-15252	-15253	MG	0.00	0.00	500.00
3584	-15253	-15252	-15185	-15186	MG	0.00	0.00	500.00
3584	-15186	-15185	-15119	-15120	MG	0.00	0.00	500.00
3584	-15120	-15119	-15051	-15052	MG	0.00	0.00	500.00
3584	-15052	-15051	-14985	-14986	MG	0.00	0.00	500.00
3584	-14986	-14985	-14919	-14920	MG	0.00	0.00	500.00
3584	-14920	-14919	-14853	-14854	MG	0.00	0.00	500.00
3584	-14854	-14853	-14787	-14788	MG	0.00	0.00	500.00
3584	-14788	-14787	-14721	-14722	MG	0.00	0.00	500.00
3584	-14722	-14721	-14655	-14656	MG	0.00	0.00	500.00
3584	-15320	-15319	-15253	-15254	MG	0.00	0.00	500.00
3584	-15254	-15253	-15186	-15187	MG	0.00	0.00	500.00
3584	-15187	-15186	-15120	-15095	MG	0.00	0.00	500.00
3584	-15095	-15120	-15052	-15053	MG	0.00	0.00	500.00
3584	-15053	-15052	-14986	-14987	MG	0.00	0.00	500.00
3584	-14987	-14986	-14920	-14921	MG	0.00	0.00	500.00
3584	-14921	-14920	-14854	-14855	MG	0.00	0.00	500.00
3584	-14855	-14854	-14788	-14789	MG	0.00	0.00	500.00
3584	-14789	-14788	-14722	-14723	MG	0.00	0.00	500.00
3584	-14723	-14722	-14656	-14657	MG	0.00	0.00	500.00
3584	-15321	-15320	-15254	-15255	MG	0.00	0.00	500.00
3584	-15255	-15254	-15187	-15188	MG	0.00	0.00	500.00
3584	-15188	-15187	-15095	-15134	MG	0.00	0.00	500.00
3584	-15134	-15095	-15053	-15054	MG	0.00	0.00	500.00
3584	-15054	-15053	-14987	-14988	MG	0.00	0.00	500.00
3584	-14988	-14987	-14921	-14922	MG	0.00	0.00	500.00
3584	-14922	-14921	-14855	-14856	MG	0.00	0.00	500.00
3584	-14856	-14855	-14789	-14790	MG	0.00	0.00	500.00
3584	-14790	-14789	-14723	-14724	MG	0.00	0.00	500.00
3584	-14724	-14723	-14657	-14658	MG	0.00	0.00	500.00
3584	-12800	-12799	-12729	-12730	MG	0.00	0.00	500.00
3584	-16463	-16464	-16530	-16529	MG	0.00	0.00	500.00
3584	-12798	-12797	-12727	-12728	MG	0.00	0.00	500.00
3584	-12797	-12796	-12726	-12727	MG	0.00	0.00	500.00
3584	-12796	-12795	-12725	-12726	MG	0.00	0.00	500.00
3584	-12795	-12794	-12724	-12725	MG	0.00	0.00	500.00
3584	-12736	-12735	-12664	-12665	MG	0.00	0.00	500.00
3584	-12735	-12734	-12663	-12664	MG	0.00	0.00	500.00
3584	-12734	-12733	-12662	-12663	MG	0.00	0.00	500.00
3584	-12733	-12732	-12661	-12662	MG	0.00	0.00	500.00
3584	-12732	-12731	-12660	-12661	MG	0.00	0.00	500.00
3584	-12731	-12730	-12659	-12660	MG	0.00	0.00	500.00
3584	-12730	-12729	-12658	-12659	MG	0.00	0.00	500.00
3584	-12729	-12728	-12657	-12658	MG	0.00	0.00	500.00
3584	-15056	-15055	-14989	-14990	MG	0.00	0.00	500.00
3584	-14990	-14989	-14923	-14924	MG	0.00	0.00	500.00
3584	-12726	-12725	-12654	-12655	MG	0.00	0.00	500.00
3584	-12725	-12724	-12653	-12654	MG	0.00	0.00	500.00
3584	-12665	-12664	-12590	-12591	MG	0.00	0.00	500.00
3584	-12664	-12663	-12589	-12590	MG	0.00	0.00	500.00
3584	-14649	-14648	-14580	-14581	MG	0.00	0.00	500.00
3584	-12662	-12661	-12587	-12588	MG	0.00	0.00	500.00
3584	-12661	-12660	-12586	-12587	MG	0.00	0.00	500.00
3584	-12660	-12659	-12585	-12586	MG	0.00	0.00	500.00
3584	-12659	-12658	-12584	-12585	MG	0.00	0.00	500.00

3584	-12658	-12657	-12583	-12584	MG	0.00	0.00	500.00
3584	-12657	-12656	-12582	-12583	MG	0.00	0.00	500.00
3584	-12656	-12655	-12581	-12582	MG	0.00	0.00	500.00
3584	-14115	-14114	-14069	-14046	MG	0.00	0.00	500.00
3584	-12654	-12653	-12579	-12580	MG	0.00	0.00	500.00
3584	-12580	-12579	-12524	-12496	MG	0.00	0.00	500.00
3584	-12496	-12524	-12415	-12416	MG	0.00	0.00	500.00
3584	-12416	-12415	-12349	-12350	MG	0.00	0.00	500.00
3584	-12350	-12349	-12281	-12282	MG	0.00	0.00	500.00
3584	-14380	-14379	-14313	-14314	MG	0.00	0.00	500.00
3584	-14314	-14313	-14247	-14248	MG	0.00	0.00	500.00
3584	-14248	-14247	-14181	-14182	MG	0.00	0.00	500.00
3584	-14182	-14181	-14115	-14116	MG	0.00	0.00	500.00
3584	-14116	-14115	-14046	-14093	MG	0.00	0.00	500.00
3584	-14093	-14046	-13980	-13981	MG	0.00	0.00	500.00
3584	-14651	-14650	-14582	-14583	MG	0.00	0.00	500.00
3584	-14583	-14582	-14512	-14513	MG	0.00	0.00	500.00
3584	-14513	-14512	-14446	-14447	MG	0.00	0.00	500.00
3584	-14447	-14446	-14380	-14381	MG	0.00	0.00	500.00
3584	-14381	-14380	-14314	-14315	MG	0.00	0.00	500.00
3584	-14315	-14314	-14248	-14249	MG	0.00	0.00	500.00
3584	-14249	-14248	-14182	-14183	MG	0.00	0.00	500.00
3584	-14183	-14182	-14116	-14117	MG	0.00	0.00	500.00
3584	-14117	-14116	-14093	-14047	MG	0.00	0.00	500.00
3584	-14047	-14093	-13981	-13982	MG	0.00	0.00	500.00
3584	-14652	-14651	-14583	-14584	MG	0.00	0.00	500.00
3584	-14584	-14583	-14513	-14514	MG	0.00	0.00	500.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	500.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	500.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	500.00
3584	-14316	-14315	-14249	-14250	MG	0.00	0.00	500.00
3584	-14250	-14249	-14183	-14184	MG	0.00	0.00	500.00
3584	-14184	-14183	-14117	-14118	MG	0.00	0.00	500.00
3584	-14118	-14117	-14047	-14048	MG	0.00	0.00	500.00
3584	-14048	-14047	-13982	-13983	MG	0.00	0.00	500.00
3584	-14653	-14652	-14584	-14585	MG	0.00	0.00	500.00
3584	-14585	-14584	-14514	-14515	MG	0.00	0.00	500.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	500.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	500.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	500.00
3584	-14317	-14316	-14250	-14251	MG	0.00	0.00	500.00
3584	-14251	-14250	-14184	-14185	MG	0.00	0.00	500.00
3584	-14185	-14184	-14118	-14119	MG	0.00	0.00	500.00
3584	-14119	-14118	-14048	-14049	MG	0.00	0.00	500.00
3584	-14049	-14048	-13983	-13984	MG	0.00	0.00	500.00
3584	-14654	-14653	-14585	-14586	MG	0.00	0.00	500.00
3584	-14586	-14585	-14515	-14516	MG	0.00	0.00	500.00
3584	-14516	-14515	-14449	-14450	MG	0.00	0.00	500.00
3584	-14450	-14449	-14383	-14384	MG	0.00	0.00	500.00
3584	-14384	-14383	-14317	-14318	MG	0.00	0.00	500.00
3584	-14318	-14317	-14251	-14252	MG	0.00	0.00	500.00
3584	-14252	-14251	-14185	-14186	MG	0.00	0.00	500.00
3584	-14186	-14185	-14119	-14120	MG	0.00	0.00	500.00
3584	-14120	-14119	-14049	-14050	MG	0.00	0.00	500.00
3584	-14050	-14049	-13984	-13985	MG	0.00	0.00	500.00
3584	-14655	-14654	-14586	-14587	MG	0.00	0.00	500.00
3584	-14587	-14586	-14516	-14517	MG	0.00	0.00	500.00
3584	-14517	-14516	-14450	-14451	MG	0.00	0.00	500.00
3584	-14451	-14450	-14384	-14385	MG	0.00	0.00	500.00
3584	-14385	-14384	-14318	-14319	MG	0.00	0.00	500.00
3584	-14319	-14318	-14252	-14253	MG	0.00	0.00	500.00
3584	-14253	-14252	-14186	-14187	MG	0.00	0.00	500.00
3584	-14187	-14186	-14120	-14121	MG	0.00	0.00	500.00
3584	-14121	-14120	-14050	-14051	MG	0.00	0.00	500.00
3584	-14051	-14050	-13985	-13986	MG	0.00	0.00	500.00
3584	-14656	-14655	-14587	-14588	MG	0.00	0.00	500.00
3584	-14588	-14587	-14517	-14518	MG	0.00	0.00	500.00
3584	-14518	-14517	-14451	-14452	MG	0.00	0.00	500.00
3584	-14452	-14451	-14385	-14386	MG	0.00	0.00	500.00
3584	-14386	-14385	-14319	-14320	MG	0.00	0.00	500.00
3584	-14320	-14319	-14253	-14254	MG	0.00	0.00	500.00
3584	-14254	-14253	-14187	-14188	MG	0.00	0.00	500.00
3584	-14188	-14187	-14121	-14122	MG	0.00	0.00	500.00
3584	-14122	-14121	-14051	-14052	MG	0.00	0.00	500.00
3584	-14052	-14051	-13986	-13987	MG	0.00	0.00	500.00
3584	-14657	-14656	-14588	-14589	MG	0.00	0.00	500.00
3584	-14589	-14588	-14518	-14519	MG	0.00	0.00	500.00
3584	-14519	-14518	-14452	-14453	MG	0.00	0.00	500.00
3584	-14453	-14452	-14386	-14387	MG	0.00	0.00	500.00

3584	-14387	-14386	-14320	-14321	MG	0.00	0.00	500.00
3584	-14321	-14320	-14254	-14255	MG	0.00	0.00	500.00
3584	-14255	-14254	-14188	-14189	MG	0.00	0.00	500.00
3584	-14189	-14188	-14122	-14123	MG	0.00	0.00	500.00
3584	-14123	-14122	-14052	-14053	MG	0.00	0.00	500.00
3584	-14053	-14052	-13987	-13988	MG	0.00	0.00	500.00
3584	-14658	-14657	-14589	-14590	MG	0.00	0.00	500.00
3584	-14590	-14589	-14519	-14520	MG	0.00	0.00	500.00
3584	-14520	-14519	-14453	-14454	MG	0.00	0.00	500.00
3584	-14454	-14453	-14387	-14388	MG	0.00	0.00	500.00
3584	-14388	-14387	-14321	-14322	MG	0.00	0.00	500.00
3584	-14322	-14321	-14255	-14256	MG	0.00	0.00	500.00
3584	-14256	-14255	-14189	-14190	MG	0.00	0.00	500.00
3584	-14190	-14189	-14123	-14124	MG	0.00	0.00	500.00
3584	-14124	-14123	-14053	-14054	MG	0.00	0.00	500.00
3584	-14054	-14053	-13988	-13989	MG	0.00	0.00	500.00
3584	-14659	-14658	-14590	-14591	MG	0.00	0.00	500.00
3584	-14591	-14590	-14520	-14521	MG	0.00	0.00	500.00
3584	-14521	-14520	-14454	-14455	MG	0.00	0.00	500.00
3584	-14455	-14454	-14388	-14389	MG	0.00	0.00	500.00
3584	-14389	-14388	-14322	-14323	MG	0.00	0.00	500.00
3584	-14323	-14322	-14256	-14257	MG	0.00	0.00	500.00
3584	-14257	-14256	-14190	-14191	MG	0.00	0.00	500.00
3584	-14191	-14190	-14124	-14125	MG	0.00	0.00	500.00
3584	-14125	-14124	-14054	-14055	MG	0.00	0.00	500.00
3584	-14055	-14054	-13989	-13990	MG	0.00	0.00	500.00
3584	-14660	-14659	-14591	-14592	MG	0.00	0.00	500.00
3584	-16400	-16399	-16465	-16466	MG	0.00	0.00	500.00
3584	-16466	-16465	-16531	-16532	MG	0.00	0.00	500.00
3584	-16532	-16531	-16597	-16598	MG	0.00	0.00	500.00
3584	-14390	-14389	-14323	-14324	MG	0.00	0.00	500.00
3584	-14324	-14323	-14257	-14258	MG	0.00	0.00	500.00
3584	-14258	-14257	-14191	-14192	MG	0.00	0.00	500.00
3584	-14192	-14191	-14125	-14126	MG	0.00	0.00	500.00
3584	-14126	-14125	-14055	-14056	MG	0.00	0.00	500.00
3584	-14056	-14055	-13990	-13991	MG	0.00	0.00	500.00
3584	-16611	-16610	-16577	-16578	MG	0.00	0.00	500.00
3584	-16401	-16400	-16466	-16467	MG	0.00	0.00	500.00
3584	-16467	-16466	-16532	-16533	MG	0.00	0.00	500.00
3584	-16533	-16532	-16598	-16599	MG	0.00	0.00	500.00
3584	-16607	-16606	-16573	-16574	MG	0.00	0.00	500.00
3584	-16606	-16605	-16572	-16573	MG	0.00	0.00	500.00
3584	-16605	-16604	-16571	-16572	MG	0.00	0.00	500.00
3584	-16604	-16603	-16570	-16571	MG	0.00	0.00	500.00
3584	-16603	-16602	-16569	-16570	MG	0.00	0.00	500.00
3584	-16602	-16601	-16568	-16569	MG	0.00	0.00	500.00
3584	-16601	-16600	-16567	-16568	MG	0.00	0.00	500.00
3584	-16600	-16599	-16566	-16567	MG	0.00	0.00	500.00
3584	-16578	-16577	-16511	-16512	MG	0.00	0.00	500.00
3584	-16577	-16576	-16510	-16511	MG	0.00	0.00	500.00
3584	-16576	-16575	-16509	-16510	MG	0.00	0.00	500.00
3584	-16575	-16574	-16508	-16509	MG	0.00	0.00	500.00
3584	-16574	-16573	-16507	-16508	MG	0.00	0.00	500.00
3584	-16573	-16572	-16506	-16507	MG	0.00	0.00	500.00
3584	-16572	-16571	-16505	-16506	MG	0.00	0.00	500.00
3584	-16571	-16570	-16504	-16505	MG	0.00	0.00	500.00
3584	-16570	-16569	-16503	-16504	MG	0.00	0.00	500.00
3584	-16569	-16568	-16502	-16503	MG	0.00	0.00	500.00
3584	-16568	-16567	-16501	-16502	MG	0.00	0.00	500.00
3584	-16567	-16566	-16500	-16501	MG	0.00	0.00	500.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	500.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	500.00
3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	500.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	500.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	500.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	500.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	500.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	500.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	500.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	500.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	500.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	500.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	500.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	500.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	500.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	500.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	500.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	500.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	500.00

3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	500.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	500.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	500.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	500.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	500.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	500.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	500.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	500.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	500.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	500.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	500.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	500.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	500.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	500.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	500.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	500.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	500.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	500.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	500.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	500.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	500.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	500.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	500.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	500.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	500.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	500.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	500.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	500.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	500.00
3584	-16248	-16247	-16181	-16182	MG	0.00	0.00	500.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	500.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	500.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	500.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	500.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	500.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	500.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	500.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	500.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	500.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	500.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	500.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	500.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	500.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	500.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	500.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	500.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	500.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	500.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	500.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	500.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	500.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	500.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	500.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	500.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	500.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	500.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	500.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	500.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	500.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	500.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	500.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	500.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	500.00
3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	500.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	500.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	500.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	500.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	500.00
3584	-14504	-14570	-14569	-14503	MG	0.00	0.00	500.00
3584	-14570	-14636	-14635	-14569	MG	0.00	0.00	500.00
3584	-13972	-14039	-14038	-13971	MG	0.00	0.00	500.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	500.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	500.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	500.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	500.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	500.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	500.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	500.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	500.00

3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	500.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	500.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	500.00
3584	-15907	-15906	-15839	-15840	MG	0.00	0.00	500.00
3584	-10680	-10679	-10568	-10580	MG	0.00	0.00	500.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	500.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	500.00
3584	-10415	-10414	-10336	-10337	MG	0.00	0.00	500.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	500.00
3584	-15510	-15509	-15443	-15444	MG	0.00	0.00	500.00
3584	-15444	-15443	-15377	-15378	MG	0.00	0.00	500.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	500.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	500.00
3584	-15908	-15907	-15840	-15841	MG	0.00	0.00	500.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	500.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	500.00
3584	-15709	-15708	-15642	-15643	MG	0.00	0.00	500.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	500.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	500.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	500.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	500.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	500.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	500.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	500.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	500.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	500.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	500.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	500.00
3584	-15578	-15577	-15511	-15512	MG	0.00	0.00	500.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	500.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	500.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	500.00
3584	-15976	-15975	-15909	-15910	MG	0.00	0.00	500.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	500.00
3584	-15843	-15842	-15776	-15777	MG	0.00	0.00	500.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	500.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	500.00
3584	-15645	-15644	-15578	-15579	MG	0.00	0.00	500.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	500.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	500.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	500.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	500.00
3584	-15189	-15188	-15134	-15121	MG	0.00	0.00	500.00
3584	-15121	-15134	-15054	-15055	MG	0.00	0.00	500.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	500.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	500.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	500.00
3584	-14857	-14856	-14790	-14791	MG	0.00	0.00	500.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	500.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	500.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	500.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	500.00
3584	-15978	-15977	-15911	-15912	MG	0.00	0.00	500.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	500.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	500.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	500.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	500.00
3584	-14858	-14857	-14791	-14792	MG	0.00	0.00	500.00
3584	-14792	-14791	-14725	-14726	MG	0.00	0.00	500.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	500.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	500.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	500.00
3584	-15979	-15978	-15912	-15913	MG	0.00	0.00	500.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	500.00
3584	-15846	-15845	-15779	-15780	MG	0.00	0.00	500.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	500.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	500.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	500.00
3584	-15582	-15581	-15515	-15516	MG	0.00	0.00	500.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	500.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	500.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	500.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	500.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	500.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	500.00
3584	-15781	-15780	-15714	-15715	MG	0.00	0.00	500.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	500.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	500.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	500.00

3584	-15517	-15516	-15450	-15451	MG	0.00	0.00	500.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	500.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	500.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	500.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	500.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	500.00
3584	-15782	-15781	-15715	-15716	MG	0.00	0.00	500.00
3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	500.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	500.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	500.00
3584	-15518	-15517	-15451	-15452	MG	0.00	0.00	500.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	500.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	500.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	500.00
3584	-14448	-14447	-14381	-14382	MG	0.00	0.00	500.00
3584	-14382	-14381	-14315	-14316	MG	0.00	0.00	500.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	500.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	500.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	500.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	500.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	500.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	500.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	500.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	500.00
3584	-15917	-15916	-15849	-15850	MG	0.00	0.00	500.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	500.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	500.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	500.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	500.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	500.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	500.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	500.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	500.00
3584	-15984	-15983	-15917	-15918	MG	0.00	0.00	500.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	500.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	500.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	500.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	500.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	500.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	500.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	500.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	500.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	500.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	500.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	500.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	500.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	500.00
3584	-16534	-16533	-16599	-16600	MG	0.00	0.00	500.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	500.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	500.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	500.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	500.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	500.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	500.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	500.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	500.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	500.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	500.00
3584	-11450	-11449	-11379	-11380	MG	0.00	0.00	500.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	500.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	500.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	500.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	500.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	500.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	500.00
3584	-16404	-16403	-16469	-16470	MG	0.00	0.00	500.00
3584	-16470	-16469	-16535	-16536	MG	0.00	0.00	500.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	500.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	500.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	500.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	500.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	500.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	500.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	500.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	500.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	500.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	500.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	500.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	500.00



3584	-11382	-11381	-11315	-11316	MG	0.00	0.00	500.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	500.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	500.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	500.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	500.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	500.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	500.00
3584	-16472	-16471	-16537	-16538	MG	0.00	0.00	500.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	500.00
3584	-11453	-11452	-11382	-11383	MG	0.00	0.00	500.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	500.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	500.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	500.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	500.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	500.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	500.00
3584	-16407	-16406	-16472	-16473	MG	0.00	0.00	500.00
3584	-16473	-16472	-16538	-16539	MG	0.00	0.00	500.00
3584	-16539	-16538	-16604	-16605	MG	0.00	0.00	500.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	500.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	500.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	500.00
3584	-12724	-12794	-12793	-12723	MG	0.00	0.00	500.00
3584	-12794	-12864	-12863	-12793	MG	0.00	0.00	500.00
3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	500.00
3584	-12942	-13025	-13024	-12941	MG	0.00	0.00	500.00
3584	-16408	-16407	-16473	-16474	MG	0.00	0.00	500.00
3584	-16474	-16473	-16539	-16540	MG	0.00	0.00	500.00
3584	-13164	-13233	-13232	-13163	MG	0.00	0.00	500.00
3584	-13233	-13302	-13301	-13232	MG	0.00	0.00	500.00
3584	-12578	-12652	-12651	-12577	MG	0.00	0.00	500.00
3584	-12652	-12723	-12722	-12651	MG	0.00	0.00	500.00
3584	-12723	-12793	-12792	-12722	MG	0.00	0.00	500.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	500.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	500.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	500.00
3584	-13024	-13125	-13081	-13023	MG	0.00	0.00	500.00
3584	-13125	-13163	-13172	-13081	MG	0.00	0.00	500.00
3584	-13163	-13232	-13231	-13172	MG	0.00	0.00	500.00
3584	-13232	-13301	-13300	-13231	MG	0.00	0.00	500.00
3584	-11109	-11175	-11174	-11108	MG	0.00	0.00	500.00
3584	-11175	-11241	-11240	-11174	MG	0.00	0.00	500.00
3584	-11241	-11313	-11312	-11240	MG	0.00	0.00	500.00
3584	-11313	-11379	-11378	-11312	MG	0.00	0.00	500.00
3584	-11379	-11449	-11448	-11378	MG	0.00	0.00	500.00
3584	-11449	-11519	-11518	-11448	MG	0.00	0.00	500.00
3584	-16410	-16409	-16475	-16476	MG	0.00	0.00	500.00
3584	-16476	-16475	-16541	-16542	MG	0.00	0.00	500.00
3584	-16542	-16541	-16607	-16608	MG	0.00	0.00	500.00
3584	-11727	-11793	-11792	-11726	MG	0.00	0.00	500.00
3584	-11108	-11174	-11173	-11107	MG	0.00	0.00	500.00
3584	-11174	-11240	-11239	-11173	MG	0.00	0.00	500.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	500.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	500.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	500.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	500.00
3584	-16411	-16410	-16476	-16477	MG	0.00	0.00	500.00
3584	-11588	-11655	-11654	-11587	MG	0.00	0.00	500.00
3584	-11655	-11726	-11725	-11654	MG	0.00	0.00	500.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	500.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	500.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	500.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	500.00
3584	-12058	-12182	-12141	-12051	MG	0.00	0.00	500.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	500.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	500.00
3584	-12281	-12349	-12348	-12280	MG	0.00	0.00	500.00
3584	-16478	-16477	-16543	-16544	MG	0.00	0.00	500.00
3584	-12415	-12524	-12495	-12414	MG	0.00	0.00	500.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	500.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	500.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	500.00
3584	-11932	-12051	-12087	-11991	MG	0.00	0.00	500.00
3584	-12051	-12141	-12169	-12087	MG	0.00	0.00	500.00
3584	-12141	-12208	-12207	-12169	MG	0.00	0.00	500.00
3584	-12208	-12280	-12279	-12207	MG	0.00	0.00	500.00
3584	-12280	-12348	-12347	-12279	MG	0.00	0.00	500.00
3584	-16479	-16478	-16544	-16545	MG	0.00	0.00	500.00
3584	-16545	-16544	-16610	-16611	MG	0.00	0.00	500.00

3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	500.00
3584	3504	-10404	-10403	-10329	MG	0.00	0.00	500.00
3584	-10404	-10473	-10472	-10403	MG	0.00	0.00	500.00
3584	-10473	-10576	-10616	-10472	MG	0.00	0.00	500.00
3584	-10576	-10671	-10690	-10616	MG	0.00	0.00	500.00
3584	-10671	-10759	-10758	-10690	MG	0.00	0.00	500.00
3584	-10759	-10825	-10824	-10758	MG	0.00	0.00	500.00
3584	-10825	-10890	-10902	-10824	MG	0.00	0.00	500.00
3584	-10890	-10966	-10965	-10902	MG	0.00	0.00	500.00
3584	-10966	-11054	-11053	-10965	MG	0.00	0.00	500.00
3584	-11054	-11109	-11108	-11053	MG	0.00	0.00	500.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	500.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	500.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	500.00
3584	-10616	-10690	-10670	-10538	MG	0.00	0.00	500.00
3584	-10690	-10758	-10757	-10670	MG	0.00	0.00	500.00
3584	-10758	-10824	-10823	-10757	MG	0.00	0.00	500.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	500.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	500.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	500.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	500.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	500.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	500.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	500.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	500.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	500.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	500.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	500.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	500.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	500.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	500.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	500.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	500.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	500.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	500.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	500.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	500.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	500.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	500.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	500.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	500.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	500.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	500.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	500.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	500.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	500.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	500.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	500.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	500.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	500.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	500.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	500.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	500.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	500.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	500.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	500.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	500.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	500.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	500.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	500.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	500.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	500.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	500.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	500.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	500.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	500.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	500.00
3584	-13033	-13032	-12949	-12967	MG	0.00	0.00	500.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	500.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	500.00
3584	-13030	-13029	-12946	-12947	MG	0.00	0.00	500.00
3584	-13029	-13028	-12945	-12946	MG	0.00	0.00	500.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	500.00
3584	-13027	-13026	-12943	-12944	MG	0.00	0.00	500.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	500.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	500.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	500.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	500.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	500.00

3584	-12967	-12949	-12871	-12872	MG	0.00	0.00	500.00
3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	500.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	500.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	500.00
3584	-12946	-12945	-12867	-12868	MG	0.00	0.00	500.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	500.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	500.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	500.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	500.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	500.00
3584	-12874	-12873	-12803	-12804	MG	0.00	0.00	500.00
3584	-12873	-12872	-12802	-12803	MG	0.00	0.00	500.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	500.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	500.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	500.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	500.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	500.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	500.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	500.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	500.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	500.00
3584	-15777	-15776	-15710	-15711	MG	0.00	0.00	500.00
3584	-15711	-15710	-15644	-15645	MG	0.00	0.00	500.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	500.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	500.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	500.00
3584	-15322	-15321	-15255	-15256	MG	0.00	0.00	500.00
3584	-12799	-12798	-12728	-12729	MG	0.00	0.00	500.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	500.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	500.00
3584	-15055	-15054	-14988	-14989	MG	0.00	0.00	500.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	500.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	500.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	500.00
3584	-14791	-14790	-14724	-14725	MG	0.00	0.00	500.00
3584	-14725	-14724	-14658	-14659	MG	0.00	0.00	500.00
3584	-15323	-15322	-15256	-15257	MG	0.00	0.00	500.00
3584	-15257	-15256	-15189	-15190	MG	0.00	0.00	500.00
3584	-15190	-15189	-15121	-15122	MG	0.00	0.00	500.00
3584	-15122	-15121	-15055	-15056	MG	0.00	0.00	500.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	500.00
3584	-15779	-15778	-15712	-15713	MG	0.00	0.00	500.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	500.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	500.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	500.00
3584	-14726	-14725	-14659	-14660	MG	0.00	0.00	500.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	500.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	500.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	500.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	500.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	500.00
3584	-14313	-14312	-14246	-14247	MG	0.00	0.00	500.00
3584	-14247	-14246	-14180	-14181	MG	0.00	0.00	500.00
3584	-14181	-14180	-14114	-14115	MG	0.00	0.00	500.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	500.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	500.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	500.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	500.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	500.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	500.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	500.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	500.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	500.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	500.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	500.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	500.00
3584	-15451	-15450	-15384	-15385	MG	0.00	0.00	500.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	500.00
3584	-12417	-12416	-12350	-12351	MG	0.00	0.00	500.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	500.00
3584	-12283	-12282	-12210	-12211	MG	0.00	0.00	500.00
3584	-12211	-12210	-12183	-12106	MG	0.00	0.00	500.00
3584	-12106	-12183	-12032	-12033	MG	0.00	0.00	500.00
3584	-12033	-12032	-11960	-11934	MG	0.00	0.00	500.00
3584	-11934	-11960	-11856	-11896	MG	0.00	0.00	500.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	500.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	500.00
3584	-12498	-12497	-12417	-12418	MG	0.00	0.00	500.00
3584	-14514	-14513	-14447	-14448	MG	0.00	0.00	500.00

3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	500.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	500.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	500.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	500.00
3584	-15651	-15650	-15584	-15585	MG	0.00	0.00	500.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	500.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	500.00
3584	-15453	-15452	-15386	-15387	MG	0.00	0.00	500.00
3584	-15387	-15386	-15320	-15321	MG	0.00	0.00	500.00
3584	-14515	-14514	-14448	-14449	MG	0.00	0.00	500.00
3584	-14449	-14448	-14382	-14383	MG	0.00	0.00	500.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	500.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	500.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	500.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	500.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	500.00
3584	-15520	-15519	-15453	-15454	MG	0.00	0.00	500.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	500.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	500.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	500.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	500.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	500.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	500.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	500.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	500.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	500.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	500.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	500.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	500.00
3584	-13980	-13979	-13909	-13910	MG	0.00	0.00	500.00
3584	-13910	-13909	-13841	-13842	MG	0.00	0.00	500.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	500.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	500.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	500.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	500.00
3584	-13578	-13577	-13511	-13512	MG	0.00	0.00	500.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	500.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	500.00
3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	500.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	500.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	500.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	500.00
3584	-12216	-12215	-12118	-12142	MG	0.00	0.00	500.00
3584	-12142	-12118	-12091	-12092	MG	0.00	0.00	500.00
3584	-12092	-12091	-11936	-11963	MG	0.00	0.00	500.00
3584	-11963	-11936	-11871	-11872	MG	0.00	0.00	500.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	500.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	500.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	500.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	500.00
3584	-12357	-12356	-12288	-12289	MG	0.00	0.00	500.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	500.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	500.00
3584	-12153	-12142	-12092	-12052	MG	0.00	0.00	500.00
3584	-12052	-12092	-11963	-11964	MG	0.00	0.00	500.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	500.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	500.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	500.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	500.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	500.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	500.00
3584	-12290	-12289	-12217	-12218	MG	0.00	0.00	500.00
3584	-12218	-12217	-12153	-12154	MG	0.00	0.00	500.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	500.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	500.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	500.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	500.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	500.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	500.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	500.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	500.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	500.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	500.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	500.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	500.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	500.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	500.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	500.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	500.00

3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	500.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	500.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	500.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	500.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	500.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	500.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	500.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	500.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	500.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	500.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	500.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	500.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	500.00
3584	-11595	-11594	-11524	-11525	MG	0.00	0.00	500.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	500.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	500.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	500.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	500.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	500.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	500.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	500.00
3584	-11734	-11733	-11660	-11661	MG	0.00	0.00	500.00
3584	-11661	-11660	-11595	-11596	MG	0.00	0.00	500.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	500.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	500.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	500.00
3584	-11386	-11385	-11319	-11320	MG	0.00	0.00	500.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	500.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	500.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	500.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	500.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	500.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	500.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	500.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	500.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	500.00
3584	-11387	-11386	-11320	-11321	MG	0.00	0.00	500.00
3584	-11321	-11320	-11248	-11249	MG	0.00	0.00	500.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	500.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	500.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	500.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	500.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	500.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	500.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	500.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	500.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	500.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	500.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	500.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	500.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	500.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	500.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	500.00
3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	500.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	500.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	500.00
3584	-11389	-11388	-11322	-11323	MG	0.00	0.00	500.00
3584	-11323	-11322	-11250	-11251	MG	0.00	0.00	500.00
3584	-11251	-11250	-11184	-11185	MG	0.00	0.00	500.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	500.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	500.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	500.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	500.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	500.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	500.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	500.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	500.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	500.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	500.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	500.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	500.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	500.00
3584	-11675	-11674	-11600	-11601	MG	0.00	0.00	500.00
3584	-11601	-11600	-11530	-11531	MG	0.00	0.00	500.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	500.00
3584	-11461	-11460	-11390	-11391	MG	0.00	0.00	500.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	500.00
3584	-11325	-11324	-11252	-11253	MG	0.00	0.00	500.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	500.00

3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	500.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	500.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	500.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	500.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	500.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	500.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	500.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	500.00
3584	-13307	-13306	-13237	-13238	MG	0.00	0.00	500.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	500.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	500.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	500.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	500.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	500.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	500.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	500.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	500.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	500.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	500.00
3584	-13239	-13238	-13176	-13177	MG	0.00	0.00	500.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	500.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	500.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	500.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	500.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	500.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	500.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	500.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	500.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	500.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	500.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	500.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	500.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	500.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	500.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	500.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	500.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	500.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	500.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	500.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	500.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	500.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	500.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	500.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	500.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	500.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	500.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	500.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	500.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	500.00
3584	-13037	-13036	-12952	-12953	MG	0.00	0.00	500.00
3584	-13036	-13035	-12951	-12952	MG	0.00	0.00	500.00
3584	-13035	-13034	-12950	-12951	MG	0.00	0.00	500.00
3584	-13034	-13033	-12967	-12950	MG	0.00	0.00	500.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	500.00
3584	-13032	-13031	-12948	-12949	MG	0.00	0.00	500.00
3584	-15840	-15839	-15773	-15774	MG	0.00	0.00	500.00
3584	-11522	-11521	-11451	-11452	MG	0.00	0.00	500.00
3584	-11452	-11451	-11381	-11382	MG	0.00	0.00	500.00
3584	-13028	-13027	-12944	-12945	MG	0.00	0.00	500.00
3584	-11316	-11315	-11243	-11244	MG	0.00	0.00	500.00
3584	-13026	-13025	-12942	-12943	MG	0.00	0.00	500.00
3584	-12953	-12952	-12875	-12876	MG	0.00	0.00	500.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	500.00
3584	-15974	-15973	-15907	-15908	MG	0.00	0.00	500.00
3584	-12950	-12967	-12872	-12873	MG	0.00	0.00	500.00
3584	-11593	-11592	-11522	-11523	MG	0.00	0.00	500.00
3584	-15775	-15774	-15708	-15709	MG	0.00	0.00	500.00
3584	-12948	-12947	-12869	-12870	MG	0.00	0.00	500.00
3584	-15643	-15642	-15576	-15577	MG	0.00	0.00	500.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	500.00
3584	-12945	-12944	-12866	-12867	MG	0.00	0.00	500.00
3584	-15445	-15444	-15378	-15379	MG	0.00	0.00	500.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	500.00
3584	-12876	-12875	-12805	-12806	MG	0.00	0.00	500.00
3584	-15909	-15908	-15841	-15842	MG	0.00	0.00	500.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	500.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	500.00
3584	-15710	-15709	-15643	-15644	MG	0.00	0.00	500.00
3584	-15644	-15643	-15577	-15578	MG	0.00	0.00	500.00

3584	-12870	-12869	-12799	-12800	MG	0.00	0.00	500.00
3584	-15512	-15511	-15445	-15446	MG	0.00	0.00	500.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	500.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	500.00
3584	-11733	-11732	-11671	-11660	MG	0.00	0.00	500.00
3584	-11660	-11671	-11594	-11595	MG	0.00	0.00	500.00
3584	-12221	-12220	-12184	-12156	MG	0.00	0.00	500.00
3584	-11525	-11524	-11454	-11455	MG	0.00	0.00	500.00
3584	-11455	-11454	-11384	-11385	MG	0.00	0.00	500.00
3584	-11385	-11384	-11318	-11319	MG	0.00	0.00	500.00
3584	-15579	-15578	-15512	-15513	MG	0.00	0.00	500.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	500.00
3584	-15447	-15446	-15380	-15381	MG	0.00	0.00	500.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	500.00
3584	-10903	-10890	-10825	-10826	MG	0.00	0.00	500.00
3584	-10826	-10825	-10759	-10760	MG	0.00	0.00	500.00
3584	-15844	-15843	-15777	-15778	MG	0.00	0.00	500.00
3584	-14989	-14988	-14922	-14923	MG	0.00	0.00	500.00
3584	-15712	-15711	-15645	-15646	MG	0.00	0.00	500.00
3584	-10474	-10473	-10404	-10405	MG	0.00	0.00	500.00
3584	-11320	-11319	-11247	-11248	MG	0.00	0.00	500.00
3584	-11248	-11247	-11181	-11182	MG	0.00	0.00	500.00
3584	-15448	-15447	-15381	-15382	MG	0.00	0.00	500.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	500.00
3584	-11735	-11734	-11661	-11672	MG	0.00	0.00	500.00
3584	-11672	-11661	-11596	-11597	MG	0.00	0.00	500.00
3584	-11597	-11596	-11526	-11527	MG	0.00	0.00	500.00
3584	-11527	-11526	-11456	-11457	MG	0.00	0.00	500.00
3584	-15713	-15712	-15646	-15647	MG	0.00	0.00	500.00
3584	-10475	-10474	-10405	-10406	MG	0.00	0.00	500.00
3584	-10406	-10405	-10330	-10353	MG	0.00	0.00	500.00
3584	-15515	-15514	-15448	-15449	MG	0.00	0.00	500.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	500.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	500.00
3584	-14511	-14510	-14444	-14445	MG	0.00	0.00	500.00
3584	-15913	-15912	-15845	-15846	MG	0.00	0.00	500.00
3584	-14379	-14378	-14312	-14313	MG	0.00	0.00	500.00
3584	-15780	-15779	-15713	-15714	MG	0.00	0.00	500.00
3584	-11458	-11457	-11387	-11388	MG	0.00	0.00	500.00
3584	-11388	-11387	-11321	-11322	MG	0.00	0.00	500.00
3584	-11322	-11321	-11249	-11250	MG	0.00	0.00	500.00
3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	500.00
3584	-15450	-15449	-15383	-15384	MG	0.00	0.00	500.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	500.00
3584	-14512	-14511	-14445	-14446	MG	0.00	0.00	500.00
3584	-14446	-14445	-14379	-14380	MG	0.00	0.00	500.00
3584	-11599	-11598	-11528	-11529	MG	0.00	0.00	500.00
3584	-11529	-11528	-11458	-11459	MG	0.00	0.00	500.00
3584	-11459	-11458	-11388	-11389	MG	0.00	0.00	500.00
3584	-10477	-10476	-10407	-10408	MG	0.00	0.00	500.00
3584	-16379	-16378	-16312	-16313	MG	0.00	0.00	500.00
3584	-11114	-11113	-11047	-11037	MG	0.00	0.00	500.00
3584	-11185	-11184	-11118	-11119	MG	0.00	0.00	500.00
3584	-15385	-15384	-15318	-15319	MG	0.00	0.00	500.00
3584	-11738	-11737	-11673	-11674	MG	0.00	0.00	500.00
3584	-15915	-15914	-15847	-15848	MG	0.00	0.00	500.00
3584	-15848	-15847	-15781	-15782	MG	0.00	0.00	500.00
3584	-11530	-11529	-11459	-11460	MG	0.00	0.00	500.00
3584	-11460	-11459	-11389	-11390	MG	0.00	0.00	500.00
3584	-11390	-11389	-11323	-11324	MG	0.00	0.00	500.00
3584	-15584	-15583	-15517	-15518	MG	0.00	0.00	500.00
3584	-11896	-11856	-11794	-11795	MG	0.00	0.00	500.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	500.00
3584	-15386	-15385	-15319	-15320	MG	0.00	0.00	500.00
3584	-15982	-15981	-15915	-15916	MG	0.00	0.00	500.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	500.00
3584	-10765	-10764	-10676	-10677	MG	0.00	0.00	500.00
3584	-15783	-15782	-15716	-15717	MG	0.00	0.00	500.00
3584	-10550	-10566	-10478	-10479	MG	0.00	0.00	500.00
3584	-11391	-11390	-11324	-11325	MG	0.00	0.00	500.00
3584	-16305	-16304	-16238	-16239	MG	0.00	0.00	500.00
3584	-15519	-15518	-15452	-15453	MG	0.00	0.00	500.00
3584	-11187	-11186	-11120	-11121	MG	0.00	0.00	500.00
3584	-13314	-13313	-13244	-13245	MG	0.00	0.00	500.00
3584	-15983	-15982	-15916	-15917	MG	0.00	0.00	500.00
3584	-13312	-13311	-13242	-13243	MG	0.00	0.00	500.00
3584	-15850	-15849	-15783	-15784	MG	0.00	0.00	500.00
3584	-15784	-15783	-15717	-15718	MG	0.00	0.00	500.00
3584	-13309	-13308	-13239	-13240	MG	0.00	0.00	500.00

3584	-13308	-13307	-13238	-13239	MG	0.00	0.00	500.00
3584	-10410	-10409	-10332	-10333	MG	0.00	0.00	500.00
3584	-13306	-13305	-13236	-13237	MG	0.00	0.00	500.00
3584	-15454	-15453	-15387	-15388	MG	0.00	0.00	500.00
3584	-15388	-15387	-15321	-15322	MG	0.00	0.00	500.00
3584	-13303	-13302	-13233	-13234	MG	0.00	0.00	500.00
3584	-15918	-15917	-15850	-15851	MG	0.00	0.00	500.00
3584	-15851	-15850	-15784	-15785	MG	0.00	0.00	500.00
3584	-15785	-15784	-15718	-15719	MG	0.00	0.00	500.00
3584	-15719	-15718	-15652	-15653	MG	0.00	0.00	500.00
3584	-15653	-15652	-15586	-15587	MG	0.00	0.00	500.00
3584	-15587	-15586	-15520	-15521	MG	0.00	0.00	500.00
3584	-16176	-16175	-16109	-16110	MG	0.00	0.00	500.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	500.00
3584	-15389	-15388	-15322	-15323	MG	0.00	0.00	500.00
3584	-13236	-13235	-13173	-13174	MG	0.00	0.00	500.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	500.00
3584	-13842	-13841	-13775	-13776	MG	0.00	0.00	500.00
3584	-13776	-13775	-13709	-13710	MG	0.00	0.00	500.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	500.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	500.00
3584	-13179	-13166	-13082	-13102	MG	0.00	0.00	500.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	500.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	500.00
3584	-13370	-13369	-13302	-13303	MG	0.00	0.00	500.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	500.00
3584	-11728	-11727	-11656	-11657	MG	0.00	0.00	500.00
3584	-12288	-12287	-12215	-12216	MG	0.00	0.00	500.00
3584	-11590	-11589	-11519	-11520	MG	0.00	0.00	500.00
3584	-11520	-11519	-11449	-11450	MG	0.00	0.00	500.00
3584	-13104	-13083	-13036	-13037	MG	0.00	0.00	500.00
3584	-11380	-11379	-11313	-11314	MG	0.00	0.00	500.00
3584	-11314	-11313	-11241	-11242	MG	0.00	0.00	500.00
3584	-11242	-11241	-11175	-11176	MG	0.00	0.00	500.00
3584	-11176	-11175	-11109	-11110	MG	0.00	0.00	500.00
3584	-11795	-11794	-11728	-11729	MG	0.00	0.00	500.00
3584	-11729	-11728	-11657	-11658	MG	0.00	0.00	500.00
3584	-11658	-11657	-11590	-11591	MG	0.00	0.00	500.00
3584	-11591	-11590	-11520	-11521	MG	0.00	0.00	500.00
3584	-11521	-11520	-11450	-11451	MG	0.00	0.00	500.00
3584	-11451	-11450	-11380	-11381	MG	0.00	0.00	500.00
3584	-11381	-11380	-11314	-11315	MG	0.00	0.00	500.00
3584	-11315	-11314	-11242	-11243	MG	0.00	0.00	500.00
3584	-11243	-11242	-11176	-11177	MG	0.00	0.00	500.00
3584	-11177	-11176	-11110	-11111	MG	0.00	0.00	500.00
3584	-11796	-11795	-11729	-11730	MG	0.00	0.00	500.00
3584	-11730	-11729	-11658	-11670	MG	0.00	0.00	500.00
3584	-11670	-11658	-11591	-11592	MG	0.00	0.00	500.00
3584	-11592	-11591	-11521	-11522	MG	0.00	0.00	500.00
3584	-12154	-12153	-12052	-12018	MG	0.00	0.00	500.00
3584	-12018	-12052	-11964	-11992	MG	0.00	0.00	500.00
3584	-11992	-11964	-11859	-11873	MG	0.00	0.00	500.00
3584	-11873	-11859	-11801	-11802	MG	0.00	0.00	500.00
3584	-11244	-11243	-11177	-11178	MG	0.00	0.00	500.00
3584	-11178	-11177	-11111	-11112	MG	0.00	0.00	500.00
3584	-11797	-11796	-11730	-11731	MG	0.00	0.00	500.00
3584	-11731	-11730	-11670	-11659	MG	0.00	0.00	500.00
3584	-11659	-11670	-11592	-11593	MG	0.00	0.00	500.00
3584	-12219	-12218	-12154	-12155	MG	0.00	0.00	500.00
3584	-11523	-11522	-11452	-11453	MG	0.00	0.00	500.00
3584	-12093	-12018	-11992	-11965	MG	0.00	0.00	500.00
3584	-11383	-11382	-11316	-11317	MG	0.00	0.00	500.00
3584	-11317	-11316	-11244	-11245	MG	0.00	0.00	500.00
3584	-11245	-11244	-11178	-11179	MG	0.00	0.00	500.00
3584	-11179	-11178	-11112	-11113	MG	0.00	0.00	500.00
3584	-11798	-11797	-11731	-11732	MG	0.00	0.00	500.00
3584	-12360	-12359	-12291	-12292	MG	0.00	0.00	500.00
3584	-11671	-11659	-11593	-11594	MG	0.00	0.00	500.00
3584	-11594	-11593	-11523	-11524	MG	0.00	0.00	500.00
3584	-11524	-11523	-11453	-11454	MG	0.00	0.00	500.00
3584	-11454	-11453	-11383	-11384	MG	0.00	0.00	500.00
3584	-11384	-11383	-11317	-11318	MG	0.00	0.00	500.00
3584	-11318	-11317	-11245	-11246	MG	0.00	0.00	500.00
3584	-11246	-11245	-11179	-11180	MG	0.00	0.00	500.00
3584	-11180	-11179	-11113	-11114	MG	0.00	0.00	500.00
3584	-11799	-11798	-11732	-11733	MG	0.00	0.00	500.00
3584	-12361	-12360	-12292	-12293	MG	0.00	0.00	500.00
3584	-12293	-12292	-12220	-12221	MG	0.00	0.00	500.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	500.00



3584	-12156	-12184	-12094	-12059	MG	0.00	0.00	500.00
3584	-12059	-12094	-11993	-11966	MG	0.00	0.00	500.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	500.00
3584	-11319	-11318	-11246	-11247	MG	0.00	0.00	500.00
3584	-11247	-11246	-11180	-11181	MG	0.00	0.00	500.00
3584	-11181	-11180	-11114	-11115	MG	0.00	0.00	500.00
3584	-11800	-11799	-11733	-11734	MG	0.00	0.00	500.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	500.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	500.00
3584	-11596	-11595	-11525	-11526	MG	0.00	0.00	500.00
3584	-11526	-11525	-11455	-11456	MG	0.00	0.00	500.00
3584	-11456	-11455	-11385	-11386	MG	0.00	0.00	500.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	500.00
3584	-10405	-10404	3504	-10330	MG	0.00	0.00	500.00
3584	-11111	-11110	-11044	-11045	MG	0.00	0.00	500.00
3584	-11182	-11181	-11115	-11116	MG	0.00	0.00	500.00
3584	-11801	-11800	-11734	-11735	MG	0.00	0.00	500.00
3584	-10904	-10903	-10826	-10827	MG	0.00	0.00	500.00
3584	-10827	-10826	-10760	-10761	MG	0.00	0.00	500.00
3584	-10761	-10760	-10672	-10673	MG	0.00	0.00	500.00
3584	-16510	-16509	-16443	-16444	MG	0.00	0.00	500.00
3584	-11457	-11456	-11386	-11387	MG	0.00	0.00	500.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	500.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	500.00
3584	-11249	-11248	-11182	-11183	MG	0.00	0.00	500.00
3584	-11183	-11182	-11116	-11117	MG	0.00	0.00	500.00
3584	-11802	-11801	-11735	-11736	MG	0.00	0.00	500.00
3584	-11736	-11735	-11672	-11662	MG	0.00	0.00	500.00
3584	-11662	-11672	-11597	-11598	MG	0.00	0.00	500.00
3584	-11598	-11597	-11527	-11528	MG	0.00	0.00	500.00
3584	-11528	-11527	-11457	-11458	MG	0.00	0.00	500.00
3584	-10539	-10577	-10475	-10476	MG	0.00	0.00	500.00
3584	-10476	-10475	-10406	-10407	MG	0.00	0.00	500.00
3584	-10407	-10406	-10353	-10354	MG	0.00	0.00	500.00
3584	-11250	-11249	-11183	-11184	MG	0.00	0.00	500.00
3584	-11184	-11183	-11117	-11118	MG	0.00	0.00	500.00
3584	-11803	-11802	-11736	-11737	MG	0.00	0.00	500.00
3584	-11737	-11736	-11662	-11673	MG	0.00	0.00	500.00
3584	-11673	-11662	-11598	-11599	MG	0.00	0.00	500.00
3584	-16437	-16436	-16370	-16371	MG	0.00	0.00	500.00
3584	-10675	-10674	-10539	-10625	MG	0.00	0.00	500.00
3584	-10625	-10539	-10476	-10477	MG	0.00	0.00	500.00
3584	-16380	-16379	-16313	-16314	MG	0.00	0.00	500.00
3584	-12358	-12357	-12289	-12290	MG	0.00	0.00	500.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	500.00
3584	-16377	-16376	-16310	-16311	MG	0.00	0.00	500.00
3584	-11804	-11803	-11737	-11738	MG	0.00	0.00	500.00
3584	-10891	-10906	-10829	-10830	MG	0.00	0.00	500.00
3584	-11674	-11673	-11599	-11600	MG	0.00	0.00	500.00
3584	-11600	-11599	-11529	-11530	MG	0.00	0.00	500.00
3584	-10676	-10675	-10625	-10566	MG	0.00	0.00	500.00
3584	-10566	-10625	-10477	-10478	MG	0.00	0.00	500.00
3584	-10478	-10477	-10408	-10434	MG	0.00	0.00	500.00
3584	-11324	-11323	-11251	-11252	MG	0.00	0.00	500.00
3584	-11252	-11251	-11185	-11186	MG	0.00	0.00	500.00
3584	-11186	-11185	-11119	-11120	MG	0.00	0.00	500.00
3584	-11805	-11804	-11738	-11739	MG	0.00	0.00	500.00
3584	-11739	-11738	-11674	-11675	MG	0.00	0.00	500.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	500.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	500.00
3584	-11531	-11530	-11460	-11461	MG	0.00	0.00	500.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	500.00
3584	-10479	-10478	-10434	-10409	MG	0.00	0.00	500.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	500.00
3584	-11253	-11252	-11186	-11187	MG	0.00	0.00	500.00
3584	-11049	-11048	-10972	-10973	MG	0.00	0.00	500.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	500.00
3584	-13313	-13312	-13243	-13244	MG	0.00	0.00	500.00
3584	-10831	-10852	-10765	-10766	MG	0.00	0.00	500.00
3584	-13311	-13310	-13241	-13242	MG	0.00	0.00	500.00
3584	-13310	-13309	-13240	-13241	MG	0.00	0.00	500.00
3584	-16243	-16242	-16176	-16177	MG	0.00	0.00	500.00
3584	-16242	-16241	-16175	-16176	MG	0.00	0.00	500.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	500.00
3584	-11117	-11116	-11049	-11055	MG	0.00	0.00	500.00
3584	-13305	-13304	-13235	-13236	MG	0.00	0.00	500.00
3584	-13304	-13303	-13234	-13235	MG	0.00	0.00	500.00
3584	-10916	-10908	-10831	-10832	MG	0.00	0.00	500.00
3584	-13245	-13244	-13181	-13182	MG	0.00	0.00	500.00

3584	-13244	-13243	-13180	-13181	MG	0.00	0.00	500.00
3584	-13243	-13242	-13179	-13180	MG	0.00	0.00	500.00
3584	-13242	-13241	-13166	-13179	MG	0.00	0.00	500.00
3584	-13241	-13240	-13178	-13166	MG	0.00	0.00	500.00
3584	-13240	-13239	-13177	-13178	MG	0.00	0.00	500.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	500.00
3584	-13238	-13237	-13175	-13176	MG	0.00	0.00	500.00
3584	-13237	-13236	-13174	-13175	MG	0.00	0.00	500.00
3584	-10909	-10916	-10832	-10833	MG	0.00	0.00	500.00
3584	-13235	-13234	-13165	-13173	MG	0.00	0.00	500.00
3584	-13234	-13233	-13164	-13165	MG	0.00	0.00	500.00
3584	-13182	-13181	-13083	-13104	MG	0.00	0.00	500.00
3584	-13181	-13180	-13103	-13083	MG	0.00	0.00	500.00
3584	-13180	-13179	-13102	-13103	MG	0.00	0.00	500.00
3584	-16113	-16112	-16046	-16047	MG	0.00	0.00	500.00
3584	-13166	-13178	-13101	-13082	MG	0.00	0.00	500.00
3584	-13178	-13177	-13100	-13101	MG	0.00	0.00	500.00
3584	-13177	-13176	-13099	-13100	MG	0.00	0.00	500.00
3584	-13176	-13175	-13098	-13099	MG	0.00	0.00	500.00
3584	-13175	-13174	-13126	-13098	MG	0.00	0.00	500.00
3584	-13174	-13173	-13097	-13126	MG	0.00	0.00	500.00
3584	-13173	-13165	-13096	-13097	MG	0.00	0.00	500.00
3584	-13165	-13164	-13095	-13096	MG	0.00	0.00	500.00
3584	-10483	-10482	-10412	-10413	MG	0.00	0.00	500.00
3584	-13083	-13103	-13035	-13036	MG	0.00	0.00	500.00
3584	-13103	-13102	-13034	-13035	MG	0.00	0.00	500.00
3584	-13102	-13082	-13033	-13034	MG	0.00	0.00	500.00
3584	-13082	-13101	-13032	-13033	MG	0.00	0.00	500.00
3584	-13101	-13100	-13031	-13032	MG	0.00	0.00	500.00
3584	-13100	-13099	-13030	-13031	MG	0.00	0.00	500.00
3584	-13099	-13098	-13029	-13030	MG	0.00	0.00	500.00
3584	-13098	-13126	-13028	-13029	MG	0.00	0.00	500.00
3584	-13126	-13097	-13027	-13028	MG	0.00	0.00	500.00
3584	-13097	-13096	-13026	-13027	MG	0.00	0.00	500.00
3584	-13096	-13095	-13025	-13026	MG	0.00	0.00	500.00
3584	-11859	-11872	-11800	-11801	MG	0.00	0.00	500.00
3584	-12588	-12587	-12503	-12504	MG	0.00	0.00	500.00
3584	-12504	-12503	-12423	-12424	MG	0.00	0.00	500.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	500.00
3584	-12424	-12423	-12357	-12358	MG	0.00	0.00	500.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	500.00
3584	-13031	-13030	-12947	-12948	MG	0.00	0.00	500.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	500.00
3584	-10971	-10970	-10906	-10891	MG	0.00	0.00	500.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	500.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	500.00
3584	-12589	-12588	-12504	-12505	MG	0.00	0.00	500.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	500.00
3584	-12952	-12951	-12874	-12875	MG	0.00	0.00	500.00
3584	-12951	-12950	-12873	-12874	MG	0.00	0.00	500.00
3584	-12291	-12290	-12218	-12219	MG	0.00	0.00	500.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	500.00
3584	-12949	-12948	-12870	-12871	MG	0.00	0.00	500.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	500.00
3584	-12947	-12946	-12868	-12869	MG	0.00	0.00	500.00
3584	-11860	-11873	-11802	-11803	MG	0.00	0.00	500.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	500.00
3584	-12944	-12943	-12865	-12866	MG	0.00	0.00	500.00
3584	-12943	-12942	-12864	-12865	MG	0.00	0.00	500.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	500.00
3584	-12875	-12874	-12804	-12805	MG	0.00	0.00	500.00
3584	-12220	-12219	-12155	-12184	MG	0.00	0.00	500.00
3584	-12184	-12155	-12093	-12094	MG	0.00	0.00	500.00
3584	-12872	-12871	-12801	-12802	MG	0.00	0.00	500.00
3584	-12871	-12870	-12800	-12801	MG	0.00	0.00	500.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	500.00
3584	-12869	-12868	-12798	-12799	MG	0.00	0.00	500.00
3584	-12868	-12867	-12797	-12798	MG	0.00	0.00	500.00
3584	-12867	-12866	-12796	-12797	MG	0.00	0.00	500.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	500.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	500.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	500.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	500.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	500.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	500.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	500.00
3584	-15513	-15512	-15446	-15447	MG	0.00	0.00	500.00
3584	-11044	-11054	-10966	-10967	MG	0.00	0.00	500.00
3584	-15256	-15255	-15188	-15189	MG	0.00	0.00	500.00

3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	500.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	500.00
3584	-10760	-10759	-10671	-10672	MG	0.00	0.00	500.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	500.00
3584	-14923	-14922	-14856	-14857	MG	0.00	0.00	500.00
3584	-16173	-16172	-16106	-16107	MG	0.00	0.00	500.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	500.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	500.00
3584	-11045	-11044	-10967	-10968	MG	0.00	0.00	500.00
3584	-15382	-15381	-15315	-15316	MG	0.00	0.00	500.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	500.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	500.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	500.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	500.00
3584	-14924	-14923	-14857	-14858	MG	0.00	0.00	500.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	500.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	500.00
3584	-16506	-16505	-16439	-16440	MG	0.00	0.00	500.00
3584	-15449	-15448	-15382	-15383	MG	0.00	0.00	500.00
3584	-14581	-14580	-14510	-14511	MG	0.00	0.00	500.00
3584	-16503	-16502	-16436	-16437	MG	0.00	0.00	500.00
3584	-14445	-14444	-14378	-14379	MG	0.00	0.00	500.00
3584	-10762	-10761	-10673	-10674	MG	0.00	0.00	500.00
3584	-16446	-16445	-16379	-16380	MG	0.00	0.00	500.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	500.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	500.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	500.00
3584	-14046	-14069	-13979	-13980	MG	0.00	0.00	500.00
3584	-14650	-14649	-14581	-14582	MG	0.00	0.00	500.00
3584	-14582	-14581	-14511	-14512	MG	0.00	0.00	500.00
3584	-10906	-10905	-10828	-10829	MG	0.00	0.00	500.00
3584	-16438	-16437	-16371	-16372	MG	0.00	0.00	500.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	500.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	500.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	500.00
3584	-16435	-16434	-16368	-16369	MG	0.00	0.00	500.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	500.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	500.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	500.00
3584	-16537	-16536	-16602	-16603	MG	0.00	0.00	500.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	500.00
3584	-12351	-12350	-12282	-12283	MG	0.00	0.00	500.00
3584	-10764	-10763	-10675	-10676	MG	0.00	0.00	500.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	500.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	500.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	500.00
3584	-16369	-16368	-16302	-16303	MG	0.00	0.00	500.00
3584	-16314	-16313	-16247	-16248	MG	0.00	0.00	500.00
3584	-12582	-12581	-12497	-12498	MG	0.00	0.00	500.00
3584	-10972	-10971	-10891	-10907	MG	0.00	0.00	500.00
3584	-10907	-10891	-10830	-10852	MG	0.00	0.00	500.00
3584	-11965	-11992	-11873	-11860	MG	0.00	0.00	500.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	500.00
3584	-16308	-16307	-16241	-16242	MG	0.00	0.00	500.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	500.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	500.00
3584	-14456	-14455	-14389	-14390	MG	0.00	0.00	500.00
3584	-11116	-11115	-11048	-11049	MG	0.00	0.00	500.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	500.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	500.00
3584	-10908	-10907	-10852	-10831	MG	0.00	0.00	500.00
3584	-16246	-16245	-16179	-16180	MG	0.00	0.00	500.00
3584	-14383	-14382	-14316	-14317	MG	0.00	0.00	500.00
3584	-10654	-10677	-10550	-10567	MG	0.00	0.00	500.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	500.00
3584	-12427	-12426	-12360	-12361	MG	0.00	0.00	500.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	500.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	500.00
3584	-16239	-16238	-16172	-16173	MG	0.00	0.00	500.00
3584	-10974	-10973	-10908	-10916	MG	0.00	0.00	500.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	500.00
3584	-10832	-10831	-10766	-10767	MG	0.00	0.00	500.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	500.00
3584	-10678	-10654	-10567	-10630	MG	0.00	0.00	500.00
3584	-16179	-16178	-16112	-16113	MG	0.00	0.00	500.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	500.00
3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	500.00
3584	-16409	-16408	-16474	-16475	MG	0.00	0.00	500.00
3584	-11056	-11055	-10974	-10975	MG	0.00	0.00	500.00

3584	-10975	-10974	-10916	-10909	MG	0.00	0.00	500.00
3584	-10565	-10576	-10473	-10474	MG	0.00	0.00	500.00
3584	-10833	-10832	-10767	-10768	MG	0.00	0.00	500.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	500.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	500.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	500.00
3584	-13644	-13643	-13577	-13578	MG	0.00	0.00	500.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	500.00
3584	-13512	-13511	-13441	-13442	MG	0.00	0.00	500.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	500.00
3584	-10976	-10975	-10909	-10910	MG	0.00	0.00	500.00
3584	-12422	-12421	-12355	-12356	MG	0.00	0.00	500.00
3584	-12356	-12355	-12287	-12288	MG	0.00	0.00	500.00
3584	-16107	-16106	-16040	-16041	MG	0.00	0.00	500.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	500.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	500.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	500.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	500.00
3584	-11872	-11871	-11799	-11800	MG	0.00	0.00	500.00
3584	-12587	-12586	-12502	-12503	MG	0.00	0.00	500.00
3584	-12503	-12502	-12422	-12423	MG	0.00	0.00	500.00
3584	-12423	-12422	-12356	-12357	MG	0.00	0.00	500.00
3584	-13912	-13911	-13843	-13844	MG	0.00	0.00	500.00
3584	-12289	-12288	-12216	-12217	MG	0.00	0.00	500.00
3584	-12217	-12216	-12142	-12153	MG	0.00	0.00	500.00
3584	-13712	-13711	-13645	-13646	MG	0.00	0.00	500.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	500.00
3584	-11964	-11963	-11872	-11859	MG	0.00	0.00	500.00
3584	-13514	-13513	-13443	-13444	MG	0.00	0.00	500.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	500.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	500.00
3584	-16544	-16543	-16609	-16610	MG	0.00	0.00	500.00
3584	-11110	-11109	-11054	-11044	MG	0.00	0.00	500.00
3584	-16405	-16404	-16470	-16471	MG	0.00	0.00	500.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	500.00
3584	-10481	-10480	-10410	-10411	MG	0.00	0.00	500.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	500.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	500.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	500.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	500.00
3584	-12505	-12504	-12424	-12425	MG	0.00	0.00	500.00
3584	-12425	-12424	-12358	-12359	MG	0.00	0.00	500.00
3584	-12359	-12358	-12290	-12291	MG	0.00	0.00	500.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	500.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	500.00
3584	-12155	-12154	-12018	-12093	MG	0.00	0.00	500.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	500.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-12590	-12589	-12505	-12506	MG	0.00	0.00	500.00
3584	-12506	-12505	-12425	-12426	MG	0.00	0.00	500.00
3584	-12426	-12425	-12359	-12360	MG	0.00	0.00	500.00
3584	-16306	-16305	-16239	-16240	MG	0.00	0.00	500.00
3584	-12292	-12291	-12219	-12220	MG	0.00	0.00	500.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	500.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	500.00
3584	-12094	-12093	-11965	-11993	MG	0.00	0.00	500.00
3584	-11993	-11965	-11860	-11874	MG	0.00	0.00	500.00
3584	-11874	-11860	-11803	-11804	MG	0.00	0.00	500.00
3584	-12591	-12590	-12506	-12507	MG	0.00	0.00	500.00
3584	-12507	-12506	-12426	-12427	MG	0.00	0.00	500.00
3584	-15446	-15445	-15379	-15380	MG	0.00	0.00	500.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	500.00
3584	-16608	-16607	-16574	-16575	MG	0.00	0.00	500.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	500.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	500.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	500.00
3584	-16237	-16236	-16170	-16171	MG	0.00	0.00	500.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	500.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	500.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	500.00
3584	-16180	-16179	-16113	-16114	MG	0.00	0.00	500.00
3584	-16378	-16377	-16311	-16312	MG	0.00	0.00	500.00
3584	-10411	-10410	-10333	-10356	MG	0.00	0.00	500.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	500.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	500.00
3584	-16174	-16173	-16107	-16108	MG	0.00	0.00	500.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	500.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	500.00

3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	500.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	500.00
3584	-10968	-10967	-10903	-10904	MG	0.00	0.00	500.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	500.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	500.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	500.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	500.00
3584	-16509	-16508	-16442	-16443	MG	0.00	0.00	500.00
3584	-16508	-16507	-16441	-16442	MG	0.00	0.00	500.00
3584	-16507	-16506	-16440	-16441	MG	0.00	0.00	500.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	500.00
3584	-11046	-11045	-10968	-10969	MG	0.00	0.00	500.00
3584	-10969	-10968	-10904	-10905	MG	0.00	0.00	500.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	500.00
3584	-10828	-10827	-10761	-10762	MG	0.00	0.00	500.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	500.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	500.00
3584	-16445	-16444	-16378	-16379	MG	0.00	0.00	500.00
3584	-16444	-16443	-16377	-16378	MG	0.00	0.00	500.00
3584	-16443	-16442	-16376	-16377	MG	0.00	0.00	500.00
3584	-16442	-16441	-16375	-16376	MG	0.00	0.00	500.00
3584	-11047	-11046	-10969	-10970	MG	0.00	0.00	500.00
3584	-10970	-10969	-10905	-10906	MG	0.00	0.00	500.00
3584	-16439	-16438	-16372	-16373	MG	0.00	0.00	500.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	500.00
3584	-16412	-16411	-16477	-16478	MG	0.00	0.00	500.00
3584	-16436	-16435	-16369	-16370	MG	0.00	0.00	500.00
3584	-13580	-13579	-13513	-13514	MG	0.00	0.00	500.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	500.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	500.00
3584	-13778	-13777	-13711	-13712	MG	0.00	0.00	500.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	500.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	500.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	500.00
3584	-16374	-16373	-16307	-16308	MG	0.00	0.00	500.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	500.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	500.00
3584	-16371	-16370	-16304	-16305	MG	0.00	0.00	500.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	500.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	500.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	500.00
3584	-11048	-11037	-10971	-10972	MG	0.00	0.00	500.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	500.00
3584	-16312	-16311	-16245	-16246	MG	0.00	0.00	500.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	500.00
3584	-16309	-16308	-16242	-16243	MG	0.00	0.00	500.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	500.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	500.00
3584	-15379	-15378	-15312	-15313	MG	0.00	0.00	500.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	500.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	500.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	500.00
3584	-16303	-16302	-16236	-16237	MG	0.00	0.00	500.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	500.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	500.00
3584	-10766	-10765	-10677	-10654	MG	0.00	0.00	500.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	500.00
3584	-16044	-16043	-15977	-15978	MG	0.00	0.00	500.00
3584	-15380	-15379	-15313	-15314	MG	0.00	0.00	500.00
3584	-16609	-16608	-16575	-16576	MG	0.00	0.00	500.00
3584	-10568	-10579	-10483	-10484	MG	0.00	0.00	500.00
3584	-16240	-16239	-16173	-16174	MG	0.00	0.00	500.00
3584	-16540	-16539	-16605	-16606	MG	0.00	0.00	500.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	500.00
3584	-16440	-16439	-16373	-16374	MG	0.00	0.00	500.00
3584	-16042	-16041	-15975	-15976	MG	0.00	0.00	500.00
3584	-16182	-16181	-16115	-16116	MG	0.00	0.00	500.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	500.00
3584	-10692	-10691	-10578	-10579	MG	0.00	0.00	500.00
3584	-10579	-10578	-10482	-10483	MG	0.00	0.00	500.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	500.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	500.00
3584	-16541	-16540	-16606	-16607	MG	0.00	0.00	500.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	500.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	500.00
3584	-16171	-16170	-16104	-16105	MG	0.00	0.00	500.00
3584	-16116	-16115	-16049	-16050	MG	0.00	0.00	500.00
3584	-10578	-10630	-10481	-10482	MG	0.00	0.00	500.00
3584	-10482	-10481	-10411	-10412	MG	0.00	0.00	500.00

3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	500.00
3584	-11119	-11118	-11056	-11057	MG	0.00	0.00	500.00
3584	-11057	-11056	-10975	-10976	MG	0.00	0.00	500.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	500.00
3584	-10910	-10909	-10833	-10834	MG	0.00	0.00	500.00
3584	-16108	-16107	-16041	-16042	MG	0.00	0.00	500.00
3584	-16441	-16440	-16374	-16375	MG	0.00	0.00	500.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	500.00
3584	-16050	-16049	-15983	-15984	MG	0.00	0.00	500.00
3584	-11120	-11119	-11057	-11058	MG	0.00	0.00	500.00
3584	-11058	-11057	-10976	-10977	MG	0.00	0.00	500.00
3584	-10977	-10976	-10910	-10917	MG	0.00	0.00	500.00
3584	-16045	-16044	-15978	-15979	MG	0.00	0.00	500.00
3584	-16245	-16244	-16178	-16179	MG	0.00	0.00	500.00
3584	-10770	-10769	-10692	-10679	MG	0.00	0.00	500.00
3584	-10679	-10692	-10579	-10568	MG	0.00	0.00	500.00
3584	-16610	-16609	-16576	-16577	MG	0.00	0.00	500.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	500.00
3584	-10414	-10413	-10335	-10336	MG	0.00	0.00	500.00
3584	-13646	-13645	-13579	-13580	MG	0.00	0.00	500.00
3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	500.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-13844	-13843	-13777	-13778	MG	0.00	0.00	500.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	500.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	500.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	500.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	500.00
3584	-16375	-16374	-16308	-16309	MG	0.00	0.00	500.00
3584	-16475	-16474	-16540	-16541	MG	0.00	0.00	500.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	500.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	500.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	500.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	500.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	500.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	500.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	500.00
3584	-16538	-16537	-16603	-16604	MG	0.00	0.00	500.00
3584	-16311	-16310	-16244	-16245	MG	0.00	0.00	500.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	500.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	500.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	500.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	500.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	500.00
3584	-16504	-16503	-16437	-16438	MG	0.00	0.00	500.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	500.00
3584	-16376	-16375	-16309	-16310	MG	0.00	0.00	500.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	500.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	500.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	500.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	500.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	500.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	500.00
3584	-15384	-15383	-15317	-15318	MG	0.00	0.00	500.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	500.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	500.00
3584	-13442	-13441	-13369	-13370	MG	0.00	0.00	500.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	500.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	500.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	500.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	500.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	500.00
3584	-15383	-15382	-15316	-15317	MG	0.00	0.00	500.00
3584	-16177	-16176	-16110	-16111	MG	0.00	0.00	500.00
3584	-15101	-15162	-15161	-15100	MG	0.00	0.00	500.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	500.00
3584	-16373	-16372	-16306	-16307	MG	0.00	0.00	500.00
3584	-16372	-16371	-16305	-16306	MG	0.00	0.00	500.00
3584	-16402	-16401	-16467	-16468	MG	0.00	0.00	500.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	500.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	500.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	500.00
3584	-16512	-16511	-16445	-16446	MG	0.00	0.00	500.00
3584	-16511	-16510	-16444	-16445	MG	0.00	0.00	500.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	500.00

3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	500.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	500.00
3584	-16114	-16113	-16047	-16048	MG	0.00	0.00	500.00
3584	-16110	-16109	-16043	-16044	MG	0.00	0.00	500.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	500.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	500.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	500.00
3584	-16535	-16534	-16600	-16601	MG	0.00	0.00	500.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	500.00
3584	-16543	-16542	-16608	-16609	MG	0.00	0.00	500.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	500.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	500.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	500.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	500.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	500.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	500.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	500.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	500.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	500.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	500.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	500.00
3584	-16477	-16476	-16542	-16543	MG	0.00	0.00	500.00
3584	-16313	-16312	-16246	-16247	MG	0.00	0.00	500.00
3584	-16111	-16110	-16044	-16045	MG	0.00	0.00	500.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	500.00
3584	-16469	-16468	-16534	-16535	MG	0.00	0.00	500.00
3584	-14592	-14591	-14521	-14522	MG	0.00	0.00	500.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	500.00
3584	-16505	-16504	-16438	-16439	MG	0.00	0.00	500.00
3584	-16413	-16412	-16478	-16479	MG	0.00	0.00	500.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	500.00
3584	-16370	-16369	-16303	-16304	MG	0.00	0.00	500.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	500.00
3584	-13710	-13709	-13643	-13644	MG	0.00	0.00	500.00
3584	-15452	-15451	-15385	-15386	MG	0.00	0.00	500.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	500.00
3584	-14522	-14521	-14455	-14456	MG	0.00	0.00	500.00
3584	-16047	-16046	-15980	-15981	MG	0.00	0.00	500.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	500.00
3584	-13982	-13981	-13911	-13912	MG	0.00	0.00	500.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	500.00
3584	-13911	-13910	-13842	-13843	MG	0.00	0.00	500.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	500.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	500.00
3584	-13981	-13980	-13910	-13911	MG	0.00	0.00	500.00
3584	-16105	-16104	-16038	-16039	MG	0.00	0.00	500.00
3584	-16501	-16500	-16434	-16435	MG	0.00	0.00	500.00
3584	-16048	-16047	-15981	-15982	MG	0.00	0.00	500.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	500.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	500.00
3584	-16502	-16501	-16435	-16436	MG	0.00	0.00	500.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	500.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	500.00
3630	-15670	-15671	-15737	-15736	MG	0.00	0.00	500.00
3630	-11886	-11887	-11982	-11981	MG	0.00	0.00	500.00
3630	-15801	-15802	-15868	-15867	MG	0.00	0.00	500.00
3630	-12238	-12239	-12311	-12310	MG	0.00	0.00	500.00
3630	-15407	-15408	-15474	-15473	MG	0.00	0.00	500.00
3630	-15538	-15539	-15605	-15604	MG	0.00	0.00	500.00
3630	-11071	-11072	-11137	-11136	MG	0.00	0.00	500.00
3630	-13937	-13938	-14008	-14007	MG	0.00	0.00	500.00
3630	-14142	-14143	-14209	-14208	MG	0.00	0.00	500.00
3630	-15605	-15606	-15672	-15671	MG	0.00	0.00	500.00
3630	-14144	-14145	-14211	-14210	MG	0.00	0.00	500.00
3630	-15274	-15275	-15341	-15340	MG	0.00	0.00	500.00
3630	-11972	-11981	-12100	-12099	MG	0.00	0.00	500.00
3630	-15472	-15473	-15539	-15538	MG	0.00	0.00	500.00
3630	-10655	-10703	-10788	-10787	MG	0.00	0.00	500.00
3630	-11073	-11074	-11139	-11138	MG	0.00	0.00	500.00
3630	-15275	-15276	-15342	-15341	MG	0.00	0.00	500.00
3630	-14078	-14079	-14143	-14142	MG	0.00	0.00	500.00
3630	-14208	-14209	-14275	-14274	MG	0.00	0.00	500.00
3630	-14956	-14955	-15021	-15022	MG	0.00	0.00	500.00
3630	-10442	-10443	-10504	-10503	MG	0.00	0.00	500.00
3630	-10502	-10503	-10618	-10617	MG	0.00	0.00	500.00
3630	-15737	-15738	-15804	-15803	MG	0.00	0.00	500.00
3630	-10293	-10294	-10365	-10364	MG	0.00	0.00	500.00
3630	-12752	-12753	-12823	-12822	MG	0.00	0.00	500.00
3630	-15473	-15474	-15540	-15539	MG	0.00	0.00	500.00

3630	-15655	-15654	-15720	-15721	MG	0.00	0.00	500.00
3630	-12517	-12530	-12608	-12607	MG	0.00	0.00	500.00
3630	-16001	-16002	-16068	-16067	MG	0.00	0.00	500.00
3630	-14759	-14758	-14824	-14825	MG	0.00	0.00	500.00
3630	-15802	-15803	-15869	-15868	MG	0.00	0.00	500.00
3630	-10503	-10504	-10591	-10618	MG	0.00	0.00	500.00
3630	-15869	-15870	-15937	-15936	MG	0.00	0.00	500.00
3630	-11756	-11757	-11823	-11822	MG	0.00	0.00	500.00
3630	-13331	-13332	-13399	-13398	MG	0.00	0.00	500.00
3630	-15803	-15804	-15870	-15869	MG	0.00	0.00	500.00
3630	-15656	-15655	-15721	-15722	MG	0.00	0.00	500.00
3630	-15722	-15721	-15787	-15788	MG	0.00	0.00	500.00
3630	-10424	-10425	-10502	-10501	MG	0.00	0.00	500.00
3630	-10364	-10365	-10443	-10442	MG	0.00	0.00	500.00
3630	-14825	-14824	-14890	-14891	MG	0.00	0.00	500.00
3630	-15800	-15801	-15867	-15866	MG	0.00	0.00	500.00
3630	-15668	-15669	-15735	-15734	MG	0.00	0.00	500.00
3630	-15459	-15458	-15524	-15525	MG	0.00	0.00	500.00
3630	-15525	-15524	-15590	-15591	MG	0.00	0.00	500.00
3630	-15591	-15590	-15656	-15657	MG	0.00	0.00	500.00
3630	-14891	-14890	-14956	-14957	MG	0.00	0.00	500.00
3630	-16000	-16001	-16067	-16066	MG	0.00	0.00	500.00
3630	-15341	-15342	-15408	-15407	MG	0.00	0.00	500.00
3630	-13939	-13940	-14010	-14009	MG	0.00	0.00	500.00
3630	-13471	-13472	-13542	-13541	MG	0.00	0.00	500.00
3630	-13470	-13471	-13541	-13540	MG	0.00	0.00	500.00
3630	-16199	-16200	-16266	-16265	MG	0.00	0.00	500.00
3630	-15073	-15074	-15144	-15143	MG	0.00	0.00	500.00
3630	-15074	-15075	-15145	-15144	MG	0.00	0.00	500.00
3630	-14876	-14877	-14943	-14942	MG	0.00	0.00	500.00
3630	-15671	-15672	-15738	-15737	MG	0.00	0.00	500.00
3630	-15736	-15737	-15803	-15802	MG	0.00	0.00	500.00
3630	-15866	-15867	-15934	-15933	MG	0.00	0.00	500.00
3630	-15539	-15540	-15606	-15605	MG	0.00	0.00	500.00
3630	-15604	-15605	-15671	-15670	MG	0.00	0.00	500.00
3630	-13055	-13056	-13118	-13119	MG	0.00	0.00	500.00
3630	-12680	-12681	-12752	-12751	MG	0.00	0.00	500.00
3630	-14678	-14679	-14745	-14744	MG	0.00	0.00	500.00
3630	-12529	-12517	-12607	-12606	MG	0.00	0.00	500.00
3630	-11269	-11270	-11342	-11341	MG	0.00	0.00	500.00
3630	-14875	-14876	-14942	-14941	MG	0.00	0.00	500.00
3630	-11885	-11886	-11981	-11972	MG	0.00	0.00	500.00
3630	-14692	-14691	-14757	-14758	MG	0.00	0.00	500.00
3630	-14143	-14144	-14210	-14209	MG	0.00	0.00	500.00
3630	-16067	-16068	-16134	-16133	MG	0.00	0.00	500.00
3630	-11754	-11755	-11821	-11820	MG	0.00	0.00	500.00
3630	-10704	-10705	-10790	-10789	MG	0.00	0.00	500.00
3630	-12751	-12752	-12822	-12821	MG	0.00	0.00	500.00
3630	-14064	-14080	-14145	-14144	MG	0.00	0.00	500.00
3630	-14013	-14012	-14081	-14066	MG	0.00	0.00	500.00
3630	-14273	-14274	-14340	-14339	MG	0.00	0.00	500.00
3630	-15071	-15072	-15142	-15141	MG	0.00	0.00	500.00
3630	-12378	-12379	-12445	-12444	MG	0.00	0.00	500.00
3630	-12442	-12443	-12517	-12529	MG	0.00	0.00	500.00
3630	-15867	-15868	-15935	-15934	MG	0.00	0.00	500.00
3630	-13870	-13871	-13939	-13938	MG	0.00	0.00	500.00
3630	-13673	-13674	-13740	-13739	MG	0.00	0.00	500.00
3630	-13738	-13739	-13805	-13804	MG	0.00	0.00	500.00
3630	-12066	-12099	-12161	-12145	MG	0.00	0.00	500.00
3630	-13739	-13740	-13806	-13805	MG	0.00	0.00	500.00
3630	-13607	-13608	-13674	-13673	MG	0.00	0.00	500.00
3630	-13399	-13400	-13472	-13471	MG	0.00	0.00	500.00
3630	-15945	-15944	-16010	-16011	MG	0.00	0.00	500.00
3630	-15273	-15274	-15340	-15339	MG	0.00	0.00	500.00
3630	-11755	-11756	-11822	-11821	MG	0.00	0.00	500.00
3630	-11820	-11821	-11867	-11884	MG	0.00	0.00	500.00
3630	-14473	-14474	-14540	-14539	MG	0.00	0.00	500.00
3630	-13332	-13333	-13400	-13399	MG	0.00	0.00	500.00
3630	-12099	-12100	-12186	-12161	MG	0.00	0.00	500.00
3630	-14090	-14089	-14157	-14158	MG	0.00	0.00	500.00
3630	-11270	-11271	-11343	-11342	MG	0.00	0.00	500.00
3630	-16332	-16333	-16399	-16398	MG	0.00	0.00	500.00
3630	-13936	-13937	-14007	-14006	MG	0.00	0.00	500.00
3630	-15589	-15588	-15654	-15655	MG	0.00	0.00	500.00
3630	-14225	-14224	-14290	-14291	MG	0.00	0.00	500.00
3630	-12824	-12825	-12895	-12894	MG	0.00	0.00	500.00
3630	-12893	-12894	-12976	-12975	MG	0.00	0.00	500.00
3630	-11204	-11205	-11271	-11270	MG	0.00	0.00	500.00
3630	-15143	-15144	-15208	-15207	MG	0.00	0.00	500.00



3630	-16134	-16135	-16201	-16200	MG	0.00	0.00	500.00
3630	-15935	-15936	-16002	-16001	MG	0.00	0.00	500.00
3630	-10703	-10704	-10789	-10788	MG	0.00	0.00	500.00
3630	-16002	-16003	-16069	-16068	MG	0.00	0.00	500.00
3630	-11616	-11617	-11689	-11688	MG	0.00	0.00	500.00
3630	-11476	-11477	-11547	-11546	MG	0.00	0.00	500.00
3630	-11340	-11341	-11407	-11406	MG	0.00	0.00	500.00
3630	-11202	-11203	-11269	-11268	MG	0.00	0.00	500.00
3630	-12239	-12240	-12312	-12311	MG	0.00	0.00	500.00
3630	-12310	-12311	-12379	-12378	MG	0.00	0.00	500.00
3630	-15406	-15407	-15473	-15472	MG	0.00	0.00	500.00
3630	-12100	-12036	-12162	-12186	MG	0.00	0.00	500.00
3630	-12161	-12186	-12239	-12238	MG	0.00	0.00	500.00
3630	-12186	-12162	-12240	-12239	MG	0.00	0.00	500.00
3630	-14284	-14283	-14349	-14350	MG	0.00	0.00	500.00
3630	-14283	-14282	-14348	-14349	MG	0.00	0.00	500.00
3630	-15536	-15537	-15603	-15602	MG	0.00	0.00	500.00
3630	-14957	-14956	-15022	-15023	MG	0.00	0.00	500.00
3630	-15340	-15341	-15407	-15406	MG	0.00	0.00	500.00
3630	-15144	-15145	-15209	-15208	MG	0.00	0.00	500.00
3630	-11619	-11620	-11692	-11691	MG	0.00	0.00	500.00
3630	-14158	-14157	-14223	-14224	MG	0.00	0.00	500.00
3630	-12975	-12976	-13055	-13054	MG	0.00	0.00	500.00
3630	-13117	-13129	-13197	-13196	MG	0.00	0.00	500.00
3630	-13539	-13540	-13606	-13605	MG	0.00	0.00	500.00
3630	-13604	-13605	-13671	-13670	MG	0.00	0.00	500.00
3630	-14339	-14340	-14406	-14405	MG	0.00	0.00	500.00
3630	-12976	-12963	-13056	-13055	MG	0.00	0.00	500.00
3630	-13197	-13198	-13264	-13263	MG	0.00	0.00	500.00
3630	-14077	-14078	-14142	-14141	MG	0.00	0.00	500.00
3630	-14346	-14345	-14411	-14412	MG	0.00	0.00	500.00
3630	-13054	-13055	-13129	-13117	MG	0.00	0.00	500.00
3630	-14677	-14678	-14744	-14743	MG	0.00	0.00	500.00
3630	-13085	-13117	-13196	-13195	MG	0.00	0.00	500.00
3630	-13194	-13195	-13261	-13260	MG	0.00	0.00	500.00
3630	-11268	-11269	-11341	-11340	MG	0.00	0.00	500.00
3630	-14743	-14744	-14810	-14809	MG	0.00	0.00	500.00
3630	-11072	-11073	-11138	-11137	MG	0.00	0.00	500.00
3630	-15007	-15008	-15074	-15073	MG	0.00	0.00	500.00
3630	-15458	-15457	-15523	-15524	MG	0.00	0.00	500.00
3630	-12892	-12893	-12975	-12974	MG	0.00	0.00	500.00
3630	-16263	-16264	-16330	-16329	MG	0.00	0.00	500.00
3630	-16264	-16265	-16331	-16330	MG	0.00	0.00	500.00
3630	-16066	-16067	-16133	-16132	MG	0.00	0.00	500.00
3630	-16131	-16132	-16198	-16197	MG	0.00	0.00	500.00
3630	-16132	-16133	-16199	-16198	MG	0.00	0.00	500.00
3630	-15934	-15935	-16001	-16000	MG	0.00	0.00	500.00
3630	-15999	-16000	-16066	-16065	MG	0.00	0.00	500.00
3630	-16119	-16118	-16184	-16185	MG	0.00	0.00	500.00
3630	-16185	-16184	-16250	-16251	MG	0.00	0.00	500.00
3630	-16251	-16250	-16316	-16317	MG	0.00	0.00	500.00
3630	-16317	-16316	-16382	-16383	MG	0.00	0.00	500.00
3630	-15669	-15670	-15736	-15735	MG	0.00	0.00	500.00
3630	-12309	-12310	-12378	-12377	MG	0.00	0.00	500.00
3630	-13876	-13944	-13945	-13877	MG	0.00	0.00	500.00
3630	-15537	-15538	-15604	-15603	MG	0.00	0.00	500.00
3630	-15924	-15990	-15991	-15925	MG	0.00	0.00	500.00
3630	-15603	-15604	-15670	-15669	MG	0.00	0.00	500.00
3630	-14159	-14158	-14224	-14225	MG	0.00	0.00	500.00
3630	-15470	-15471	-15537	-15536	MG	0.00	0.00	500.00
3630	-15471	-15472	-15538	-15537	MG	0.00	0.00	500.00
3630	-16318	-16317	-16383	-16384	MG	0.00	0.00	500.00
3630	-14341	-14342	-14408	-14407	MG	0.00	0.00	500.00
3630	-11617	-11618	-11690	-11689	MG	0.00	0.00	500.00
3630	-14471	-14472	-14538	-14537	MG	0.00	0.00	500.00
3630	-11689	-11690	-11756	-11755	MG	0.00	0.00	500.00
3630	-11205	-11206	-11272	-11271	MG	0.00	0.00	500.00
3630	-15006	-15007	-15073	-15072	MG	0.00	0.00	500.00
3630	-16121	-16120	-16186	-16187	MG	0.00	0.00	500.00
3630	-15072	-15073	-15143	-15142	MG	0.00	0.00	500.00
3630	-14874	-14875	-14941	-14940	MG	0.00	0.00	500.00
3630	-14939	-14940	-15006	-15005	MG	0.00	0.00	500.00
3630	-16200	-16201	-16267	-16266	MG	0.00	0.00	500.00
3630	-12683	-12684	-12755	-12754	MG	0.00	0.00	500.00
3630	-16266	-16267	-16333	-16332	MG	0.00	0.00	500.00
3630	-12754	-12755	-12825	-12824	MG	0.00	0.00	500.00
3630	-12531	-12532	-12610	-12609	MG	0.00	0.00	500.00
3630	-12608	-12609	-12683	-12682	MG	0.00	0.00	500.00
3630	-15936	-15937	-16003	-16002	MG	0.00	0.00	500.00

3630	-14472	-14473	-14539	-14538	MG	0.00	0.00	500.00
3630	-14537	-14538	-14608	-14607	MG	0.00	0.00	500.00
3630	-14538	-14539	-14609	-14608	MG	0.00	0.00	500.00
3630	-15868	-15869	-15936	-15935	MG	0.00	0.00	500.00
3630	-14405	-14406	-14472	-14471	MG	0.00	0.00	500.00
3630	-13879	-13947	-13948	-13880	MG	0.00	0.00	500.00
3630	-13272	-13341	-13342	-13273	MG	0.00	0.00	500.00
3630	-15156	-15155	-15221	-15222	MG	0.00	0.00	500.00
3630	-15222	-15221	-15288	-15289	MG	0.00	0.00	500.00
3630	-16123	-16122	-16188	-16189	MG	0.00	0.00	500.00
3630	-14141	-14142	-14208	-14207	MG	0.00	0.00	500.00
3630	-16255	-16254	-16320	-16321	MG	0.00	0.00	500.00
3630	-16321	-16320	-16386	-16387	MG	0.00	0.00	500.00
3630	-13748	-13814	-13815	-13749	MG	0.00	0.00	500.00
3630	-14007	-14008	-14079	-14078	MG	0.00	0.00	500.00
3630	-15089	-15088	-15156	-15157	MG	0.00	0.00	500.00
3630	-13868	-13869	-13937	-13936	MG	0.00	0.00	500.00
3630	-13869	-13870	-13938	-13937	MG	0.00	0.00	500.00
3630	-13671	-13672	-13738	-13737	MG	0.00	0.00	500.00
3630	-15208	-15209	-15276	-15275	MG	0.00	0.00	500.00
3630	-15008	-15009	-15075	-15074	MG	0.00	0.00	500.00
3630	-13952	-13951	-14021	-14022	MG	0.00	0.00	500.00
3630	-13950	-13949	-14019	-14020	MG	0.00	0.00	500.00
3630	-13605	-13606	-13672	-13671	MG	0.00	0.00	500.00
3630	-14207	-14208	-14274	-14273	MG	0.00	0.00	500.00
3630	-14942	-14943	-15009	-15008	MG	0.00	0.00	500.00
3630	-14744	-14745	-14811	-14810	MG	0.00	0.00	500.00
3630	-11271	-11272	-11344	-11343	MG	0.00	0.00	500.00
3630	-14610	-14611	-14679	-14678	MG	0.00	0.00	500.00
3630	-13944	-13943	-14013	-14014	MG	0.00	0.00	500.00
3630	-13943	-13942	-14012	-14013	MG	0.00	0.00	500.00
3630	-16265	-16266	-16332	-16331	MG	0.00	0.00	500.00
3630	-14474	-14475	-14541	-14540	MG	0.00	0.00	500.00
3630	-14609	-14610	-14678	-14677	MG	0.00	0.00	500.00
3630	-16133	-16134	-16200	-16199	MG	0.00	0.00	500.00
3630	-12891	-12892	-12974	-12973	MG	0.00	0.00	500.00
3630	-15928	-15927	-15993	-15994	MG	0.00	0.00	500.00
3630	-14408	-14409	-14475	-14474	MG	0.00	0.00	500.00
3630	-14210	-14211	-14277	-14276	MG	0.00	0.00	500.00
3630	-14275	-14276	-14342	-14341	MG	0.00	0.00	500.00
3630	-14276	-14277	-14343	-14342	MG	0.00	0.00	500.00
3630	-13619	-13685	-13686	-13620	MG	0.00	0.00	500.00
3630	-16324	-16323	-16389	-16390	MG	0.00	0.00	500.00
3630	-14091	-14090	-14158	-14159	MG	0.00	0.00	500.00
3630	-12607	-12608	-12682	-12681	MG	0.00	0.00	500.00
3630	-14008	-14009	-14064	-14079	MG	0.00	0.00	500.00
3630	-14009	-14010	-14080	-14064	MG	0.00	0.00	500.00
3630	-13805	-13806	-13872	-13871	MG	0.00	0.00	500.00
3630	-14086	-14085	-14153	-14154	MG	0.00	0.00	500.00
3630	-13871	-13872	-13940	-13939	MG	0.00	0.00	500.00
3630	-14084	-14083	-14151	-14152	MG	0.00	0.00	500.00
3630	-14083	-14067	-14150	-14151	MG	0.00	0.00	500.00
3630	-14067	-14082	-14149	-14150	MG	0.00	0.00	500.00
3630	-13541	-13542	-13608	-13607	MG	0.00	0.00	500.00
3630	-15405	-15406	-15472	-15471	MG	0.00	0.00	500.00
3630	-11980	-12010	-12066	-12098	MG	0.00	0.00	500.00
3630	-12010	-11972	-12099	-12066	MG	0.00	0.00	500.00
3630	-14157	-14156	-14222	-14223	MG	0.00	0.00	500.00
3630	-14156	-14155	-14221	-14222	MG	0.00	0.00	500.00
3630	-13263	-13264	-13333	-13332	MG	0.00	0.00	500.00
3630	-14154	-14153	-14219	-14220	MG	0.00	0.00	500.00
3630	-15924	-15923	-15989	-15990	MG	0.00	0.00	500.00
3630	-13129	-13118	-13198	-13197	MG	0.00	0.00	500.00
3630	-13196	-13197	-13263	-13262	MG	0.00	0.00	500.00
3630	-14150	-14149	-14215	-14216	MG	0.00	0.00	500.00
3630	-14149	-14148	-14214	-14215	MG	0.00	0.00	500.00
3630	-14148	-14147	-14213	-14214	MG	0.00	0.00	500.00
3630	-11406	-11407	-11477	-11476	MG	0.00	0.00	500.00
3630	-11407	-11408	-11478	-11477	MG	0.00	0.00	500.00
3630	-11203	-11204	-11270	-11269	MG	0.00	0.00	500.00
3630	-12894	-12895	-12963	-12976	MG	0.00	0.00	500.00
3630	-16261	-16260	-16326	-16327	MG	0.00	0.00	500.00
3630	-14675	-14676	-14742	-14741	MG	0.00	0.00	500.00
3630	-11342	-11343	-11409	-11408	MG	0.00	0.00	500.00
3630	-11478	-11479	-11549	-11548	MG	0.00	0.00	500.00
3630	-11618	-11619	-11691	-11690	MG	0.00	0.00	500.00
3630	-12609	-12610	-12684	-12683	MG	0.00	0.00	500.00
3630	-12379	-12380	-12446	-12445	MG	0.00	0.00	500.00
3630	-12444	-12445	-12531	-12530	MG	0.00	0.00	500.00

3630	-12445	-12446	-12532	-12531	MG	0.00	0.00	500.00
3630	-10809	-10859	-10930	-10929	MG	0.00	0.00	500.00
3630	-10632	-10617	-10703	-10655	MG	0.00	0.00	500.00
3630	-12311	-12312	-12380	-12379	MG	0.00	0.00	500.00
3630	-15058	-15057	-15123	-15124	MG	0.00	0.00	500.00
3630	-15124	-15123	-15191	-15192	MG	0.00	0.00	500.00
3630	-10500	-10501	-10632	-10590	MG	0.00	0.00	500.00
3630	-10501	-10502	-10617	-10632	MG	0.00	0.00	500.00
3630	-10291	-10292	-10363	-10362	MG	0.00	0.00	500.00
3630	-11981	-11982	-12036	-12100	MG	0.00	0.00	500.00
3630	-15404	-15405	-15471	-15470	MG	0.00	0.00	500.00
3630	-15023	-15022	-15088	-15089	MG	0.00	0.00	500.00
3630	-12530	-12531	-12609	-12608	MG	0.00	0.00	500.00
3630	-12682	-12683	-12754	-12753	MG	0.00	0.00	500.00
3630	-12823	-12824	-12894	-12893	MG	0.00	0.00	500.00
3630	-11691	-11692	-11758	-11757	MG	0.00	0.00	500.00
3630	-11479	-11480	-11550	-11549	MG	0.00	0.00	500.00
3630	-11548	-11549	-11619	-11618	MG	0.00	0.00	500.00
3630	-13951	-13950	-14020	-14021	MG	0.00	0.00	500.00
3630	-11343	-11344	-11410	-11409	MG	0.00	0.00	500.00
3630	-11408	-11409	-11479	-11478	MG	0.00	0.00	500.00
3630	-11409	-11410	-11480	-11479	MG	0.00	0.00	500.00
3630	-14347	-14346	-14412	-14413	MG	0.00	0.00	500.00
3630	-13936	-13935	-14005	-14006	MG	0.00	0.00	500.00
3630	-13942	-13941	-14011	-14012	MG	0.00	0.00	500.00
3630	-11074	-11075	-11140	-11139	MG	0.00	0.00	500.00
3630	-11138	-11139	-11205	-11204	MG	0.00	0.00	500.00
3630	-14024	-14023	-14090	-14091	MG	0.00	0.00	500.00
3630	-10931	-10932	-10997	-10996	MG	0.00	0.00	500.00
3630	-14539	-14540	-14610	-14609	MG	0.00	0.00	500.00
3630	-12753	-12754	-12824	-12823	MG	0.00	0.00	500.00
3630	-14407	-14408	-14474	-14473	MG	0.00	0.00	500.00
3630	-10859	-10860	-10931	-10930	MG	0.00	0.00	500.00
3630	-10860	-10861	-10932	-10931	MG	0.00	0.00	500.00
3630	-10618	-10591	-10705	-10704	MG	0.00	0.00	500.00
3630	-10289	3501	-10359	-10360	MG	0.00	0.00	500.00
3630	-10361	-10360	-10441	-10423	MG	0.00	0.00	500.00
3630	-10360	-10359	-10440	-10441	MG	0.00	0.00	500.00
3630	-10423	-10441	-10499	-10500	MG	0.00	0.00	500.00
3630	-14486	-14485	-14551	-14552	MG	0.00	0.00	500.00
3630	-14485	-14484	-14550	-14551	MG	0.00	0.00	500.00
3630	-10363	-10364	-10442	-10425	MG	0.00	0.00	500.00
3630	-10590	-10589	-10701	-10702	MG	0.00	0.00	500.00
3630	-10589	-10588	-10700	-10701	MG	0.00	0.00	500.00
3630	-10702	-10701	-10785	-10786	MG	0.00	0.00	500.00
3630	-10701	-10700	-10784	-10785	MG	0.00	0.00	500.00
3630	-10786	-10785	-10843	-10858	MG	0.00	0.00	500.00
3630	-10785	-10784	-10842	-10843	MG	0.00	0.00	500.00
3630	-10858	-10843	-10928	-10893	MG	0.00	0.00	500.00
3630	-15602	-15603	-15669	-15668	MG	0.00	0.00	500.00
3630	-16054	-16053	-16119	-16120	MG	0.00	0.00	500.00
3630	-14552	-14551	-14621	-14622	MG	0.00	0.00	500.00
3630	-10993	-10992	-11070	-11071	MG	0.00	0.00	500.00
3630	-10992	-10991	-11069	-11070	MG	0.00	0.00	500.00
3630	-13259	-13258	-13327	-13328	MG	0.00	0.00	500.00
3630	-13328	-13327	-13394	-13395	MG	0.00	0.00	500.00
3630	-15339	-15340	-15406	-15405	MG	0.00	0.00	500.00
3630	-14153	-14152	-14218	-14219	MG	0.00	0.00	500.00
3630	-15205	-15206	-15273	-15272	MG	0.00	0.00	500.00
3630	-15206	-15207	-15274	-15273	MG	0.00	0.00	500.00
3630	-16055	-16054	-16120	-16121	MG	0.00	0.00	500.00
3630	-11889	-12011	-11983	-11890	MG	0.00	0.00	500.00
3630	-13801	-13800	-13866	-13867	MG	0.00	0.00	500.00
3630	-13867	-13866	-13934	-13935	MG	0.00	0.00	500.00
3630	-13260	-13259	-13328	-13329	MG	0.00	0.00	500.00
3630	-13329	-13328	-13395	-13396	MG	0.00	0.00	500.00
3630	-13396	-13395	-13467	-13468	MG	0.00	0.00	500.00
3630	-13468	-13467	-13537	-13538	MG	0.00	0.00	500.00
3630	-16068	-16069	-16135	-16134	MG	0.00	0.00	500.00
3630	-14608	-14609	-14677	-14676	MG	0.00	0.00	500.00
3630	-15326	-15325	-15391	-15392	MG	0.00	0.00	500.00
3630	-14676	-14677	-14743	-14742	MG	0.00	0.00	500.00
3630	-13802	-13801	-13867	-13868	MG	0.00	0.00	500.00
3630	-13868	-13867	-13935	-13936	MG	0.00	0.00	500.00
3630	-11753	-11752	-11818	-11819	MG	0.00	0.00	500.00
3630	-11819	-11818	-11882	-11883	MG	0.00	0.00	500.00
3630	-11883	-11882	-12009	-11971	MG	0.00	0.00	500.00
3630	-11971	-12009	-12097	-12065	MG	0.00	0.00	500.00
3630	-12065	-12097	-12160	-12119	MG	0.00	0.00	500.00

3630	-15991	-15990	-16056	-16057	MG	0.00	0.00	500.00
3630	-14274	-14275	-14341	-14340	MG	0.00	0.00	500.00
3630	-10839	-10918	-10919	-10853	MG	0.00	0.00	500.00
3630	-12375	-12374	-12440	-12441	MG	0.00	0.00	500.00
3630	-12441	-12440	-12547	-12528	MG	0.00	0.00	500.00
3630	-11754	-11753	-11819	-11820	MG	0.00	0.00	500.00
3630	-11820	-11819	-11883	-11884	MG	0.00	0.00	500.00
3630	-11884	-11883	-11971	-11980	MG	0.00	0.00	500.00
3630	-11980	-11971	-12065	-12098	MG	0.00	0.00	500.00
3630	-12098	-12065	-12119	-12113	MG	0.00	0.00	500.00
3630	-15157	-15156	-15222	-15223	MG	0.00	0.00	500.00
3630	-15207	-15208	-15275	-15274	MG	0.00	0.00	500.00
3630	-13954	-13953	-14023	-14024	MG	0.00	0.00	500.00
3630	-13737	-13738	-13804	-13803	MG	0.00	0.00	500.00
3630	-16256	-16255	-16321	-16322	MG	0.00	0.00	500.00
3630	-16322	-16321	-16387	-16388	MG	0.00	0.00	500.00
3630	-12605	-12604	-12678	-12679	MG	0.00	0.00	500.00
3630	-14941	-14942	-15008	-15007	MG	0.00	0.00	500.00
3630	-12750	-12749	-12819	-12820	MG	0.00	0.00	500.00
3630	-13469	-13470	-13540	-13539	MG	0.00	0.00	500.00
3630	-14809	-14810	-14876	-14875	MG	0.00	0.00	500.00
3630	-14810	-14811	-14877	-14876	MG	0.00	0.00	500.00
3630	-13330	-13331	-13398	-13397	MG	0.00	0.00	500.00
3630	-13552	-13618	-13619	-13553	MG	0.00	0.00	500.00
3630	-13618	-13684	-13685	-13619	MG	0.00	0.00	500.00
3630	-13195	-13196	-13262	-13261	MG	0.00	0.00	500.00
3630	-12822	-12823	-12893	-12892	MG	0.00	0.00	500.00
3630	-14540	-14541	-14611	-14610	MG	0.00	0.00	500.00
3630	-14342	-14343	-14409	-14408	MG	0.00	0.00	500.00
3630	-12821	-12820	-12890	-12891	MG	0.00	0.00	500.00
3630	-15994	-15993	-16059	-16060	MG	0.00	0.00	500.00
3630	-16060	-16059	-16125	-16126	MG	0.00	0.00	500.00
3630	-12681	-12682	-12753	-12752	MG	0.00	0.00	500.00
3630	-13553	-13619	-13620	-13554	MG	0.00	0.00	500.00
3630	-13194	-13193	-13259	-13260	MG	0.00	0.00	500.00
3630	-11070	-11069	-11134	-11135	MG	0.00	0.00	500.00
3630	-12606	-12607	-12681	-12680	MG	0.00	0.00	500.00
3630	-11201	-11200	-11266	-11267	MG	0.00	0.00	500.00
3630	-12377	-12378	-12444	-12443	MG	0.00	0.00	500.00
3630	-15929	-15928	-15994	-15995	MG	0.00	0.00	500.00
3630	-12443	-12444	-12530	-12517	MG	0.00	0.00	500.00
3630	-12237	-12238	-12310	-12309	MG	0.00	0.00	500.00
3630	-14085	-14084	-14152	-14153	MG	0.00	0.00	500.00
3630	-16193	-16192	-16258	-16259	MG	0.00	0.00	500.00
3630	-16259	-16258	-16324	-16325	MG	0.00	0.00	500.00
3630	-12113	-12145	-12237	-12236	MG	0.00	0.00	500.00
3630	-12145	-12161	-12238	-12237	MG	0.00	0.00	500.00
3630	-13606	-13607	-13673	-13672	MG	0.00	0.00	500.00
3630	-11268	-11267	-11339	-11340	MG	0.00	0.00	500.00
3630	-11340	-11339	-11405	-11406	MG	0.00	0.00	500.00
3630	-15996	-15995	-16061	-16062	MG	0.00	0.00	500.00
3630	-16062	-16061	-16127	-16128	MG	0.00	0.00	500.00
3630	-11821	-11822	-11885	-11867	MG	0.00	0.00	500.00
3630	-16194	-16193	-16259	-16260	MG	0.00	0.00	500.00
3630	-11688	-11689	-11755	-11754	MG	0.00	0.00	500.00
3630	-16326	-16325	-16391	-16392	MG	0.00	0.00	500.00
3630	-11477	-11478	-11548	-11547	MG	0.00	0.00	500.00
3630	-11546	-11547	-11617	-11616	MG	0.00	0.00	500.00
3630	-12036	-12162	-12114	-12067	MG	0.00	0.00	500.00
3630	-11341	-11342	-11408	-11407	MG	0.00	0.00	500.00
3630	-12240	-12312	-12313	-12241	MG	0.00	0.00	500.00
3630	-12312	-12380	-12381	-12313	MG	0.00	0.00	500.00
3630	-12380	-12446	-12447	-12381	MG	0.00	0.00	500.00
3630	-16195	-16194	-16260	-16261	MG	0.00	0.00	500.00
3630	-11759	-11825	-11826	-11760	MG	0.00	0.00	500.00
3630	-16327	-16326	-16392	-16393	MG	0.00	0.00	500.00
3630	-14219	-14218	-14284	-14285	MG	0.00	0.00	500.00
3630	-14218	-14217	-14283	-14284	MG	0.00	0.00	500.00
3630	-14217	-14216	-14282	-14283	MG	0.00	0.00	500.00
3630	-10993	-10994	-11072	-11071	MG	0.00	0.00	500.00
3630	-10994	-10995	-11073	-11072	MG	0.00	0.00	500.00
3630	-10787	-10788	-10859	-10809	MG	0.00	0.00	500.00
3630	-10858	-10809	-10929	-10893	MG	0.00	0.00	500.00
3630	-12447	-12533	-12534	-12448	MG	0.00	0.00	500.00
3630	-13264	-13333	-13334	-13265	MG	0.00	0.00	500.00
3630	-10702	-10655	-10787	-10786	MG	0.00	0.00	500.00
3630	-13400	-13472	-13473	-13401	MG	0.00	0.00	500.00
3630	-13472	-13542	-13543	-13473	MG	0.00	0.00	500.00
3630	-13542	-13608	-13609	-13543	MG	0.00	0.00	500.00

3630	-13608	-13674	-13675	-13609	MG	0.00	0.00	500.00
3630	-13674	-13740	-13741	-13675	MG	0.00	0.00	500.00
3630	-13740	-13806	-13807	-13741	MG	0.00	0.00	500.00
3630	-11757	-11758	-11824	-11823	MG	0.00	0.00	500.00
3630	-15272	-15273	-15339	-15338	MG	0.00	0.00	500.00
3630	-11823	-11824	-11887	-11886	MG	0.00	0.00	500.00
3630	-14356	-14355	-14421	-14422	MG	0.00	0.00	500.00
3630	-11690	-11691	-11757	-11756	MG	0.00	0.00	500.00
3630	-13473	-13543	-13544	-13474	MG	0.00	0.00	500.00
3630	-13543	-13609	-13610	-13544	MG	0.00	0.00	500.00
3630	-13609	-13675	-13676	-13610	MG	0.00	0.00	500.00
3630	-11549	-11550	-11620	-11619	MG	0.00	0.00	500.00
3630	-14730	-14729	-14795	-14796	MG	0.00	0.00	500.00
3630	-14349	-14348	-14414	-14415	MG	0.00	0.00	500.00
3630	-14348	-14347	-14413	-14414	MG	0.00	0.00	500.00
3630	3502	-10376	-10366	-10296	MG	0.00	0.00	500.00
3630	-10365	-10443	-10444	-10375	MG	0.00	0.00	500.00
3630	-10443	-10504	-10505	-10444	MG	0.00	0.00	500.00
3630	-15279	-15278	-15344	-15345	MG	0.00	0.00	500.00
3630	-15259	-15258	-15324	-15325	MG	0.00	0.00	500.00
3630	-11139	-11140	-11206	-11205	MG	0.00	0.00	500.00
3630	-14419	-14418	-14484	-14485	MG	0.00	0.00	500.00
3630	-13750	-13816	-13817	-13751	MG	0.00	0.00	500.00
3630	-10932	-10997	-10998	-10933	MG	0.00	0.00	500.00
3630	-10789	-10790	-10861	-10860	MG	0.00	0.00	500.00
3630	-14415	-14414	-14480	-14481	MG	0.00	0.00	500.00
3630	-10375	-10444	-10426	-10376	MG	0.00	0.00	500.00
3630	-10444	-10505	-10506	-10426	MG	0.00	0.00	500.00
3630	-10505	-10553	-10541	-10506	MG	0.00	0.00	500.00
3630	-10553	-10706	-10707	-10541	MG	0.00	0.00	500.00
3630	-10706	-10791	-10792	-10707	MG	0.00	0.00	500.00
3630	-10791	-10862	-10844	-10792	MG	0.00	0.00	500.00
3630	-10862	-10933	-10934	-10844	MG	0.00	0.00	500.00
3630	-10933	-10998	-10999	-10934	MG	0.00	0.00	500.00
3630	-10998	-11076	-11077	-10999	MG	0.00	0.00	500.00
3630	-12532	-12610	-12611	-12533	MG	0.00	0.00	500.00
3630	-12610	-12684	-12685	-12611	MG	0.00	0.00	500.00
3630	-12684	-12755	-12756	-12685	MG	0.00	0.00	500.00
3630	-12755	-12825	-12826	-12756	MG	0.00	0.00	500.00
3630	-12825	-12895	-12896	-12826	MG	0.00	0.00	500.00
3630	-12895	-12963	-12977	-12896	MG	0.00	0.00	500.00
3630	-12963	-13056	-13057	-12977	MG	0.00	0.00	500.00
3630	-13056	-13118	-13119	-13057	MG	0.00	0.00	500.00
3630	-13118	-13198	-13199	-13119	MG	0.00	0.00	500.00
3630	-13198	-13264	-13265	-13199	MG	0.00	0.00	500.00
3630	-12533	-12611	-12612	-12534	MG	0.00	0.00	500.00
3630	-12611	-12685	-12686	-12612	MG	0.00	0.00	500.00
3630	-12685	-12756	-12757	-12686	MG	0.00	0.00	500.00
3630	-12756	-12826	-12827	-12757	MG	0.00	0.00	500.00
3630	-12826	-12896	-12897	-12827	MG	0.00	0.00	500.00
3630	-12896	-12977	-12964	-12897	MG	0.00	0.00	500.00
3630	-12977	-13057	-13058	-12964	MG	0.00	0.00	500.00
3630	-13057	-13119	-13120	-13058	MG	0.00	0.00	500.00
3630	-13119	-13199	-13200	-13120	MG	0.00	0.00	500.00
3630	-13199	-13265	-13266	-13200	MG	0.00	0.00	500.00
3630	-11075	-11140	-11141	-11076	MG	0.00	0.00	500.00
3630	-11140	-11206	-11207	-11141	MG	0.00	0.00	500.00
3630	-11206	-11272	-11273	-11207	MG	0.00	0.00	500.00
3630	-11272	-11344	-11345	-11273	MG	0.00	0.00	500.00
3630	-11344	-11410	-11411	-11345	MG	0.00	0.00	500.00
3630	-11410	-11480	-11481	-11411	MG	0.00	0.00	500.00
3630	-11480	-11550	-11551	-11481	MG	0.00	0.00	500.00
3630	-11550	-11620	-11621	-11551	MG	0.00	0.00	500.00
3630	-11620	-11692	-11693	-11621	MG	0.00	0.00	500.00
3630	-11692	-11758	-11759	-11693	MG	0.00	0.00	500.00
3630	-11076	-11141	-11142	-11077	MG	0.00	0.00	500.00
3630	-11141	-11207	-11208	-11142	MG	0.00	0.00	500.00
3630	-11207	-11273	-11274	-11208	MG	0.00	0.00	500.00
3630	-11273	-11345	-11346	-11274	MG	0.00	0.00	500.00
3630	-16331	-16332	-16398	-16397	MG	0.00	0.00	500.00
3630	-15022	-15021	-15087	-15088	MG	0.00	0.00	500.00
3630	-15088	-15087	-15155	-15156	MG	0.00	0.00	500.00
3630	-16329	-16330	-16396	-16395	MG	0.00	0.00	500.00
3630	-16197	-16198	-16264	-16263	MG	0.00	0.00	500.00
3630	-16065	-16066	-16132	-16131	MG	0.00	0.00	500.00
3630	-15933	-15934	-16000	-15999	MG	0.00	0.00	500.00
3630	-10292	-10293	-10364	-10363	MG	0.00	0.00	500.00
3630	-10425	-10442	-10503	-10502	MG	0.00	0.00	500.00
3630	-10617	-10618	-10704	-10703	MG	0.00	0.00	500.00

3630	-10788	-10789	-10860	-10859	MG	0.00	0.00	500.00
3630	-10930	-10931	-10996	-10995	MG	0.00	0.00	500.00
3630	-13262	-13263	-13332	-13331	MG	0.00	0.00	500.00
3630	-13342	-13409	-13410	-13343	MG	0.00	0.00	500.00
3630	-13409	-13481	-13482	-13410	MG	0.00	0.00	500.00
3630	-13736	-13737	-13803	-13802	MG	0.00	0.00	500.00
3630	-13804	-13805	-13871	-13870	MG	0.00	0.00	500.00
3630	-10290	-10291	-10362	-10361	MG	0.00	0.00	500.00
3630	-10423	-10424	-10501	-10500	MG	0.00	0.00	500.00
3630	-10590	-10632	-10655	-10702	MG	0.00	0.00	500.00
3630	-10786	-10787	-10809	-10858	MG	0.00	0.00	500.00
3630	-10893	-10929	-10994	-10993	MG	0.00	0.00	500.00
3630	-15141	-15142	-15206	-15205	MG	0.00	0.00	500.00
3630	-13261	-13262	-13331	-13330	MG	0.00	0.00	500.00
3630	-13329	-13330	-13397	-13396	MG	0.00	0.00	500.00
3630	-14741	-14742	-14808	-14807	MG	0.00	0.00	500.00
3630	-14607	-14608	-14676	-14675	MG	0.00	0.00	500.00
3630	-13802	-13803	-13869	-13868	MG	0.00	0.00	500.00
3630	-13670	-13671	-13737	-13736	MG	0.00	0.00	500.00
3630	-13538	-13539	-13605	-13604	MG	0.00	0.00	500.00
3630	-13396	-13397	-13469	-13468	MG	0.00	0.00	500.00
3630	-13260	-13261	-13330	-13329	MG	0.00	0.00	500.00
3630	-12376	-12377	-12443	-12442	MG	0.00	0.00	500.00
3630	-12236	-12237	-12309	-12308	MG	0.00	0.00	500.00
3630	-12098	-12066	-12145	-12113	MG	0.00	0.00	500.00
3630	-11884	-11867	-12010	-11980	MG	0.00	0.00	500.00
3630	-15338	-15337	-15403	-15404	MG	0.00	0.00	500.00
3630	-15404	-15403	-15469	-15470	MG	0.00	0.00	500.00
3630	-15470	-15469	-15535	-15536	MG	0.00	0.00	500.00
3630	-15536	-15535	-15601	-15602	MG	0.00	0.00	500.00
3630	-15602	-15601	-15667	-15668	MG	0.00	0.00	500.00
3630	-15668	-15667	-15733	-15734	MG	0.00	0.00	500.00
3630	-15734	-15733	-15799	-15800	MG	0.00	0.00	500.00
3630	-15800	-15799	-15865	-15866	MG	0.00	0.00	500.00
3630	-15866	-15865	-15932	-15933	MG	0.00	0.00	500.00
3630	-12308	-12309	-12377	-12376	MG	0.00	0.00	500.00
3630	-15998	-15997	-16063	-16064	MG	0.00	0.00	500.00
3630	-16064	-16063	-16129	-16130	MG	0.00	0.00	500.00
3630	-16130	-16129	-16195	-16196	MG	0.00	0.00	500.00
3630	-16196	-16195	-16261	-16262	MG	0.00	0.00	500.00
3630	-16262	-16261	-16327	-16328	MG	0.00	0.00	500.00
3630	-16328	-16327	-16393	-16394	MG	0.00	0.00	500.00
3630	-13938	-13939	-14009	-14008	MG	0.00	0.00	500.00
3630	-14079	-14064	-14144	-14143	MG	0.00	0.00	500.00
3630	-14209	-14210	-14276	-14275	MG	0.00	0.00	500.00
3630	-15933	-15932	-15998	-15999	MG	0.00	0.00	500.00
3630	-15999	-15998	-16064	-16065	MG	0.00	0.00	500.00
3630	-16065	-16064	-16130	-16131	MG	0.00	0.00	500.00
3630	-16131	-16130	-16196	-16197	MG	0.00	0.00	500.00
3630	-16197	-16196	-16262	-16263	MG	0.00	0.00	500.00
3630	-16263	-16262	-16328	-16329	MG	0.00	0.00	500.00
3630	-16329	-16328	-16394	-16395	MG	0.00	0.00	500.00
3630	-13128	-13085	-13195	-13194	MG	0.00	0.00	500.00
3630	-12973	-12974	-13053	-13052	MG	0.00	0.00	500.00
3630	-12821	-12822	-12892	-12891	MG	0.00	0.00	500.00
3630	-14606	-14605	-14673	-14674	MG	0.00	0.00	500.00
3630	-14674	-14673	-14739	-14740	MG	0.00	0.00	500.00
3630	-14740	-14739	-14805	-14806	MG	0.00	0.00	500.00
3630	-14806	-14805	-14871	-14872	MG	0.00	0.00	500.00
3630	-14872	-14871	-14937	-14938	MG	0.00	0.00	500.00
3630	-14938	-14937	-15003	-15004	MG	0.00	0.00	500.00
3630	-15004	-15003	-15069	-15070	MG	0.00	0.00	500.00
3630	-15070	-15069	-15129	-15140	MG	0.00	0.00	500.00
3630	-15140	-15129	-15203	-15204	MG	0.00	0.00	500.00
3630	-15204	-15203	-15270	-15271	MG	0.00	0.00	500.00
3630	-14607	-14606	-14674	-14675	MG	0.00	0.00	500.00
3630	-14675	-14674	-14740	-14741	MG	0.00	0.00	500.00
3630	-14741	-14740	-14806	-14807	MG	0.00	0.00	500.00
3630	-14807	-14806	-14872	-14873	MG	0.00	0.00	500.00
3630	-14873	-14872	-14938	-14939	MG	0.00	0.00	500.00
3630	-14939	-14938	-15004	-15005	MG	0.00	0.00	500.00
3630	-15005	-15004	-15070	-15071	MG	0.00	0.00	500.00
3630	-15071	-15070	-15140	-15141	MG	0.00	0.00	500.00
3630	-15141	-15140	-15204	-15205	MG	0.00	0.00	500.00
3630	-15205	-15204	-15271	-15272	MG	0.00	0.00	500.00
3630	-13941	-13940	-14010	-14011	MG	0.00	0.00	500.00
3630	-11822	-11823	-11886	-11885	MG	0.00	0.00	500.00
3630	-14011	-14010	-14080	-14065	MG	0.00	0.00	500.00
3630	-14081	-14065	-14146	-14147	MG	0.00	0.00	500.00

3630	-14065	-14080	-14145	-14146	MG	0.00	0.00	500.00
3630	-14147	-14146	-14212	-14213	MG	0.00	0.00	500.00
3630	-14146	-14145	-14211	-14212	MG	0.00	0.00	500.00
3630	-14213	-14212	-14278	-14279	MG	0.00	0.00	500.00
3630	-14212	-14211	-14277	-14278	MG	0.00	0.00	500.00
3630	-14279	-14278	-14344	-14345	MG	0.00	0.00	500.00
3630	-14278	-14277	-14343	-14344	MG	0.00	0.00	500.00
3630	-14345	-14344	-14410	-14411	MG	0.00	0.00	500.00
3630	-14344	-14343	-14409	-14410	MG	0.00	0.00	500.00
3630	-14411	-14410	-14476	-14477	MG	0.00	0.00	500.00
3630	-14410	-14409	-14475	-14476	MG	0.00	0.00	500.00
3630	-14477	-14476	-14542	-14543	MG	0.00	0.00	500.00
3630	-14476	-14475	-14541	-14542	MG	0.00	0.00	500.00
3630	-14543	-14542	-14612	-14613	MG	0.00	0.00	500.00
3630	-14542	-14541	-14611	-14612	MG	0.00	0.00	500.00
3630	-10995	-10996	-11074	-11073	MG	0.00	0.00	500.00
3630	-10996	-10997	-11075	-11074	MG	0.00	0.00	500.00
3630	-14416	-14415	-14481	-14482	MG	0.00	0.00	500.00
3630	-15475	-15474	-15540	-15541	MG	0.00	0.00	500.00
3630	-15541	-15540	-15606	-15607	MG	0.00	0.00	500.00
3630	-15607	-15606	-15672	-15673	MG	0.00	0.00	500.00
3630	-15673	-15672	-15738	-15739	MG	0.00	0.00	500.00
3630	-15739	-15738	-15804	-15805	MG	0.00	0.00	500.00
3630	-15805	-15804	-15870	-15871	MG	0.00	0.00	500.00
3630	-15871	-15870	-15937	-15938	MG	0.00	0.00	500.00
3630	-15278	-15277	-15343	-15344	MG	0.00	0.00	500.00
3630	-15344	-15343	-15409	-15410	MG	0.00	0.00	500.00
3630	-15410	-15409	-15475	-15476	MG	0.00	0.00	500.00
3630	-15476	-15475	-15541	-15542	MG	0.00	0.00	500.00
3630	-15542	-15541	-15607	-15608	MG	0.00	0.00	500.00
3630	-15608	-15607	-15673	-15674	MG	0.00	0.00	500.00
3630	-15674	-15673	-15739	-15740	MG	0.00	0.00	500.00
3630	-15740	-15739	-15805	-15806	MG	0.00	0.00	500.00
3630	-15806	-15805	-15871	-15872	MG	0.00	0.00	500.00
3630	-15872	-15871	-15938	-15939	MG	0.00	0.00	500.00
3630	-15938	-15937	-16003	-16004	MG	0.00	0.00	500.00
3630	-16004	-16003	-16069	-16070	MG	0.00	0.00	500.00
3630	-16070	-16069	-16135	-16136	MG	0.00	0.00	500.00
3630	-16136	-16135	-16201	-16202	MG	0.00	0.00	500.00
3630	-16202	-16201	-16267	-16268	MG	0.00	0.00	500.00
3630	-16268	-16267	-16333	-16334	MG	0.00	0.00	500.00
3630	-16334	-16333	-16399	-16400	MG	0.00	0.00	500.00
3630	-13395	-13394	-13466	-13467	MG	0.00	0.00	500.00
3630	-13467	-13466	-13536	-13537	MG	0.00	0.00	500.00
3630	-13537	-13536	-13602	-13603	MG	0.00	0.00	500.00
3630	-15939	-15938	-16004	-16005	MG	0.00	0.00	500.00
3630	-16005	-16004	-16070	-16071	MG	0.00	0.00	500.00
3630	-16071	-16070	-16136	-16137	MG	0.00	0.00	500.00
3630	-16137	-16136	-16202	-16203	MG	0.00	0.00	500.00
3630	-16203	-16202	-16268	-16269	MG	0.00	0.00	500.00
3630	-16269	-16268	-16334	-16335	MG	0.00	0.00	500.00
3630	-16335	-16334	-16400	-16401	MG	0.00	0.00	500.00
3630	-15721	-15720	-15786	-15787	MG	0.00	0.00	500.00
3630	-15787	-15786	-15852	-15853	MG	0.00	0.00	500.00
3630	-13538	-13537	-13603	-13604	MG	0.00	0.00	500.00
3630	-14612	-14611	-14679	-14680	MG	0.00	0.00	500.00
3630	-14680	-14679	-14745	-14746	MG	0.00	0.00	500.00
3630	-14746	-14745	-14811	-14812	MG	0.00	0.00	500.00
3630	-14812	-14811	-14877	-14878	MG	0.00	0.00	500.00
3630	-14878	-14877	-14943	-14944	MG	0.00	0.00	500.00
3630	-14944	-14943	-15009	-15010	MG	0.00	0.00	500.00
3630	-15010	-15009	-15075	-15076	MG	0.00	0.00	500.00
3630	-15076	-15075	-15145	-15146	MG	0.00	0.00	500.00
3630	-15146	-15145	-15209	-15210	MG	0.00	0.00	500.00
3630	-15210	-15209	-15276	-15277	MG	0.00	0.00	500.00
3630	-14613	-14612	-14680	-14681	MG	0.00	0.00	500.00
3630	-14681	-14680	-14746	-14747	MG	0.00	0.00	500.00
3630	-14747	-14746	-14812	-14813	MG	0.00	0.00	500.00
3630	-14813	-14812	-14878	-14879	MG	0.00	0.00	500.00
3630	-14879	-14878	-14944	-14945	MG	0.00	0.00	500.00
3630	-14945	-14944	-15010	-15011	MG	0.00	0.00	500.00
3630	-15011	-15010	-15076	-15077	MG	0.00	0.00	500.00
3630	-15077	-15076	-15146	-15147	MG	0.00	0.00	500.00
3630	-15147	-15146	-15210	-15211	MG	0.00	0.00	500.00
3630	-15211	-15210	-15277	-15278	MG	0.00	0.00	500.00
3630	-13398	-13399	-13471	-13470	MG	0.00	0.00	500.00
3630	-13540	-13541	-13607	-13606	MG	0.00	0.00	500.00
3630	-13672	-13673	-13739	-13738	MG	0.00	0.00	500.00
3630	-12376	-12375	-12441	-12442	MG	0.00	0.00	500.00

3630	-12442	-12441	-12528	-12529	MG	0.00	0.00	500.00
3630	-12528	-12547	-12604	-12605	MG	0.00	0.00	500.00
3630	-15658	-15657	-15723	-15724	MG	0.00	0.00	500.00
3630	-12679	-12678	-12749	-12750	MG	0.00	0.00	500.00
3630	-15790	-15789	-15855	-15856	MG	0.00	0.00	500.00
3630	-12820	-12819	-12889	-12890	MG	0.00	0.00	500.00
3630	-15005	-15006	-15072	-15071	MG	0.00	0.00	500.00
3630	-14873	-14874	-14940	-14939	MG	0.00	0.00	500.00
3630	-15395	-15394	-15460	-15461	MG	0.00	0.00	500.00
3630	-13116	-13127	-13192	-13193	MG	0.00	0.00	500.00
3630	-13193	-13192	-13258	-13259	MG	0.00	0.00	500.00
3630	-12529	-12528	-12605	-12606	MG	0.00	0.00	500.00
3630	-12606	-12605	-12679	-12680	MG	0.00	0.00	500.00
3630	-12680	-12679	-12750	-12751	MG	0.00	0.00	500.00
3630	-12751	-12750	-12820	-12821	MG	0.00	0.00	500.00
3630	-15856	-15923	-15924	-15857	MG	0.00	0.00	500.00
3630	-15264	-15263	-15329	-15330	MG	0.00	0.00	500.00
3630	-15330	-15329	-15395	-15396	MG	0.00	0.00	500.00
3630	-15396	-15395	-15461	-15462	MG	0.00	0.00	500.00
3630	-13128	-13116	-13193	-13194	MG	0.00	0.00	500.00
3630	-15528	-15527	-15593	-15594	MG	0.00	0.00	500.00
3630	-15594	-15593	-15659	-15660	MG	0.00	0.00	500.00
3630	-11135	-11134	-11200	-11201	MG	0.00	0.00	500.00
3630	-15726	-15725	-15791	-15792	MG	0.00	0.00	500.00
3630	-11267	-11266	-11338	-11339	MG	0.00	0.00	500.00
3630	-11339	-11338	-11404	-11405	MG	0.00	0.00	500.00
3630	-15265	-15264	-15330	-15331	MG	0.00	0.00	500.00
3630	-15331	-15330	-15396	-15397	MG	0.00	0.00	500.00
3630	-15932	-15931	-15997	-15998	MG	0.00	0.00	500.00
3630	-11615	-11614	-11686	-11687	MG	0.00	0.00	500.00
3630	-11687	-11686	-11752	-11753	MG	0.00	0.00	500.00
3630	-11071	-11070	-11135	-11136	MG	0.00	0.00	500.00
3630	-11136	-11135	-11201	-11202	MG	0.00	0.00	500.00
3630	-11202	-11201	-11267	-11268	MG	0.00	0.00	500.00
3630	-15793	-15792	-15858	-15859	MG	0.00	0.00	500.00
3630	-15859	-15858	-15925	-15926	MG	0.00	0.00	500.00
3630	-11406	-11405	-11475	-11476	MG	0.00	0.00	500.00
3630	-11476	-11475	-11545	-11546	MG	0.00	0.00	500.00
3630	-11546	-11545	-11615	-11616	MG	0.00	0.00	500.00
3630	-11616	-11615	-11687	-11688	MG	0.00	0.00	500.00
3630	-11688	-11687	-11753	-11754	MG	0.00	0.00	500.00
3630	-11824	-11887	-11888	-11825	MG	0.00	0.00	500.00
3630	-11887	-11982	-11939	-11888	MG	0.00	0.00	500.00
3630	-11982	-12036	-12067	-11939	MG	0.00	0.00	500.00
3630	-10494	-10610	-10552	-10495	MG	0.00	0.00	500.00
3630	-12162	-12240	-12241	-12114	MG	0.00	0.00	500.00
3630	-15267	-15266	-15332	-15333	MG	0.00	0.00	500.00
3630	-15333	-15332	-15398	-15399	MG	0.00	0.00	500.00
3630	-15399	-15398	-15464	-15465	MG	0.00	0.00	500.00
3630	-12446	-12532	-12533	-12447	MG	0.00	0.00	500.00
3630	-15531	-15530	-15596	-15597	MG	0.00	0.00	500.00
3630	-11825	-11888	-11898	-11826	MG	0.00	0.00	500.00
3630	-11888	-11939	-11940	-11898	MG	0.00	0.00	500.00
3630	-11939	-12067	-12053	-11940	MG	0.00	0.00	500.00
3630	-12067	-12114	-12163	-12053	MG	0.00	0.00	500.00
3630	-12114	-12241	-12242	-12163	MG	0.00	0.00	500.00
3630	-12241	-12313	-12314	-12242	MG	0.00	0.00	500.00
3630	-12313	-12381	-12382	-12314	MG	0.00	0.00	500.00
3630	-12381	-12447	-12448	-12382	MG	0.00	0.00	500.00
3630	-15466	-15465	-15531	-15532	MG	0.00	0.00	500.00
3630	-15532	-15531	-15597	-15598	MG	0.00	0.00	500.00
3630	-13333	-13400	-13401	-13334	MG	0.00	0.00	500.00
3630	-15664	-15663	-15729	-15730	MG	0.00	0.00	500.00
3630	-15730	-15729	-15795	-15796	MG	0.00	0.00	500.00
3630	-15796	-15795	-15861	-15862	MG	0.00	0.00	500.00
3630	-15862	-15861	-15928	-15929	MG	0.00	0.00	500.00
3630	-15269	-15268	-15334	-15335	MG	0.00	0.00	500.00
3630	-15335	-15334	-15400	-15401	MG	0.00	0.00	500.00
3630	-13806	-13872	-13873	-13807	MG	0.00	0.00	500.00
3630	-13872	-13940	-13941	-13873	MG	0.00	0.00	500.00
3630	-13265	-13334	-13335	-13266	MG	0.00	0.00	500.00
3630	-13334	-13401	-13402	-13335	MG	0.00	0.00	500.00
3630	-13401	-13473	-13474	-13402	MG	0.00	0.00	500.00
3630	-15731	-15730	-15796	-15797	MG	0.00	0.00	500.00
3630	-15797	-15796	-15862	-15863	MG	0.00	0.00	500.00
3630	-15863	-15862	-15929	-15930	MG	0.00	0.00	500.00
3630	-13675	-13741	-13742	-13676	MG	0.00	0.00	500.00
3630	-13741	-13807	-13808	-13742	MG	0.00	0.00	500.00
3630	-13807	-13873	-13874	-13808	MG	0.00	0.00	500.00



3630	-13873	-13941	-13942	-13874	MG	0.00	0.00	500.00
3630	-10294	-10365	-10375	-10295	MG	0.00	0.00	500.00
3630	-15600	-15599	-15665	-15666	MG	0.00	0.00	500.00
3630	-15666	-15665	-15731	-15732	MG	0.00	0.00	500.00
3630	-10504	-10591	-10553	-10505	MG	0.00	0.00	500.00
3630	-10591	-10705	-10706	-10553	MG	0.00	0.00	500.00
3630	-10705	-10790	-10791	-10706	MG	0.00	0.00	500.00
3630	-10790	-10861	-10862	-10791	MG	0.00	0.00	500.00
3630	-10861	-10932	-10933	-10862	MG	0.00	0.00	500.00
3630	-16330	-16331	-16397	-16396	MG	0.00	0.00	500.00
3630	-10997	-11075	-11076	-10998	MG	0.00	0.00	500.00
3630	-10295	-10375	-10376	3502	MG	0.00	0.00	500.00
3630	-16198	-16199	-16265	-16264	MG	0.00	0.00	500.00
3630	-15345	-15344	-15410	-15411	MG	0.00	0.00	500.00
3630	-15411	-15410	-15476	-15477	MG	0.00	0.00	500.00
3630	-15477	-15476	-15542	-15543	MG	0.00	0.00	500.00
3630	-15543	-15542	-15608	-15609	MG	0.00	0.00	500.00
3630	-15609	-15608	-15674	-15675	MG	0.00	0.00	500.00
3630	-15675	-15674	-15740	-15741	MG	0.00	0.00	500.00
3630	-15741	-15740	-15806	-15807	MG	0.00	0.00	500.00
3630	-15807	-15806	-15872	-15873	MG	0.00	0.00	500.00
3630	-15873	-15872	-15939	-15940	MG	0.00	0.00	500.00
3630	-15280	-15279	-15345	-15346	MG	0.00	0.00	500.00
3630	-15346	-15345	-15411	-15412	MG	0.00	0.00	500.00
3630	-15412	-15411	-15477	-15478	MG	0.00	0.00	500.00
3630	-15478	-15477	-15543	-15544	MG	0.00	0.00	500.00
3630	-15544	-15543	-15609	-15610	MG	0.00	0.00	500.00
3630	-15610	-15609	-15675	-15676	MG	0.00	0.00	500.00
3630	-15676	-15675	-15741	-15742	MG	0.00	0.00	500.00
3630	-15742	-15741	-15807	-15808	MG	0.00	0.00	500.00
3630	-15808	-15807	-15873	-15874	MG	0.00	0.00	500.00
3630	-15874	-15873	-15940	-15941	MG	0.00	0.00	500.00
3630	-15281	-15280	-15346	-15347	MG	0.00	0.00	500.00
3630	-15347	-15346	-15412	-15413	MG	0.00	0.00	500.00
3630	-15413	-15412	-15478	-15479	MG	0.00	0.00	500.00
3630	-15479	-15478	-15544	-15545	MG	0.00	0.00	500.00
3630	-15545	-15544	-15610	-15611	MG	0.00	0.00	500.00
3630	-15611	-15610	-15676	-15677	MG	0.00	0.00	500.00
3630	-15677	-15676	-15742	-15743	MG	0.00	0.00	500.00
3630	-15743	-15742	-15808	-15809	MG	0.00	0.00	500.00
3630	-15809	-15808	-15874	-15875	MG	0.00	0.00	500.00
3630	-15875	-15874	-15941	-15942	MG	0.00	0.00	500.00
3630	-15282	-15281	-15347	-15348	MG	0.00	0.00	500.00
3630	-15348	-15347	-15413	-15414	MG	0.00	0.00	500.00
3630	-15414	-15413	-15479	-15480	MG	0.00	0.00	500.00
3630	-15480	-15479	-15545	-15546	MG	0.00	0.00	500.00
3630	-15546	-15545	-15611	-15612	MG	0.00	0.00	500.00
3630	-15612	-15611	-15677	-15678	MG	0.00	0.00	500.00
3630	-15678	-15677	-15743	-15744	MG	0.00	0.00	500.00
3630	-15744	-15743	-15809	-15810	MG	0.00	0.00	500.00
3630	-15810	-15809	-15875	-15876	MG	0.00	0.00	500.00
3630	-15876	-15875	-15942	-15943	MG	0.00	0.00	500.00
3630	-15283	-15282	-15348	-15349	MG	0.00	0.00	500.00
3630	-15349	-15348	-15414	-15415	MG	0.00	0.00	500.00
3630	-15415	-15414	-15480	-15481	MG	0.00	0.00	500.00
3630	-15481	-15480	-15546	-15547	MG	0.00	0.00	500.00
3630	-15547	-15546	-15612	-15613	MG	0.00	0.00	500.00
3630	-15613	-15612	-15678	-15679	MG	0.00	0.00	500.00
3630	-15679	-15678	-15744	-15745	MG	0.00	0.00	500.00
3630	-15745	-15744	-15810	-15811	MG	0.00	0.00	500.00
3630	-15811	-15810	-15876	-15877	MG	0.00	0.00	500.00
3630	-15877	-15876	-15943	-15944	MG	0.00	0.00	500.00
3630	-15284	-15283	-15349	-15350	MG	0.00	0.00	500.00
3630	-15350	-15349	-15415	-15416	MG	0.00	0.00	500.00
3630	-15416	-15415	-15481	-15482	MG	0.00	0.00	500.00
3630	-15482	-15481	-15547	-15548	MG	0.00	0.00	500.00
3630	-15548	-15547	-15613	-15614	MG	0.00	0.00	500.00
3630	-15614	-15613	-15679	-15680	MG	0.00	0.00	500.00
3630	-15680	-15679	-15745	-15746	MG	0.00	0.00	500.00
3630	-15746	-15745	-15811	-15812	MG	0.00	0.00	500.00
3630	-15812	-15811	-15877	-15878	MG	0.00	0.00	500.00
3630	-15878	-15877	-15944	-15945	MG	0.00	0.00	500.00
3630	-15285	-15284	-15350	-15351	MG	0.00	0.00	500.00
3630	-15351	-15350	-15416	-15417	MG	0.00	0.00	500.00
3630	-15417	-15416	-15482	-15483	MG	0.00	0.00	500.00
3630	-15483	-15482	-15548	-15549	MG	0.00	0.00	500.00
3630	-15549	-15548	-15614	-15615	MG	0.00	0.00	500.00
3630	-15615	-15614	-15680	-15681	MG	0.00	0.00	500.00
3630	-15681	-15680	-15746	-15747	MG	0.00	0.00	500.00

3630	-15747	-15746	-15812	-15813	MG	0.00	0.00	500.00
3630	-15813	-15812	-15878	-15879	MG	0.00	0.00	500.00
3630	-15879	-15878	-15945	-15946	MG	0.00	0.00	500.00
3630	-15286	-15285	-15351	-15352	MG	0.00	0.00	500.00
3630	-15352	-15351	-15417	-15418	MG	0.00	0.00	500.00
3630	-15418	-15417	-15483	-15484	MG	0.00	0.00	500.00
3630	-15484	-15483	-15549	-15550	MG	0.00	0.00	500.00
3630	-15550	-15549	-15615	-15616	MG	0.00	0.00	500.00
3630	-15616	-15615	-15681	-15682	MG	0.00	0.00	500.00
3630	-15682	-15681	-15747	-15748	MG	0.00	0.00	500.00
3630	-15748	-15747	-15813	-15814	MG	0.00	0.00	500.00
3630	-15814	-15813	-15879	-15880	MG	0.00	0.00	500.00
3630	-15880	-15879	-15946	-15947	MG	0.00	0.00	500.00
3630	-15287	-15286	-15352	-15353	MG	0.00	0.00	500.00
3630	-15353	-15352	-15418	-15419	MG	0.00	0.00	500.00
3630	-15419	-15418	-15484	-15485	MG	0.00	0.00	500.00
3630	-15485	-15484	-15550	-15551	MG	0.00	0.00	500.00
3630	-15551	-15550	-15616	-15617	MG	0.00	0.00	500.00
3630	-15617	-15616	-15682	-15683	MG	0.00	0.00	500.00
3630	-15683	-15682	-15748	-15749	MG	0.00	0.00	500.00
3630	-15749	-15748	-15814	-15815	MG	0.00	0.00	500.00
3630	-15815	-15814	-15880	-15881	MG	0.00	0.00	500.00
3630	-15881	-15880	-15947	-15948	MG	0.00	0.00	500.00
3630	-15288	-15287	-15353	-15354	MG	0.00	0.00	500.00
3630	-15354	-15353	-15419	-15420	MG	0.00	0.00	500.00
3630	-15420	-15419	-15485	-15486	MG	0.00	0.00	500.00
3630	-15486	-15485	-15551	-15552	MG	0.00	0.00	500.00
3630	-15552	-15551	-15617	-15618	MG	0.00	0.00	500.00
3630	-15618	-15617	-15683	-15684	MG	0.00	0.00	500.00
3630	-15684	-15683	-15749	-15750	MG	0.00	0.00	500.00
3630	-15750	-15749	-15815	-15816	MG	0.00	0.00	500.00
3630	-15816	-15815	-15881	-15882	MG	0.00	0.00	500.00
3630	-15882	-15881	-15948	-15949	MG	0.00	0.00	500.00
3630	-15289	-15288	-15354	-15355	MG	0.00	0.00	500.00
3630	-15355	-15354	-15420	-15421	MG	0.00	0.00	500.00
3630	-15421	-15420	-15486	-15487	MG	0.00	0.00	500.00
3630	-15487	-15486	-15552	-15553	MG	0.00	0.00	500.00
3630	-15553	-15552	-15618	-15619	MG	0.00	0.00	500.00
3630	-15619	-15618	-15684	-15685	MG	0.00	0.00	500.00
3630	-15685	-15684	-15750	-15751	MG	0.00	0.00	500.00
3630	-15751	-15750	-15816	-15817	MG	0.00	0.00	500.00
3630	-15817	-15816	-15882	-15883	MG	0.00	0.00	500.00
3630	-15883	-15882	-15949	-15950	MG	0.00	0.00	500.00
3630	-15290	-15289	-15355	-15356	MG	0.00	0.00	500.00
3630	-15356	-15355	-15421	-15422	MG	0.00	0.00	500.00
3630	-15422	-15421	-15487	-15488	MG	0.00	0.00	500.00
3630	-15488	-15487	-15553	-15554	MG	0.00	0.00	500.00
3630	-15554	-15553	-15619	-15620	MG	0.00	0.00	500.00
3630	-15620	-15619	-15685	-15686	MG	0.00	0.00	500.00
3630	-15686	-15685	-15751	-15752	MG	0.00	0.00	500.00
3630	-15752	-15751	-15817	-15818	MG	0.00	0.00	500.00
3630	-15818	-15817	-15883	-15884	MG	0.00	0.00	500.00
3630	-15884	-15883	-15950	-15951	MG	0.00	0.00	500.00
3630	-15940	-15939	-16005	-16006	MG	0.00	0.00	500.00
3630	-16006	-16005	-16071	-16072	MG	0.00	0.00	500.00
3630	-16072	-16071	-16137	-16138	MG	0.00	0.00	500.00
3630	-16138	-16137	-16203	-16204	MG	0.00	0.00	500.00
3630	-16204	-16203	-16269	-16270	MG	0.00	0.00	500.00
3630	-16270	-16269	-16335	-16336	MG	0.00	0.00	500.00
3630	-16336	-16335	-16401	-16402	MG	0.00	0.00	500.00
3630	-10361	-10362	-10424	-10423	MG	0.00	0.00	500.00
3630	-10362	-10363	-10425	-10424	MG	0.00	0.00	500.00
3630	-14012	-14011	-14065	-14081	MG	0.00	0.00	500.00
3630	-15941	-15940	-16006	-16007	MG	0.00	0.00	500.00
3630	-16007	-16006	-16072	-16073	MG	0.00	0.00	500.00
3630	-16073	-16072	-16138	-16139	MG	0.00	0.00	500.00
3630	-16139	-16138	-16204	-16205	MG	0.00	0.00	500.00
3630	-16205	-16204	-16270	-16271	MG	0.00	0.00	500.00
3630	-16271	-16270	-16336	-16337	MG	0.00	0.00	500.00
3630	-16337	-16336	-16402	-16403	MG	0.00	0.00	500.00
3630	-11740	-11806	-11807	-11741	MG	0.00	0.00	500.00
3630	-10290	-10289	-10360	-10361	MG	0.00	0.00	500.00
3630	-11758	-11824	-11825	-11759	MG	0.00	0.00	500.00
3630	-15942	-15941	-16007	-16008	MG	0.00	0.00	500.00
3630	-16008	-16007	-16073	-16074	MG	0.00	0.00	500.00
3630	-16074	-16073	-16139	-16140	MG	0.00	0.00	500.00
3630	-16140	-16139	-16205	-16206	MG	0.00	0.00	500.00
3630	-16206	-16205	-16271	-16272	MG	0.00	0.00	500.00
3630	-16272	-16271	-16337	-16338	MG	0.00	0.00	500.00

3630	-16338	-16337	-16403	-16404	MG	0.00	0.00	500.00
3630	-15277	-15276	-15342	-15343	MG	0.00	0.00	500.00
3630	-15343	-15342	-15408	-15409	MG	0.00	0.00	500.00
3630	-15409	-15408	-15474	-15475	MG	0.00	0.00	500.00
3630	-15943	-15942	-16008	-16009	MG	0.00	0.00	500.00
3630	-16009	-16008	-16074	-16075	MG	0.00	0.00	500.00
3630	-16075	-16074	-16140	-16141	MG	0.00	0.00	500.00
3630	-16141	-16140	-16206	-16207	MG	0.00	0.00	500.00
3630	-16207	-16206	-16272	-16273	MG	0.00	0.00	500.00
3630	-16273	-16272	-16338	-16339	MG	0.00	0.00	500.00
3630	-16339	-16338	-16404	-16405	MG	0.00	0.00	500.00
3630	-10441	-10440	-10498	-10499	MG	0.00	0.00	500.00
3630	-10500	-10499	-10589	-10590	MG	0.00	0.00	500.00
3630	-10499	-10498	-10588	-10589	MG	0.00	0.00	500.00
3630	-15944	-15943	-16009	-16010	MG	0.00	0.00	500.00
3630	-16010	-16009	-16075	-16076	MG	0.00	0.00	500.00
3630	-16076	-16075	-16141	-16142	MG	0.00	0.00	500.00
3630	-16142	-16141	-16207	-16208	MG	0.00	0.00	500.00
3630	-16208	-16207	-16273	-16274	MG	0.00	0.00	500.00
3630	-16274	-16273	-16339	-16340	MG	0.00	0.00	500.00
3630	-16340	-16339	-16405	-16406	MG	0.00	0.00	500.00
3630	-10843	-10842	-10927	-10928	MG	0.00	0.00	500.00
3630	-10893	-10928	-10992	-10993	MG	0.00	0.00	500.00
3630	-10928	-10927	-10991	-10992	MG	0.00	0.00	500.00
3630	-12525	-12598	-12599	-12514	MG	0.00	0.00	500.00
3630	-16011	-16010	-16076	-16077	MG	0.00	0.00	500.00
3630	-16077	-16076	-16142	-16143	MG	0.00	0.00	500.00
3630	-16143	-16142	-16208	-16209	MG	0.00	0.00	500.00
3630	-16209	-16208	-16274	-16275	MG	0.00	0.00	500.00
3630	-16275	-16274	-16340	-16341	MG	0.00	0.00	500.00
3630	-16341	-16340	-16406	-16407	MG	0.00	0.00	500.00
3630	-13603	-13602	-13668	-13669	MG	0.00	0.00	500.00
3630	-13669	-13668	-13734	-13735	MG	0.00	0.00	500.00
3630	-13735	-13734	-13800	-13801	MG	0.00	0.00	500.00
3630	-15946	-15945	-16011	-16012	MG	0.00	0.00	500.00
3630	-16012	-16011	-16077	-16078	MG	0.00	0.00	500.00
3630	-16078	-16077	-16143	-16144	MG	0.00	0.00	500.00
3630	-16144	-16143	-16209	-16210	MG	0.00	0.00	500.00
3630	-16210	-16209	-16275	-16276	MG	0.00	0.00	500.00
3630	-16276	-16275	-16341	-16342	MG	0.00	0.00	500.00
3630	-16342	-16341	-16407	-16408	MG	0.00	0.00	500.00
3630	-13604	-13603	-13669	-13670	MG	0.00	0.00	500.00
3630	-13670	-13669	-13735	-13736	MG	0.00	0.00	500.00
3630	-13736	-13735	-13801	-13802	MG	0.00	0.00	500.00
3630	-15947	-15946	-16012	-16013	MG	0.00	0.00	500.00
3630	-16013	-16012	-16078	-16079	MG	0.00	0.00	500.00
3630	-16079	-16078	-16144	-16145	MG	0.00	0.00	500.00
3630	-16145	-16144	-16210	-16211	MG	0.00	0.00	500.00
3630	-16211	-16210	-16276	-16277	MG	0.00	0.00	500.00
3630	-16277	-16276	-16342	-16343	MG	0.00	0.00	500.00
3630	-16343	-16342	-16408	-16409	MG	0.00	0.00	500.00
3630	-12119	-12160	-12234	-12235	MG	0.00	0.00	500.00
3630	-12235	-12234	-12306	-12307	MG	0.00	0.00	500.00
3630	-12307	-12306	-12374	-12375	MG	0.00	0.00	500.00
3630	-15948	-15947	-16013	-16014	MG	0.00	0.00	500.00
3630	-16014	-16013	-16079	-16080	MG	0.00	0.00	500.00
3630	-16080	-16079	-16145	-16146	MG	0.00	0.00	500.00
3630	-16146	-16145	-16211	-16212	MG	0.00	0.00	500.00
3630	-16212	-16211	-16277	-16278	MG	0.00	0.00	500.00
3630	-16278	-16277	-16343	-16344	MG	0.00	0.00	500.00
3630	-16344	-16343	-16409	-16410	MG	0.00	0.00	500.00
3630	-12113	-12119	-12235	-12236	MG	0.00	0.00	500.00
3630	-12236	-12235	-12307	-12308	MG	0.00	0.00	500.00
3630	-12308	-12307	-12375	-12376	MG	0.00	0.00	500.00
3630	-15949	-15948	-16014	-16015	MG	0.00	0.00	500.00
3630	-16015	-16014	-16080	-16081	MG	0.00	0.00	500.00
3630	-16081	-16080	-16146	-16147	MG	0.00	0.00	500.00
3630	-16147	-16146	-16212	-16213	MG	0.00	0.00	500.00
3630	-16213	-16212	-16278	-16279	MG	0.00	0.00	500.00
3630	-16279	-16278	-16344	-16345	MG	0.00	0.00	500.00
3630	-16345	-16344	-16410	-16411	MG	0.00	0.00	500.00
3630	-12890	-12889	-12972	-12962	MG	0.00	0.00	500.00
3630	-12962	-12972	-13050	-13051	MG	0.00	0.00	500.00
3630	-13051	-13050	-13127	-13116	MG	0.00	0.00	500.00
3630	-15950	-15949	-16015	-16016	MG	0.00	0.00	500.00
3630	-16016	-16015	-16081	-16082	MG	0.00	0.00	500.00
3630	-16082	-16081	-16147	-16148	MG	0.00	0.00	500.00
3630	-16148	-16147	-16213	-16214	MG	0.00	0.00	500.00
3630	-16214	-16213	-16279	-16280	MG	0.00	0.00	500.00

3630	-16280	-16279	-16345	-16346	MG	0.00	0.00	500.00
3630	-16346	-16345	-16411	-16412	MG	0.00	0.00	500.00
3630	-12891	-12890	-12962	-12973	MG	0.00	0.00	500.00
3630	-12973	-12962	-13051	-13052	MG	0.00	0.00	500.00
3630	-13052	-13051	-13116	-13128	MG	0.00	0.00	500.00
3630	-15951	-15950	-16016	-16017	MG	0.00	0.00	500.00
3630	-16017	-16016	-16082	-16083	MG	0.00	0.00	500.00
3630	-16083	-16082	-16148	-16149	MG	0.00	0.00	500.00
3630	-16149	-16148	-16214	-16215	MG	0.00	0.00	500.00
3630	-16215	-16214	-16280	-16281	MG	0.00	0.00	500.00
3630	-16281	-16280	-16346	-16347	MG	0.00	0.00	500.00
3630	-16347	-16346	-16412	-16413	MG	0.00	0.00	500.00
3630	-11405	-11404	-11474	-11475	MG	0.00	0.00	500.00
3630	-11475	-11474	-11544	-11545	MG	0.00	0.00	500.00
3630	-11545	-11544	-11614	-11615	MG	0.00	0.00	500.00
3630	-14614	-14613	-14681	-14682	MG	0.00	0.00	500.00
3630	-14682	-14681	-14747	-14748	MG	0.00	0.00	500.00
3630	-14748	-14747	-14813	-14814	MG	0.00	0.00	500.00
3630	-14814	-14813	-14879	-14880	MG	0.00	0.00	500.00
3630	-14880	-14879	-14945	-14946	MG	0.00	0.00	500.00
3630	-14946	-14945	-15011	-15012	MG	0.00	0.00	500.00
3630	-15012	-15011	-15077	-15078	MG	0.00	0.00	500.00
3630	-15078	-15077	-15147	-15130	MG	0.00	0.00	500.00
3630	-15130	-15147	-15211	-15212	MG	0.00	0.00	500.00
3630	-15212	-15211	-15278	-15279	MG	0.00	0.00	500.00
3630	-14615	-14614	-14682	-14683	MG	0.00	0.00	500.00
3630	-14683	-14682	-14748	-14749	MG	0.00	0.00	500.00
3630	-14749	-14748	-14814	-14815	MG	0.00	0.00	500.00
3630	-14815	-14814	-14880	-14881	MG	0.00	0.00	500.00
3630	-14881	-14880	-14946	-14947	MG	0.00	0.00	500.00
3630	-14947	-14946	-15012	-15013	MG	0.00	0.00	500.00
3630	-15013	-15012	-15078	-15079	MG	0.00	0.00	500.00
3630	-15079	-15078	-15130	-15148	MG	0.00	0.00	500.00
3630	-15148	-15130	-15212	-15213	MG	0.00	0.00	500.00
3630	-15213	-15212	-15279	-15280	MG	0.00	0.00	500.00
3630	-14616	-14615	-14683	-14684	MG	0.00	0.00	500.00
3630	-14684	-14683	-14749	-14750	MG	0.00	0.00	500.00
3630	-14750	-14749	-14815	-14816	MG	0.00	0.00	500.00
3630	-14816	-14815	-14881	-14882	MG	0.00	0.00	500.00
3630	-14882	-14881	-14947	-14948	MG	0.00	0.00	500.00
3630	-14948	-14947	-15013	-15014	MG	0.00	0.00	500.00
3630	-15014	-15013	-15079	-15080	MG	0.00	0.00	500.00
3630	-15080	-15079	-15148	-15149	MG	0.00	0.00	500.00
3630	-15149	-15148	-15213	-15214	MG	0.00	0.00	500.00
3630	-15214	-15213	-15280	-15281	MG	0.00	0.00	500.00
3630	-14617	-14616	-14684	-14685	MG	0.00	0.00	500.00
3630	-14685	-14684	-14750	-14751	MG	0.00	0.00	500.00
3630	-14751	-14750	-14816	-14817	MG	0.00	0.00	500.00
3630	-14817	-14816	-14882	-14883	MG	0.00	0.00	500.00
3630	-14883	-14882	-14948	-14949	MG	0.00	0.00	500.00
3630	-14949	-14948	-15014	-15015	MG	0.00	0.00	500.00
3630	-15015	-15014	-15080	-15081	MG	0.00	0.00	500.00
3630	-15081	-15080	-15149	-15150	MG	0.00	0.00	500.00
3630	-15150	-15149	-15214	-15215	MG	0.00	0.00	500.00
3630	-15215	-15214	-15281	-15282	MG	0.00	0.00	500.00
3630	-14618	-14617	-14685	-14686	MG	0.00	0.00	500.00
3630	-14686	-14685	-14751	-14752	MG	0.00	0.00	500.00
3630	-14752	-14751	-14817	-14818	MG	0.00	0.00	500.00
3630	-14818	-14817	-14883	-14884	MG	0.00	0.00	500.00
3630	-14884	-14883	-14949	-14950	MG	0.00	0.00	500.00
3630	-14950	-14949	-15015	-15016	MG	0.00	0.00	500.00
3630	-15016	-15015	-15081	-15082	MG	0.00	0.00	500.00
3630	-15082	-15081	-15150	-15151	MG	0.00	0.00	500.00
3630	-15151	-15150	-15215	-15216	MG	0.00	0.00	500.00
3630	-15216	-15215	-15282	-15283	MG	0.00	0.00	500.00
3630	-14619	-14618	-14686	-14687	MG	0.00	0.00	500.00
3630	-14687	-14686	-14752	-14753	MG	0.00	0.00	500.00
3630	-14753	-14752	-14818	-14819	MG	0.00	0.00	500.00
3630	-14819	-14818	-14884	-14885	MG	0.00	0.00	500.00
3630	-14885	-14884	-14950	-14951	MG	0.00	0.00	500.00
3630	-14951	-14950	-15016	-15017	MG	0.00	0.00	500.00
3630	-15017	-15016	-15082	-15083	MG	0.00	0.00	500.00
3630	-15083	-15082	-15151	-15097	MG	0.00	0.00	500.00
3630	-15097	-15151	-15216	-15217	MG	0.00	0.00	500.00
3630	-15217	-15216	-15283	-15284	MG	0.00	0.00	500.00
3630	-14620	-14619	-14687	-14688	MG	0.00	0.00	500.00
3630	-14688	-14687	-14753	-14754	MG	0.00	0.00	500.00
3630	-14754	-14753	-14819	-14820	MG	0.00	0.00	500.00
3630	-14820	-14819	-14885	-14886	MG	0.00	0.00	500.00

3630	-14886	-14885	-14951	-14952	MG	0.00	0.00	500.00
3630	-14952	-14951	-15017	-15018	MG	0.00	0.00	500.00
3630	-15018	-15017	-15083	-15084	MG	0.00	0.00	500.00
3630	-15084	-15083	-15097	-15152	MG	0.00	0.00	500.00
3630	-15152	-15097	-15217	-15218	MG	0.00	0.00	500.00
3630	-15218	-15217	-15284	-15285	MG	0.00	0.00	500.00
3630	-14621	-14620	-14688	-14689	MG	0.00	0.00	500.00
3630	-14689	-14688	-14754	-14755	MG	0.00	0.00	500.00
3630	-14755	-14754	-14820	-14821	MG	0.00	0.00	500.00
3630	-14821	-14820	-14886	-14887	MG	0.00	0.00	500.00
3630	-14887	-14886	-14952	-14953	MG	0.00	0.00	500.00
3630	-14953	-14952	-15018	-15019	MG	0.00	0.00	500.00
3630	-15019	-15018	-15084	-15085	MG	0.00	0.00	500.00
3630	-15085	-15084	-15152	-15153	MG	0.00	0.00	500.00
3630	-15153	-15152	-15218	-15219	MG	0.00	0.00	500.00
3630	-15219	-15218	-15285	-15286	MG	0.00	0.00	500.00
3630	-14622	-14621	-14689	-14690	MG	0.00	0.00	500.00
3630	-14690	-14689	-14755	-14756	MG	0.00	0.00	500.00
3630	-14756	-14755	-14821	-14822	MG	0.00	0.00	500.00
3630	-14822	-14821	-14887	-14888	MG	0.00	0.00	500.00
3630	-14888	-14887	-14953	-14954	MG	0.00	0.00	500.00
3630	-14954	-14953	-15019	-15020	MG	0.00	0.00	500.00
3630	-15020	-15019	-15085	-15086	MG	0.00	0.00	500.00
3630	-15086	-15085	-15153	-15154	MG	0.00	0.00	500.00
3630	-15154	-15153	-15219	-15220	MG	0.00	0.00	500.00
3630	-15220	-15219	-15286	-15287	MG	0.00	0.00	500.00
3630	-14623	-14622	-14690	-14691	MG	0.00	0.00	500.00
3630	-14691	-14690	-14756	-14757	MG	0.00	0.00	500.00
3630	-14757	-14756	-14822	-14823	MG	0.00	0.00	500.00
3630	-14823	-14822	-14888	-14889	MG	0.00	0.00	500.00
3630	-14889	-14888	-14954	-14955	MG	0.00	0.00	500.00
3630	-14955	-14954	-15020	-15021	MG	0.00	0.00	500.00
3630	-15021	-15020	-15086	-15087	MG	0.00	0.00	500.00
3630	-15087	-15086	-15154	-15155	MG	0.00	0.00	500.00
3630	-15155	-15154	-15220	-15221	MG	0.00	0.00	500.00
3630	-15221	-15220	-15287	-15288	MG	0.00	0.00	500.00
3630	-14624	-14623	-14691	-14692	MG	0.00	0.00	500.00
3630	-11133	-11199	-11200	-11134	MG	0.00	0.00	500.00
3630	-14758	-14757	-14823	-14824	MG	0.00	0.00	500.00
3630	-14824	-14823	-14889	-14890	MG	0.00	0.00	500.00
3630	-14890	-14889	-14955	-14956	MG	0.00	0.00	500.00
3630	-11403	-11473	-11474	-11404	MG	0.00	0.00	500.00
3630	-11473	-11543	-11544	-11474	MG	0.00	0.00	500.00
3630	-11543	-11613	-11614	-11544	MG	0.00	0.00	500.00
3630	-11613	-11685	-11686	-11614	MG	0.00	0.00	500.00
3630	-11685	-11751	-11752	-11686	MG	0.00	0.00	500.00
3630	-14625	-14624	-14692	-14693	MG	0.00	0.00	500.00
3630	-14693	-14692	-14758	-14759	MG	0.00	0.00	500.00
3630	-10506	-10541	-10592	-10507	MG	0.00	0.00	500.00
3630	-10541	-10707	-10708	-10592	MG	0.00	0.00	500.00
3630	-10707	-10792	-10793	-10708	MG	0.00	0.00	500.00
3630	-10792	-10844	-10863	-10793	MG	0.00	0.00	500.00
3630	-10844	-10934	-10894	-10863	MG	0.00	0.00	500.00
3630	-10934	-10999	-11000	-10894	MG	0.00	0.00	500.00
3630	-10999	-11077	-11078	-11000	MG	0.00	0.00	500.00
3630	-15223	-15222	-15289	-15290	MG	0.00	0.00	500.00
3630	-10366	-10427	-10428	-10367	MG	0.00	0.00	500.00
3630	-13953	-13952	-14022	-14023	MG	0.00	0.00	500.00
3630	-10507	-10592	-10569	-10508	MG	0.00	0.00	500.00
3630	-10592	-10708	-10709	-10569	MG	0.00	0.00	500.00
3630	-10708	-10793	-10794	-10709	MG	0.00	0.00	500.00
3630	-13949	-13948	-14018	-14019	MG	0.00	0.00	500.00
3630	-13948	-13947	-14017	-14018	MG	0.00	0.00	500.00
3630	-13947	-13946	-14016	-14017	MG	0.00	0.00	500.00
3630	-13946	-13945	-14015	-14016	MG	0.00	0.00	500.00
3630	-13945	-13944	-14014	-14015	MG	0.00	0.00	500.00
3630	-10367	-10428	-10429	-10368	MG	0.00	0.00	500.00
3630	-10428	-10508	-10509	-10429	MG	0.00	0.00	500.00
3630	-10508	-10569	-10593	-10509	MG	0.00	0.00	500.00
3630	-14023	-14022	-14089	-14090	MG	0.00	0.00	500.00
3630	-14022	-14021	-14088	-14089	MG	0.00	0.00	500.00
3630	-14021	-14020	-14087	-14088	MG	0.00	0.00	500.00
3630	-14020	-14019	-14086	-14087	MG	0.00	0.00	500.00
3630	-14019	-14018	-14085	-14086	MG	0.00	0.00	500.00
3630	-14018	-14017	-14084	-14085	MG	0.00	0.00	500.00
3630	-14017	-14016	-14083	-14084	MG	0.00	0.00	500.00
3630	-14016	-14015	-14067	-14083	MG	0.00	0.00	500.00
3630	-14015	-14014	-14082	-14067	MG	0.00	0.00	500.00
3630	-14014	-14013	-14066	-14082	MG	0.00	0.00	500.00

3630	-10593	-10710	-10711	-10619	MG	0.00	0.00	500.00
3630	-10710	-10795	-10796	-10711	MG	0.00	0.00	500.00
3630	-10795	-10865	-10866	-10796	MG	0.00	0.00	500.00
3630	-14089	-14088	-14156	-14157	MG	0.00	0.00	500.00
3630	-14088	-14087	-14155	-14156	MG	0.00	0.00	500.00
3630	-14087	-14086	-14154	-14155	MG	0.00	0.00	500.00
3630	-10299	-10369	-10377	-10300	MG	0.00	0.00	500.00
3630	-10369	-10445	-10446	-10377	MG	0.00	0.00	500.00
3630	-10445	-10510	-10511	-10446	MG	0.00	0.00	500.00
3630	-10510	-10619	-10524	-10511	MG	0.00	0.00	500.00
3630	-10619	-10711	-10712	-10524	MG	0.00	0.00	500.00
3630	-14082	-14066	-14148	-14149	MG	0.00	0.00	500.00
3630	-14066	-14081	-14147	-14148	MG	0.00	0.00	500.00
3630	-10866	-10936	-10937	-10867	MG	0.00	0.00	500.00
3630	-10936	-11003	-11004	-10937	MG	0.00	0.00	500.00
3630	-11003	-11081	-11082	-11004	MG	0.00	0.00	500.00
3630	-10300	-10377	-10370	-10301	MG	0.00	0.00	500.00
3630	-14155	-14154	-14220	-14221	MG	0.00	0.00	500.00
3630	-10446	-10511	-10512	-10447	MG	0.00	0.00	500.00
3630	-10511	-10524	-10594	-10512	MG	0.00	0.00	500.00
3630	-14152	-14151	-14217	-14218	MG	0.00	0.00	500.00
3630	-14151	-14150	-14216	-14217	MG	0.00	0.00	500.00
3630	-10797	-10867	-10845	-10798	MG	0.00	0.00	500.00
3630	-10867	-10937	-10938	-10845	MG	0.00	0.00	500.00
3630	-10937	-11004	-11005	-10938	MG	0.00	0.00	500.00
3630	-11004	-11082	-11083	-11005	MG	0.00	0.00	500.00
3630	-14224	-14223	-14289	-14290	MG	0.00	0.00	500.00
3630	-14223	-14222	-14288	-14289	MG	0.00	0.00	500.00
3630	-14222	-14221	-14287	-14288	MG	0.00	0.00	500.00
3630	-14221	-14220	-14286	-14287	MG	0.00	0.00	500.00
3630	-14220	-14219	-14285	-14286	MG	0.00	0.00	500.00
3630	-10713	-10798	-10799	-10714	MG	0.00	0.00	500.00
3630	-10798	-10845	-10868	-10799	MG	0.00	0.00	500.00
3630	-10845	-10938	-10939	-10868	MG	0.00	0.00	500.00
3630	-14216	-14215	-14281	-14282	MG	0.00	0.00	500.00
3630	-14215	-14214	-14280	-14281	MG	0.00	0.00	500.00
3630	-14214	-14213	-14279	-14280	MG	0.00	0.00	500.00
3630	-14291	-14290	-14356	-14357	MG	0.00	0.00	500.00
3630	-14290	-14289	-14355	-14356	MG	0.00	0.00	500.00
3630	-14289	-14288	-14354	-14355	MG	0.00	0.00	500.00
3630	-14288	-14287	-14353	-14354	MG	0.00	0.00	500.00
3630	-14287	-14286	-14352	-14353	MG	0.00	0.00	500.00
3630	-14286	-14285	-14351	-14352	MG	0.00	0.00	500.00
3630	-14285	-14284	-14350	-14351	MG	0.00	0.00	500.00
3630	-10939	-11006	-11007	-10940	MG	0.00	0.00	500.00
3630	-11006	-11084	-11039	-11007	MG	0.00	0.00	500.00
3630	-14282	-14281	-14347	-14348	MG	0.00	0.00	500.00
3630	-14281	-14280	-14346	-14347	MG	0.00	0.00	500.00
3630	-14280	-14279	-14345	-14346	MG	0.00	0.00	500.00
3630	-14357	-14356	-14422	-14423	MG	0.00	0.00	500.00
3630	-10596	-10715	-10716	-10626	MG	0.00	0.00	500.00
3630	-14355	-14354	-14420	-14421	MG	0.00	0.00	500.00
3630	-14354	-14353	-14419	-14420	MG	0.00	0.00	500.00
3630	-14353	-14352	-14418	-14419	MG	0.00	0.00	500.00
3630	-14352	-14351	-14417	-14418	MG	0.00	0.00	500.00
3630	-14351	-14350	-14416	-14417	MG	0.00	0.00	500.00
3630	-14350	-14349	-14415	-14416	MG	0.00	0.00	500.00
3630	-10379	-10448	-10449	-10372	MG	0.00	0.00	500.00
3630	-10448	-10515	-10516	-10449	MG	0.00	0.00	500.00
3630	-10515	-10626	-10597	-10516	MG	0.00	0.00	500.00
3630	-10626	-10716	-10686	-10597	MG	0.00	0.00	500.00
3630	-14423	-14422	-14488	-14489	MG	0.00	0.00	500.00
3630	-14422	-14421	-14487	-14488	MG	0.00	0.00	500.00
3630	-14421	-14420	-14486	-14487	MG	0.00	0.00	500.00
3630	-14420	-14419	-14485	-14486	MG	0.00	0.00	500.00
3630	-11008	-11085	-11086	-11009	MG	0.00	0.00	500.00
3630	-14418	-14417	-14483	-14484	MG	0.00	0.00	500.00
3630	-14417	-14416	-14482	-14483	MG	0.00	0.00	500.00
3630	-10449	-10516	-10517	-10450	MG	0.00	0.00	500.00
3630	-10516	-10597	-10598	-10517	MG	0.00	0.00	500.00
3630	-14414	-14413	-14479	-14480	MG	0.00	0.00	500.00
3630	-14413	-14412	-14478	-14479	MG	0.00	0.00	500.00
3630	-14412	-14411	-14477	-14478	MG	0.00	0.00	500.00
3630	-14489	-14488	-14554	-14555	MG	0.00	0.00	500.00
3630	-14488	-14487	-14553	-14554	MG	0.00	0.00	500.00
3630	-14487	-14486	-14552	-14553	MG	0.00	0.00	500.00
3630	-10306	-10380	-10381	-10307	MG	0.00	0.00	500.00
3630	-10380	-10450	-10451	-10381	MG	0.00	0.00	500.00
3630	-14484	-14483	-14549	-14550	MG	0.00	0.00	500.00

3630	-14483	-14482	-14548	-14549	MG	0.00	0.00	500.00
3630	-14482	-14481	-14547	-14548	MG	0.00	0.00	500.00
3630	-14481	-14480	-14546	-14547	MG	0.00	0.00	500.00
3630	-14480	-14479	-14545	-14546	MG	0.00	0.00	500.00
3630	-14479	-14478	-14544	-14545	MG	0.00	0.00	500.00
3630	-14478	-14477	-14543	-14544	MG	0.00	0.00	500.00
3630	-14555	-14554	-14624	-14625	MG	0.00	0.00	500.00
3630	-14554	-14553	-14623	-14624	MG	0.00	0.00	500.00
3630	-14553	-14552	-14622	-14623	MG	0.00	0.00	500.00
3630	-11898	-11940	-12011	-11889	MG	0.00	0.00	500.00
3630	-14551	-14550	-14620	-14621	MG	0.00	0.00	500.00
3630	-14550	-14549	-14619	-14620	MG	0.00	0.00	500.00
3630	-14549	-14548	-14618	-14619	MG	0.00	0.00	500.00
3630	-14548	-14547	-14617	-14618	MG	0.00	0.00	500.00
3630	-14547	-14546	-14616	-14617	MG	0.00	0.00	500.00
3630	-14546	-14545	-14615	-14616	MG	0.00	0.00	500.00
3630	-14545	-14544	-14614	-14615	MG	0.00	0.00	500.00
3630	-14544	-14543	-14613	-14614	MG	0.00	0.00	500.00
3630	-15325	-15324	-15390	-15391	MG	0.00	0.00	500.00
3630	-15391	-15390	-15456	-15457	MG	0.00	0.00	500.00
3630	-15457	-15456	-15522	-15523	MG	0.00	0.00	500.00
3630	-15523	-15522	-15588	-15589	MG	0.00	0.00	500.00
3630	-12146	-12243	-12243	-12164	MG	0.00	0.00	500.00
3630	-12243	-12315	-12316	-12244	MG	0.00	0.00	500.00
3630	-12315	-12383	-12384	-12316	MG	0.00	0.00	500.00
3630	-12383	-12449	-12450	-12384	MG	0.00	0.00	500.00
3630	-15853	-15852	-15919	-15920	MG	0.00	0.00	500.00
3630	-15260	-15259	-15325	-15326	MG	0.00	0.00	500.00
3630	-11828	-11890	-11899	-11829	MG	0.00	0.00	500.00
3630	-15392	-15391	-15457	-15458	MG	0.00	0.00	500.00
3630	-11983	-12022	-12101	-12012	MG	0.00	0.00	500.00
3630	-15524	-15523	-15589	-15590	MG	0.00	0.00	500.00
3630	-15590	-15589	-15655	-15656	MG	0.00	0.00	500.00
3630	-12244	-12316	-12317	-12245	MG	0.00	0.00	500.00
3630	-12316	-12384	-12385	-12317	MG	0.00	0.00	500.00
3630	-15788	-15787	-15853	-15854	MG	0.00	0.00	500.00
3630	-15854	-15853	-15920	-15921	MG	0.00	0.00	500.00
3630	-15261	-15260	-15326	-15327	MG	0.00	0.00	500.00
3630	-15327	-15326	-15392	-15393	MG	0.00	0.00	500.00
3630	-15393	-15392	-15458	-15459	MG	0.00	0.00	500.00
3630	-12012	-12101	-12054	-12013	MG	0.00	0.00	500.00
3630	-12101	-12171	-12115	-12054	MG	0.00	0.00	500.00
3630	-12171	-12245	-12246	-12115	MG	0.00	0.00	500.00
3630	-15657	-15656	-15722	-15723	MG	0.00	0.00	500.00
3630	-15723	-15722	-15788	-15789	MG	0.00	0.00	500.00
3630	-15789	-15788	-15854	-15855	MG	0.00	0.00	500.00
3630	-15855	-15854	-15921	-15922	MG	0.00	0.00	500.00
3630	-15262	-15261	-15327	-15328	MG	0.00	0.00	500.00
3630	-15328	-15327	-15393	-15394	MG	0.00	0.00	500.00
3630	-15394	-15393	-15459	-15460	MG	0.00	0.00	500.00
3630	-15460	-15459	-15525	-15526	MG	0.00	0.00	500.00
3630	-15526	-15525	-15591	-15592	MG	0.00	0.00	500.00
3630	-15592	-15591	-15657	-15658	MG	0.00	0.00	500.00
3630	-12246	-12318	-12319	-12247	MG	0.00	0.00	500.00
3630	-15724	-15723	-15789	-15790	MG	0.00	0.00	500.00
3630	-12386	-12452	-12453	-12387	MG	0.00	0.00	500.00
3630	-15856	-15855	-15922	-15923	MG	0.00	0.00	500.00
3630	-15263	-15262	-15328	-15329	MG	0.00	0.00	500.00
3630	-15329	-15328	-15394	-15395	MG	0.00	0.00	500.00
3630	-11892	-11998	-11999	-11900	MG	0.00	0.00	500.00
3630	-15461	-15460	-15526	-15527	MG	0.00	0.00	500.00
3630	-15527	-15526	-15592	-15593	MG	0.00	0.00	500.00
3630	-15593	-15592	-15658	-15659	MG	0.00	0.00	500.00
3630	-15659	-15658	-15724	-15725	MG	0.00	0.00	500.00
3630	-15725	-15724	-15790	-15791	MG	0.00	0.00	500.00
3630	-15791	-15790	-15856	-15857	MG	0.00	0.00	500.00
3630	-12453	-12537	-12538	-12454	MG	0.00	0.00	500.00
3630	-11766	-11832	-11833	-11767	MG	0.00	0.00	500.00
3630	-11832	-11900	-11901	-11833	MG	0.00	0.00	500.00
3630	-11900	-11999	-12000	-11901	MG	0.00	0.00	500.00
3630	-15462	-15461	-15527	-15528	MG	0.00	0.00	500.00
3630	-12102	-12120	-12165	-12070	MG	0.00	0.00	500.00
3630	-12120	-12248	-12249	-12165	MG	0.00	0.00	500.00
3630	-15660	-15659	-15725	-15726	MG	0.00	0.00	500.00
3630	-12320	-12388	-12389	-12321	MG	0.00	0.00	500.00
3630	-15792	-15791	-15857	-15858	MG	0.00	0.00	500.00
3630	-15857	-15924	-15925	-15858	MG	0.00	0.00	500.00
3630	-11767	-11833	-11834	-11768	MG	0.00	0.00	500.00
3630	-11833	-11901	-11902	-11834	MG	0.00	0.00	500.00

3630	-15397	-15396	-15462	-15463	MG	0.00	0.00	500.00
3630	-15463	-15462	-15528	-15529	MG	0.00	0.00	500.00
3630	-15529	-15528	-15594	-15595	MG	0.00	0.00	500.00
3630	-15595	-15594	-15660	-15661	MG	0.00	0.00	500.00
3630	-15661	-15660	-15726	-15727	MG	0.00	0.00	500.00
3630	-15727	-15726	-15792	-15793	MG	0.00	0.00	500.00
3630	-12389	-12455	-12456	-12390	MG	0.00	0.00	500.00
3630	-12455	-12539	-12550	-12456	MG	0.00	0.00	500.00
3630	-15266	-15265	-15331	-15332	MG	0.00	0.00	500.00
3630	-15332	-15331	-15397	-15398	MG	0.00	0.00	500.00
3630	-15398	-15397	-15463	-15464	MG	0.00	0.00	500.00
3630	-15464	-15463	-15529	-15530	MG	0.00	0.00	500.00
3630	-15530	-15529	-15595	-15596	MG	0.00	0.00	500.00
3630	-15596	-15595	-15661	-15662	MG	0.00	0.00	500.00
3630	-15662	-15661	-15727	-15728	MG	0.00	0.00	500.00
3630	-15728	-15727	-15793	-15794	MG	0.00	0.00	500.00
3630	-15794	-15793	-15859	-15860	MG	0.00	0.00	500.00
3630	-15860	-15859	-15926	-15927	MG	0.00	0.00	500.00
3630	-11769	-11835	-11836	-11770	MG	0.00	0.00	500.00
3630	-11835	-11903	-11904	-11836	MG	0.00	0.00	500.00
3630	-11903	-12001	-11941	-11904	MG	0.00	0.00	500.00
3630	-15465	-15464	-15530	-15531	MG	0.00	0.00	500.00
3630	-12055	-12188	-12122	-12024	MG	0.00	0.00	500.00
3630	-15597	-15596	-15662	-15663	MG	0.00	0.00	500.00
3630	-15663	-15662	-15728	-15729	MG	0.00	0.00	500.00
3630	-15729	-15728	-15794	-15795	MG	0.00	0.00	500.00
3630	-15795	-15794	-15860	-15861	MG	0.00	0.00	500.00
3630	-15861	-15860	-15927	-15928	MG	0.00	0.00	500.00
3630	-15268	-15267	-15333	-15334	MG	0.00	0.00	500.00
3630	-15334	-15333	-15399	-15400	MG	0.00	0.00	500.00
3630	-15400	-15399	-15465	-15466	MG	0.00	0.00	500.00
3630	-11941	-12024	-12071	-12002	MG	0.00	0.00	500.00
3630	-12024	-12122	-12172	-12071	MG	0.00	0.00	500.00
3630	-15598	-15597	-15663	-15664	MG	0.00	0.00	500.00
3630	-12252	-12324	-12325	-12253	MG	0.00	0.00	500.00
3630	-12324	-12392	-12393	-12325	MG	0.00	0.00	500.00
3630	-12392	-12458	-12459	-12393	MG	0.00	0.00	500.00
3630	-12458	-12541	-12542	-12459	MG	0.00	0.00	500.00
3630	-11771	-11837	-11838	-11772	MG	0.00	0.00	500.00
3630	-11837	-11905	-11906	-11838	MG	0.00	0.00	500.00
3630	-15401	-15400	-15466	-15467	MG	0.00	0.00	500.00
3630	-15467	-15466	-15532	-15533	MG	0.00	0.00	500.00
3630	-15533	-15532	-15598	-15599	MG	0.00	0.00	500.00
3630	-15599	-15598	-15664	-15665	MG	0.00	0.00	500.00
3630	-15665	-15664	-15730	-15731	MG	0.00	0.00	500.00
3630	-12325	-12393	-12394	-12326	MG	0.00	0.00	500.00
3630	-12393	-12459	-12460	-12394	MG	0.00	0.00	500.00
3630	-12459	-12542	-12543	-12460	MG	0.00	0.00	500.00
3630	-15270	-15269	-15335	-15336	MG	0.00	0.00	500.00
3630	-15336	-15335	-15401	-15402	MG	0.00	0.00	500.00
3630	-15402	-15401	-15467	-15468	MG	0.00	0.00	500.00
3630	-15468	-15467	-15533	-15534	MG	0.00	0.00	500.00
3630	-15534	-15533	-15599	-15600	MG	0.00	0.00	500.00
3630	-13610	-13676	-13677	-13611	MG	0.00	0.00	500.00
3630	-13676	-13742	-13743	-13677	MG	0.00	0.00	500.00
3630	-15732	-15731	-15797	-15798	MG	0.00	0.00	500.00
3630	-15798	-15797	-15863	-15864	MG	0.00	0.00	500.00
3630	-15864	-15863	-15930	-15931	MG	0.00	0.00	500.00
3630	-15920	-15919	-15985	-15986	MG	0.00	0.00	500.00
3630	-15986	-15985	-16051	-16052	MG	0.00	0.00	500.00
3630	-16052	-16051	-16117	-16118	MG	0.00	0.00	500.00
3630	-16118	-16117	-16183	-16184	MG	0.00	0.00	500.00
3630	-16184	-16183	-16249	-16250	MG	0.00	0.00	500.00
3630	-16250	-16249	-16315	-16316	MG	0.00	0.00	500.00
3630	-16316	-16315	-16381	-16382	MG	0.00	0.00	500.00
3630	-13743	-13809	-13810	-13744	MG	0.00	0.00	500.00
3630	-13809	-13875	-13876	-13810	MG	0.00	0.00	500.00
3630	-13875	-13943	-13944	-13876	MG	0.00	0.00	500.00
3630	-15921	-15920	-15986	-15987	MG	0.00	0.00	500.00
3630	-15987	-15986	-16052	-16053	MG	0.00	0.00	500.00
3630	-16053	-16052	-16118	-16119	MG	0.00	0.00	500.00
3630	-13476	-13546	-13547	-13477	MG	0.00	0.00	500.00
3630	-13546	-13612	-13613	-13547	MG	0.00	0.00	500.00
3630	-13612	-13678	-13679	-13613	MG	0.00	0.00	500.00
3630	-13678	-13744	-13745	-13679	MG	0.00	0.00	500.00
3630	-13744	-13810	-13811	-13745	MG	0.00	0.00	500.00
3630	-15734	-15735	-15801	-15800	MG	0.00	0.00	500.00
3630	-15735	-15736	-15802	-15801	MG	0.00	0.00	500.00
3630	-15922	-15921	-15987	-15988	MG	0.00	0.00	500.00



3630	-15988	-15987	-16053	-16054	MG	0.00	0.00	500.00
3630	-13405	-13477	-13478	-13406	MG	0.00	0.00	500.00
3630	-16120	-16119	-16185	-16186	MG	0.00	0.00	500.00
3630	-16186	-16185	-16251	-16252	MG	0.00	0.00	500.00
3630	-16252	-16251	-16317	-16318	MG	0.00	0.00	500.00
3630	-13679	-13745	-13746	-13680	MG	0.00	0.00	500.00
3630	-15338	-15339	-15405	-15404	MG	0.00	0.00	500.00
3630	-13811	-13877	-13878	-13812	MG	0.00	0.00	500.00
3630	-15142	-15143	-15207	-15206	MG	0.00	0.00	500.00
3630	-15923	-15922	-15988	-15989	MG	0.00	0.00	500.00
3630	-15989	-15988	-16054	-16055	MG	0.00	0.00	500.00
3630	-13406	-13478	-13479	-13407	MG	0.00	0.00	500.00
3630	-13478	-13548	-13549	-13479	MG	0.00	0.00	500.00
3630	-16187	-16186	-16252	-16253	MG	0.00	0.00	500.00
3630	-16253	-16252	-16318	-16319	MG	0.00	0.00	500.00
3630	-16319	-16318	-16384	-16385	MG	0.00	0.00	500.00
3630	-14940	-14941	-15007	-15006	MG	0.00	0.00	500.00
3630	-14742	-14743	-14809	-14808	MG	0.00	0.00	500.00
3630	-14807	-14808	-14874	-14873	MG	0.00	0.00	500.00
3630	-14808	-14809	-14875	-14874	MG	0.00	0.00	500.00
3630	-15990	-15989	-16055	-16056	MG	0.00	0.00	500.00
3630	-16056	-16055	-16121	-16122	MG	0.00	0.00	500.00
3630	-16122	-16121	-16187	-16188	MG	0.00	0.00	500.00
3630	-16188	-16187	-16253	-16254	MG	0.00	0.00	500.00
3630	-16254	-16253	-16319	-16320	MG	0.00	0.00	500.00
3630	-16320	-16319	-16385	-16386	MG	0.00	0.00	500.00
3630	-14340	-14341	-14407	-14406	MG	0.00	0.00	500.00
3630	-13813	-13879	-13880	-13814	MG	0.00	0.00	500.00
3630	-14406	-14407	-14473	-14472	MG	0.00	0.00	500.00
3630	-13595	-13661	-13662	-13596	MG	0.00	0.00	500.00
3630	-13341	-13408	-13409	-13342	MG	0.00	0.00	500.00
3630	-16057	-16056	-16122	-16123	MG	0.00	0.00	500.00
3630	-13480	-13550	-13551	-13481	MG	0.00	0.00	500.00
3630	-16189	-16188	-16254	-16255	MG	0.00	0.00	500.00
3630	-13616	-13682	-13683	-13617	MG	0.00	0.00	500.00
3630	-13682	-13748	-13749	-13683	MG	0.00	0.00	500.00
3630	-14006	-14007	-14078	-14077	MG	0.00	0.00	500.00
3630	-13814	-13880	-13881	-13815	MG	0.00	0.00	500.00
3630	-13803	-13804	-13870	-13869	MG	0.00	0.00	500.00
3630	-15926	-15925	-15991	-15992	MG	0.00	0.00	500.00
3630	-15992	-15991	-16057	-16058	MG	0.00	0.00	500.00
3630	-16058	-16057	-16123	-16124	MG	0.00	0.00	500.00
3630	-16124	-16123	-16189	-16190	MG	0.00	0.00	500.00
3630	-16190	-16189	-16255	-16256	MG	0.00	0.00	500.00
3630	-13617	-13683	-13684	-13618	MG	0.00	0.00	500.00
3630	-13683	-13749	-13750	-13684	MG	0.00	0.00	500.00
3630	-13749	-13815	-13816	-13750	MG	0.00	0.00	500.00
3630	-13397	-13398	-13470	-13469	MG	0.00	0.00	500.00
3630	-13468	-13469	-13539	-13538	MG	0.00	0.00	500.00
3630	-15927	-15926	-15992	-15993	MG	0.00	0.00	500.00
3630	-15993	-15992	-16058	-16059	MG	0.00	0.00	500.00
3630	-16059	-16058	-16124	-16125	MG	0.00	0.00	500.00
3630	-16125	-16124	-16190	-16191	MG	0.00	0.00	500.00
3630	-16191	-16190	-16256	-16257	MG	0.00	0.00	500.00
3630	-16257	-16256	-16322	-16323	MG	0.00	0.00	500.00
3630	-16323	-16322	-16388	-16389	MG	0.00	0.00	500.00
3630	-12974	-12975	-13054	-13053	MG	0.00	0.00	500.00
3630	-13052	-13053	-13085	-13128	MG	0.00	0.00	500.00
3630	-13053	-13054	-13117	-13085	MG	0.00	0.00	500.00
3630	-13275	-13344	-13345	-13276	MG	0.00	0.00	500.00
3630	-13344	-13411	-13412	-13345	MG	0.00	0.00	500.00
3630	-13411	-13483	-13484	-13412	MG	0.00	0.00	500.00
3630	-16126	-16125	-16191	-16192	MG	0.00	0.00	500.00
3630	-16192	-16191	-16257	-16258	MG	0.00	0.00	500.00
3630	-16258	-16257	-16323	-16324	MG	0.00	0.00	500.00
3630	-13685	-13751	-13752	-13686	MG	0.00	0.00	500.00
3630	-13751	-13817	-13818	-13752	MG	0.00	0.00	500.00
3630	-13817	-13883	-13884	-13818	MG	0.00	0.00	500.00
3630	-13883	-13951	-13952	-13884	MG	0.00	0.00	500.00
3630	-13276	-13345	-13346	-13277	MG	0.00	0.00	500.00
3630	-15995	-15994	-16060	-16061	MG	0.00	0.00	500.00
3630	-16061	-16060	-16126	-16127	MG	0.00	0.00	500.00
3630	-16127	-16126	-16192	-16193	MG	0.00	0.00	500.00
3630	-13554	-13620	-13621	-13555	MG	0.00	0.00	500.00
3630	-13620	-13686	-13687	-13621	MG	0.00	0.00	500.00
3630	-16325	-16324	-16390	-16391	MG	0.00	0.00	500.00
3630	-13752	-13818	-13819	-13753	MG	0.00	0.00	500.00
3630	-11867	-11885	-11972	-12010	MG	0.00	0.00	500.00
3630	-13884	-13952	-13953	-13885	MG	0.00	0.00	500.00

3630	-15930	-15929	-15995	-15996	MG	0.00	0.00	500.00
3630	-13346	-13413	-13414	-13347	MG	0.00	0.00	500.00
3630	-13413	-13485	-13486	-13414	MG	0.00	0.00	500.00
3630	-16128	-16127	-16193	-16194	MG	0.00	0.00	500.00
3630	-13555	-13621	-13622	-13556	MG	0.00	0.00	500.00
3630	-16260	-16259	-16325	-16326	MG	0.00	0.00	500.00
3630	-13687	-13753	-13754	-13688	MG	0.00	0.00	500.00
3630	-13753	-13819	-13820	-13754	MG	0.00	0.00	500.00
3630	-13819	-13885	-13886	-13820	MG	0.00	0.00	500.00
3630	-11547	-11548	-11618	-11617	MG	0.00	0.00	500.00
3630	-15931	-15930	-15996	-15997	MG	0.00	0.00	500.00
3630	-15997	-15996	-16062	-16063	MG	0.00	0.00	500.00
3630	-16063	-16062	-16128	-16129	MG	0.00	0.00	500.00
3630	-16129	-16128	-16194	-16195	MG	0.00	0.00	500.00
3630	-12827	-12897	-12898	-12828	MG	0.00	0.00	500.00
3630	-12897	-12964	-12978	-12898	MG	0.00	0.00	500.00
3630	-12964	-13058	-13059	-12978	MG	0.00	0.00	500.00
3630	-11136	-11137	-11203	-11202	MG	0.00	0.00	500.00
3630	-11137	-11138	-11204	-11203	MG	0.00	0.00	500.00
3630	-10929	-10930	-10995	-10994	MG	0.00	0.00	500.00
3630	-14594	-14593	-14661	-14662	MG	0.00	0.00	500.00
3630	-14662	-14661	-14727	-14728	MG	0.00	0.00	500.00
3630	-14728	-14727	-14793	-14794	MG	0.00	0.00	500.00
3630	-14794	-14793	-14859	-14860	MG	0.00	0.00	500.00
3630	-14860	-14859	-14925	-14926	MG	0.00	0.00	500.00
3630	-14926	-14925	-14991	-14992	MG	0.00	0.00	500.00
3630	-14992	-14991	-15057	-15058	MG	0.00	0.00	500.00
3630	-13059	-13130	-13121	-13060	MG	0.00	0.00	500.00
3630	-13130	-13201	-13202	-13121	MG	0.00	0.00	500.00
3630	-15192	-15191	-15258	-15259	MG	0.00	0.00	500.00
3630	-14595	-14594	-14662	-14663	MG	0.00	0.00	500.00
3630	-14663	-14662	-14728	-14729	MG	0.00	0.00	500.00
3630	-14729	-14728	-14794	-14795	MG	0.00	0.00	500.00
3630	-14795	-14794	-14860	-14861	MG	0.00	0.00	500.00
3630	-14861	-14860	-14926	-14927	MG	0.00	0.00	500.00
3630	-14927	-14926	-14992	-14993	MG	0.00	0.00	500.00
3630	-14993	-14992	-15058	-15059	MG	0.00	0.00	500.00
3630	-15059	-15058	-15124	-15135	MG	0.00	0.00	500.00
3630	-15135	-15124	-15192	-15193	MG	0.00	0.00	500.00
3630	-15193	-15192	-15259	-15260	MG	0.00	0.00	500.00
3630	-14596	-14595	-14663	-14664	MG	0.00	0.00	500.00
3630	-14664	-14663	-14729	-14730	MG	0.00	0.00	500.00
3630	-12689	-12760	-12761	-12690	MG	0.00	0.00	500.00
3630	-14796	-14795	-14861	-14862	MG	0.00	0.00	500.00
3630	-14862	-14861	-14927	-14928	MG	0.00	0.00	500.00
3630	-14928	-14927	-14993	-14994	MG	0.00	0.00	500.00
3630	-14994	-14993	-15059	-15060	MG	0.00	0.00	500.00
3630	-15060	-15059	-15135	-15125	MG	0.00	0.00	500.00
3630	-15125	-15135	-15193	-15194	MG	0.00	0.00	500.00
3630	-15194	-15193	-15260	-15261	MG	0.00	0.00	500.00
3630	-14597	-14596	-14664	-14665	MG	0.00	0.00	500.00
3630	-14665	-14664	-14730	-14731	MG	0.00	0.00	500.00
3630	-14731	-14730	-14796	-14797	MG	0.00	0.00	500.00
3630	-14797	-14796	-14862	-14863	MG	0.00	0.00	500.00
3630	-14863	-14862	-14928	-14929	MG	0.00	0.00	500.00
3630	-14929	-14928	-14994	-14995	MG	0.00	0.00	500.00
3630	-14995	-14994	-15060	-15061	MG	0.00	0.00	500.00
3630	-15061	-15060	-15125	-15136	MG	0.00	0.00	500.00
3630	-15136	-15125	-15194	-15195	MG	0.00	0.00	500.00
3630	-15195	-15194	-15261	-15262	MG	0.00	0.00	500.00
3630	-14598	-14597	-14665	-14666	MG	0.00	0.00	500.00
3630	-14666	-14665	-14731	-14732	MG	0.00	0.00	500.00
3630	-14732	-14731	-14797	-14798	MG	0.00	0.00	500.00
3630	-14798	-14797	-14863	-14864	MG	0.00	0.00	500.00
3630	-14864	-14863	-14929	-14930	MG	0.00	0.00	500.00
3630	-14930	-14929	-14995	-14996	MG	0.00	0.00	500.00
3630	-14996	-14995	-15061	-15062	MG	0.00	0.00	500.00
3630	-15062	-15061	-15136	-15096	MG	0.00	0.00	500.00
3630	-15096	-15136	-15195	-15196	MG	0.00	0.00	500.00
3630	-15196	-15195	-15262	-15263	MG	0.00	0.00	500.00
3630	-14599	-14598	-14666	-14667	MG	0.00	0.00	500.00
3630	-14667	-14666	-14732	-14733	MG	0.00	0.00	500.00
3630	-14733	-14732	-14798	-14799	MG	0.00	0.00	500.00
3630	-14799	-14798	-14864	-14865	MG	0.00	0.00	500.00
3630	-14865	-14864	-14930	-14931	MG	0.00	0.00	500.00
3630	-14931	-14930	-14996	-14997	MG	0.00	0.00	500.00
3630	-14997	-14996	-15062	-15063	MG	0.00	0.00	500.00
3630	-15063	-15062	-15096	-15126	MG	0.00	0.00	500.00
3630	-15126	-15096	-15196	-15197	MG	0.00	0.00	500.00

3630	-15197	-15196	-15263	-15264	MG	0.00	0.00	500.00
3630	-14600	-14599	-14667	-14668	MG	0.00	0.00	500.00
3630	-14668	-14667	-14733	-14734	MG	0.00	0.00	500.00
3630	-14734	-14733	-14799	-14800	MG	0.00	0.00	500.00
3630	-14800	-14799	-14865	-14866	MG	0.00	0.00	500.00
3630	-14866	-14865	-14931	-14932	MG	0.00	0.00	500.00
3630	-14932	-14931	-14997	-14998	MG	0.00	0.00	500.00
3630	-14998	-14997	-15063	-15064	MG	0.00	0.00	500.00
3630	-15064	-15063	-15126	-15137	MG	0.00	0.00	500.00
3630	-15137	-15126	-15197	-15198	MG	0.00	0.00	500.00
3630	-15198	-15197	-15264	-15265	MG	0.00	0.00	500.00
3630	-14601	-14600	-14668	-14669	MG	0.00	0.00	500.00
3630	-14669	-14668	-14734	-14735	MG	0.00	0.00	500.00
3630	-14735	-14734	-14800	-14801	MG	0.00	0.00	500.00
3630	-14801	-14800	-14866	-14867	MG	0.00	0.00	500.00
3630	-14867	-14866	-14932	-14933	MG	0.00	0.00	500.00
3630	-14933	-14932	-14998	-14999	MG	0.00	0.00	500.00
3630	-14999	-14998	-15064	-15065	MG	0.00	0.00	500.00
3630	-15065	-15064	-15137	-15138	MG	0.00	0.00	500.00
3630	-15138	-15137	-15198	-15199	MG	0.00	0.00	500.00
3630	-15199	-15198	-15265	-15266	MG	0.00	0.00	500.00
3630	-14602	-14601	-14669	-14670	MG	0.00	0.00	500.00
3630	-14670	-14669	-14735	-14736	MG	0.00	0.00	500.00
3630	-14736	-14735	-14801	-14802	MG	0.00	0.00	500.00
3630	-14802	-14801	-14867	-14868	MG	0.00	0.00	500.00
3630	-14868	-14867	-14933	-14934	MG	0.00	0.00	500.00
3630	-14934	-14933	-14999	-15000	MG	0.00	0.00	500.00
3630	-15000	-14999	-15065	-15066	MG	0.00	0.00	500.00
3630	-15066	-15065	-15138	-15139	MG	0.00	0.00	500.00
3630	-15139	-15138	-15199	-15200	MG	0.00	0.00	500.00
3630	-15200	-15199	-15266	-15267	MG	0.00	0.00	500.00
3630	-14603	-14602	-14670	-14671	MG	0.00	0.00	500.00
3630	-14671	-14670	-14736	-14737	MG	0.00	0.00	500.00
3630	-14737	-14736	-14802	-14803	MG	0.00	0.00	500.00
3630	-14803	-14802	-14868	-14869	MG	0.00	0.00	500.00
3630	-14869	-14868	-14934	-14935	MG	0.00	0.00	500.00
3630	-14935	-14934	-15000	-15001	MG	0.00	0.00	500.00
3630	-15001	-15000	-15066	-15067	MG	0.00	0.00	500.00
3630	-15067	-15066	-15139	-15127	MG	0.00	0.00	500.00
3630	-15127	-15139	-15200	-15201	MG	0.00	0.00	500.00
3630	-15201	-15200	-15267	-15268	MG	0.00	0.00	500.00
3630	-14604	-14603	-14671	-14672	MG	0.00	0.00	500.00
3630	-14672	-14671	-14737	-14738	MG	0.00	0.00	500.00
3630	-14738	-14737	-14803	-14804	MG	0.00	0.00	500.00
3630	-14804	-14803	-14869	-14870	MG	0.00	0.00	500.00
3630	-14870	-14869	-14935	-14936	MG	0.00	0.00	500.00
3630	-14936	-14935	-15001	-15002	MG	0.00	0.00	500.00
3630	-15002	-15001	-15067	-15068	MG	0.00	0.00	500.00
3630	-15068	-15067	-15127	-15128	MG	0.00	0.00	500.00
3630	-15128	-15127	-15201	-15202	MG	0.00	0.00	500.00
3630	-15202	-15201	-15268	-15269	MG	0.00	0.00	500.00
3630	-14605	-14604	-14672	-14673	MG	0.00	0.00	500.00
3630	-14673	-14672	-14738	-14739	MG	0.00	0.00	500.00
3630	-14739	-14738	-14804	-14805	MG	0.00	0.00	500.00
3630	-14805	-14804	-14870	-14871	MG	0.00	0.00	500.00
3630	-14871	-14870	-14936	-14937	MG	0.00	0.00	500.00
3630	-14937	-14936	-15002	-15003	MG	0.00	0.00	500.00
3630	-15003	-15002	-15068	-15069	MG	0.00	0.00	500.00
3630	-15069	-15068	-15128	-15129	MG	0.00	0.00	500.00
3630	-15129	-15128	-15202	-15203	MG	0.00	0.00	500.00
3630	-15203	-15202	-15269	-15270	MG	0.00	0.00	500.00
3630	-13934	-13933	-14003	-14004	MG	0.00	0.00	500.00
3630	-13933	-13932	-14002	-14003	MG	0.00	0.00	500.00
3630	-13932	-13931	-14001	-14002	MG	0.00	0.00	500.00
3630	-13931	-13930	-14000	-14001	MG	0.00	0.00	500.00
3630	-13930	-13929	-13999	-14000	MG	0.00	0.00	500.00
3630	-13929	-13928	-13998	-13999	MG	0.00	0.00	500.00
3630	-13928	-13927	-13997	-13998	MG	0.00	0.00	500.00
3630	-13927	-13926	-13996	-13997	MG	0.00	0.00	500.00
3630	-13926	-13925	-13995	-13996	MG	0.00	0.00	500.00
3630	-13925	-13924	-13994	-13995	MG	0.00	0.00	500.00
3630	-13924	-13923	-13993	-13994	MG	0.00	0.00	500.00
3630	-13923	-13922	-13992	-13993	MG	0.00	0.00	500.00
3630	-14004	-14003	-14075	-14076	MG	0.00	0.00	500.00
3630	-14003	-14002	-14074	-14075	MG	0.00	0.00	500.00
3630	-14002	-14001	-14073	-14074	MG	0.00	0.00	500.00
3630	-14001	-14000	-14072	-14073	MG	0.00	0.00	500.00
3630	-14000	-13999	-14071	-14072	MG	0.00	0.00	500.00
3630	-13999	-13998	-14070	-14071	MG	0.00	0.00	500.00

3630	-13998	-13997	-14062	-14070	MG	0.00	0.00	500.00
3630	-13997	-13996	-14061	-14062	MG	0.00	0.00	500.00
3630	-13996	-13995	-14060	-14061	MG	0.00	0.00	500.00
3630	-13995	-13994	-14059	-14060	MG	0.00	0.00	500.00
3630	-13994	-13993	-14058	-14059	MG	0.00	0.00	500.00
3630	-13993	-13992	-14057	-14058	MG	0.00	0.00	500.00
3630	-14076	-14075	-14138	-14139	MG	0.00	0.00	500.00
3630	-14075	-14074	-14137	-14138	MG	0.00	0.00	500.00
3630	-14074	-14073	-14136	-14137	MG	0.00	0.00	500.00
3630	-14073	-14072	-14135	-14136	MG	0.00	0.00	500.00
3630	-14072	-14071	-14134	-14135	MG	0.00	0.00	500.00
3630	-14071	-14070	-14133	-14134	MG	0.00	0.00	500.00
3630	-14070	-14062	-14132	-14133	MG	0.00	0.00	500.00
3630	-14062	-14061	-14131	-14132	MG	0.00	0.00	500.00
3630	-14061	-14060	-14130	-14131	MG	0.00	0.00	500.00
3630	-14060	-14059	-14129	-14130	MG	0.00	0.00	500.00
3630	-14059	-14058	-14128	-14129	MG	0.00	0.00	500.00
3630	-14058	-14057	-14127	-14128	MG	0.00	0.00	500.00
3630	-14139	-14138	-14204	-14205	MG	0.00	0.00	500.00
3630	-14138	-14137	-14203	-14204	MG	0.00	0.00	500.00
3630	-14137	-14136	-14202	-14203	MG	0.00	0.00	500.00
3630	-14136	-14135	-14201	-14202	MG	0.00	0.00	500.00
3630	-14135	-14134	-14200	-14201	MG	0.00	0.00	500.00
3630	-14134	-14133	-14199	-14200	MG	0.00	0.00	500.00
3630	-14133	-14132	-14198	-14199	MG	0.00	0.00	500.00
3630	-14132	-14131	-14197	-14198	MG	0.00	0.00	500.00
3630	-14131	-14130	-14196	-14197	MG	0.00	0.00	500.00
3630	-14130	-14129	-14195	-14196	MG	0.00	0.00	500.00
3630	-14129	-14128	-14194	-14195	MG	0.00	0.00	500.00
3630	-14128	-14127	-14193	-14194	MG	0.00	0.00	500.00
3630	-14205	-14204	-14270	-14271	MG	0.00	0.00	500.00
3630	-14204	-14203	-14269	-14270	MG	0.00	0.00	500.00
3630	-14203	-14202	-14268	-14269	MG	0.00	0.00	500.00
3630	-14202	-14201	-14267	-14268	MG	0.00	0.00	500.00
3630	-14201	-14200	-14266	-14267	MG	0.00	0.00	500.00
3630	-14200	-14199	-14265	-14266	MG	0.00	0.00	500.00
3630	-14199	-14198	-14264	-14265	MG	0.00	0.00	500.00
3630	-14198	-14197	-14263	-14264	MG	0.00	0.00	500.00
3630	-14197	-14196	-14262	-14263	MG	0.00	0.00	500.00
3630	-14196	-14195	-14261	-14262	MG	0.00	0.00	500.00
3630	-14195	-14194	-14260	-14261	MG	0.00	0.00	500.00
3630	-14194	-14193	-14259	-14260	MG	0.00	0.00	500.00
3630	-14271	-14270	-14336	-14337	MG	0.00	0.00	500.00
3630	-14270	-14269	-14335	-14336	MG	0.00	0.00	500.00
3630	-14269	-14268	-14334	-14335	MG	0.00	0.00	500.00
3630	-14268	-14267	-14333	-14334	MG	0.00	0.00	500.00
3630	-14267	-14266	-14332	-14333	MG	0.00	0.00	500.00
3630	-14266	-14265	-14331	-14332	MG	0.00	0.00	500.00
3630	-14265	-14264	-14330	-14331	MG	0.00	0.00	500.00
3630	-14264	-14263	-14329	-14330	MG	0.00	0.00	500.00
3630	-14263	-14262	-14328	-14329	MG	0.00	0.00	500.00
3630	-14262	-14261	-14327	-14328	MG	0.00	0.00	500.00
3630	-14261	-14260	-14326	-14327	MG	0.00	0.00	500.00
3630	-14260	-14259	-14325	-14326	MG	0.00	0.00	500.00
3630	-14337	-14336	-14402	-14403	MG	0.00	0.00	500.00
3630	-14336	-14335	-14401	-14402	MG	0.00	0.00	500.00
3630	-14335	-14334	-14400	-14401	MG	0.00	0.00	500.00
3630	-14334	-14333	-14399	-14400	MG	0.00	0.00	500.00
3630	-14333	-14332	-14398	-14399	MG	0.00	0.00	500.00
3630	-14332	-14331	-14397	-14398	MG	0.00	0.00	500.00
3630	-14331	-14330	-14396	-14397	MG	0.00	0.00	500.00
3630	-14330	-14329	-14395	-14396	MG	0.00	0.00	500.00
3630	-14329	-14328	-14394	-14395	MG	0.00	0.00	500.00
3630	-14328	-14327	-14393	-14394	MG	0.00	0.00	500.00
3630	-14327	-14326	-14392	-14393	MG	0.00	0.00	500.00
3630	-14326	-14325	-14391	-14392	MG	0.00	0.00	500.00
3630	-14403	-14402	-14468	-14469	MG	0.00	0.00	500.00
3630	-14402	-14401	-14467	-14468	MG	0.00	0.00	500.00
3630	-14401	-14400	-14466	-14467	MG	0.00	0.00	500.00
3630	-14400	-14399	-14465	-14466	MG	0.00	0.00	500.00
3630	-14399	-14398	-14464	-14465	MG	0.00	0.00	500.00
3630	-14398	-14397	-14463	-14464	MG	0.00	0.00	500.00
3630	-14397	-14396	-14462	-14463	MG	0.00	0.00	500.00
3630	-14396	-14395	-14461	-14462	MG	0.00	0.00	500.00
3630	-14395	-14394	-14460	-14461	MG	0.00	0.00	500.00
3630	-14394	-14393	-14459	-14460	MG	0.00	0.00	500.00
3630	-14393	-14392	-14458	-14459	MG	0.00	0.00	500.00
3630	-14392	-14391	-14457	-14458	MG	0.00	0.00	500.00
3630	-14469	-14468	-14534	-14535	MG	0.00	0.00	500.00

3630	-14468	-14467	-14533	-14534	MG	0.00	0.00	500.00
3630	-14467	-14466	-14532	-14533	MG	0.00	0.00	500.00
3630	-14466	-14465	-14531	-14532	MG	0.00	0.00	500.00
3630	-14465	-14464	-14530	-14531	MG	0.00	0.00	500.00
3630	-14464	-14463	-14529	-14530	MG	0.00	0.00	500.00
3630	-14463	-14462	-14528	-14529	MG	0.00	0.00	500.00
3630	-14462	-14461	-14527	-14528	MG	0.00	0.00	500.00
3630	-14461	-14460	-14526	-14527	MG	0.00	0.00	500.00
3630	-14460	-14459	-14525	-14526	MG	0.00	0.00	500.00
3630	-14459	-14458	-14524	-14525	MG	0.00	0.00	500.00
3630	-14458	-14457	-14523	-14524	MG	0.00	0.00	500.00
3630	-14535	-14534	-14604	-14605	MG	0.00	0.00	500.00
3630	-14534	-14533	-14603	-14604	MG	0.00	0.00	500.00
3630	-14533	-14532	-14602	-14603	MG	0.00	0.00	500.00
3630	-14532	-14531	-14601	-14602	MG	0.00	0.00	500.00
3630	-14531	-14530	-14600	-14601	MG	0.00	0.00	500.00
3630	-14530	-14529	-14599	-14600	MG	0.00	0.00	500.00
3630	-14529	-14528	-14598	-14599	MG	0.00	0.00	500.00
3630	-14528	-14527	-14597	-14598	MG	0.00	0.00	500.00
3630	-14527	-14526	-14596	-14597	MG	0.00	0.00	500.00
3630	-14526	-14525	-14595	-14596	MG	0.00	0.00	500.00
3630	-14525	-14524	-14594	-14595	MG	0.00	0.00	500.00
3630	-14524	-14523	-14593	-14594	MG	0.00	0.00	500.00
3630	-11806	-11861	-11862	-11807	MG	0.00	0.00	500.00
3630	-11861	-11994	-11995	-11862	MG	0.00	0.00	500.00
3630	-11994	-12095	-12019	-11995	MG	0.00	0.00	500.00
3630	-12095	-12143	-12157	-12019	MG	0.00	0.00	500.00
3630	-12143	-12222	-12223	-12157	MG	0.00	0.00	500.00
3630	-12222	-12294	-12295	-12223	MG	0.00	0.00	500.00
3630	-12294	-12362	-12363	-12295	MG	0.00	0.00	500.00
3630	-12362	-12428	-12429	-12363	MG	0.00	0.00	500.00
3630	-12428	-12508	-12509	-12429	MG	0.00	0.00	500.00
3630	-11741	-11807	-11808	-11742	MG	0.00	0.00	500.00
3630	-11807	-11862	-11876	-11808	MG	0.00	0.00	500.00
3630	-11862	-11995	-11947	-11876	MG	0.00	0.00	500.00
3630	-11995	-12019	-12060	-11947	MG	0.00	0.00	500.00
3630	-12019	-12157	-12158	-12060	MG	0.00	0.00	500.00
3630	-12157	-12223	-12224	-12158	MG	0.00	0.00	500.00
3630	-12223	-12295	-12296	-12224	MG	0.00	0.00	500.00
3630	-12295	-12363	-12364	-12296	MG	0.00	0.00	500.00
3630	-12363	-12429	-12430	-12364	MG	0.00	0.00	500.00
3630	-12429	-12509	-12510	-12430	MG	0.00	0.00	500.00
3630	-11742	-11808	-11809	-11743	MG	0.00	0.00	500.00
3630	-11808	-11876	-11863	-11809	MG	0.00	0.00	500.00
3630	-11876	-11947	-11937	-11863	MG	0.00	0.00	500.00
3630	-11947	-12060	-12034	-11937	MG	0.00	0.00	500.00
3630	-12060	-12158	-12108	-12034	MG	0.00	0.00	500.00
3630	-12158	-12224	-12225	-12108	MG	0.00	0.00	500.00
3630	-12224	-12296	-12297	-12225	MG	0.00	0.00	500.00
3630	-12296	-12364	-12365	-12297	MG	0.00	0.00	500.00
3630	-12364	-12430	-12431	-12365	MG	0.00	0.00	500.00
3630	-12430	-12510	-12511	-12431	MG	0.00	0.00	500.00
3630	-11743	-11809	-11810	-11744	MG	0.00	0.00	500.00
3630	-11809	-11863	-11877	-11810	MG	0.00	0.00	500.00
3630	-11863	-11937	-11967	-11877	MG	0.00	0.00	500.00
3630	-11937	-12034	-12061	-11967	MG	0.00	0.00	500.00
3630	-12034	-12108	-12109	-12061	MG	0.00	0.00	500.00
3630	-12108	-12225	-12226	-12109	MG	0.00	0.00	500.00
3630	-12225	-12297	-12298	-12226	MG	0.00	0.00	500.00
3630	-12297	-12365	-12366	-12298	MG	0.00	0.00	500.00
3630	-12365	-12431	-12432	-12366	MG	0.00	0.00	500.00
3630	-12431	-12511	-12512	-12432	MG	0.00	0.00	500.00
3630	-11744	-11810	-11811	-11745	MG	0.00	0.00	500.00
3630	-11810	-11877	-11864	-11811	MG	0.00	0.00	500.00
3630	-11877	-11967	-11938	-11864	MG	0.00	0.00	500.00
3630	-11967	-12061	-12020	-11938	MG	0.00	0.00	500.00
3630	-12061	-12109	-12110	-12020	MG	0.00	0.00	500.00
3630	-12109	-12226	-12227	-12110	MG	0.00	0.00	500.00
3630	-12226	-12298	-12299	-12227	MG	0.00	0.00	500.00
3630	-12298	-12366	-12367	-12299	MG	0.00	0.00	500.00
3630	-12366	-12432	-12433	-12367	MG	0.00	0.00	500.00
3630	-12432	-12512	-12513	-12433	MG	0.00	0.00	500.00
3630	-11745	-11811	-11812	-11746	MG	0.00	0.00	500.00
3630	-11811	-11864	-11865	-11812	MG	0.00	0.00	500.00
3630	-11864	-11938	-11996	-11865	MG	0.00	0.00	500.00
3630	-11938	-12020	-12062	-11996	MG	0.00	0.00	500.00
3630	-12020	-12110	-12159	-12062	MG	0.00	0.00	500.00
3630	-12110	-12227	-12228	-12159	MG	0.00	0.00	500.00
3630	-12227	-12299	-12300	-12228	MG	0.00	0.00	500.00

3630	-12299	-12367	-12368	-12300	MG	0.00	0.00	500.00
3630	-12367	-12433	-12434	-12368	MG	0.00	0.00	500.00
3630	-12433	-12513	-12525	-12434	MG	0.00	0.00	500.00
3630	-11746	-11812	-11813	-11747	MG	0.00	0.00	500.00
3630	-11812	-11865	-11878	-11813	MG	0.00	0.00	500.00
3630	-11865	-11996	-11948	-11878	MG	0.00	0.00	500.00
3630	-11996	-12062	-12063	-11948	MG	0.00	0.00	500.00
3630	-12062	-12159	-12170	-12063	MG	0.00	0.00	500.00
3630	-12159	-12228	-12229	-12170	MG	0.00	0.00	500.00
3630	-12228	-12300	-12301	-12229	MG	0.00	0.00	500.00
3630	-12300	-12368	-12369	-12301	MG	0.00	0.00	500.00
3630	-12368	-12434	-12435	-12369	MG	0.00	0.00	500.00
3630	-12434	-12525	-12514	-12435	MG	0.00	0.00	500.00
3630	-11747	-11813	-11814	-11748	MG	0.00	0.00	500.00
3630	-11813	-11878	-11866	-11814	MG	0.00	0.00	500.00
3630	-11878	-11948	-11968	-11866	MG	0.00	0.00	500.00
3630	-11948	-12063	-12035	-11968	MG	0.00	0.00	500.00
3630	-12063	-12170	-12144	-12035	MG	0.00	0.00	500.00
3630	-12170	-12229	-12230	-12144	MG	0.00	0.00	500.00
3630	-12229	-12301	-12302	-12230	MG	0.00	0.00	500.00
3630	-12301	-12369	-12370	-12302	MG	0.00	0.00	500.00
3630	-12369	-12435	-12436	-12370	MG	0.00	0.00	500.00
3630	-12435	-12514	-12515	-12436	MG	0.00	0.00	500.00
3630	-11748	-11814	-11815	-11749	MG	0.00	0.00	500.00
3630	-11814	-11866	-11879	-11815	MG	0.00	0.00	500.00
3630	-11866	-11968	-11969	-11879	MG	0.00	0.00	500.00
3630	-11968	-12035	-12096	-11969	MG	0.00	0.00	500.00
3630	-12035	-12144	-12185	-12096	MG	0.00	0.00	500.00
3630	-12144	-12230	-12231	-12185	MG	0.00	0.00	500.00
3630	-12230	-12302	-12303	-12231	MG	0.00	0.00	500.00
3630	-12302	-12370	-12371	-12303	MG	0.00	0.00	500.00
3630	-12370	-12436	-12437	-12371	MG	0.00	0.00	500.00
3630	-12436	-12515	-12516	-12437	MG	0.00	0.00	500.00
3630	-11749	-11815	-11816	-11750	MG	0.00	0.00	500.00
3630	-11815	-11879	-11880	-11816	MG	0.00	0.00	500.00
3630	-11879	-11969	-11997	-11880	MG	0.00	0.00	500.00
3630	-11969	-12096	-12021	-11997	MG	0.00	0.00	500.00
3630	-12096	-12185	-12111	-12021	MG	0.00	0.00	500.00
3630	-12185	-12231	-12232	-12111	MG	0.00	0.00	500.00
3630	-12231	-12303	-12304	-12232	MG	0.00	0.00	500.00
3630	-12303	-12371	-12372	-12304	MG	0.00	0.00	500.00
3630	-12371	-12437	-12438	-12372	MG	0.00	0.00	500.00
3630	-12437	-12516	-12526	-12438	MG	0.00	0.00	500.00
3630	-11750	-11816	-11817	-11751	MG	0.00	0.00	500.00
3630	-11816	-11880	-11881	-11817	MG	0.00	0.00	500.00
3630	-11880	-11997	-11970	-11881	MG	0.00	0.00	500.00
3630	-11997	-12021	-12064	-11970	MG	0.00	0.00	500.00
3630	-12021	-12111	-12112	-12064	MG	0.00	0.00	500.00
3630	-12111	-12232	-12233	-12112	MG	0.00	0.00	500.00
3630	-12232	-12304	-12305	-12233	MG	0.00	0.00	500.00
3630	-12304	-12372	-12373	-12305	MG	0.00	0.00	500.00
3630	-12372	-12438	-12439	-12373	MG	0.00	0.00	500.00
3630	-12438	-12526	-12527	-12439	MG	0.00	0.00	500.00
3630	-11751	-11817	-11818	-11752	MG	0.00	0.00	500.00
3630	-11817	-11881	-11882	-11818	MG	0.00	0.00	500.00
3630	-11881	-11970	-12009	-11882	MG	0.00	0.00	500.00
3630	-11970	-12064	-12097	-12009	MG	0.00	0.00	500.00
3630	-12064	-12112	-12160	-12097	MG	0.00	0.00	500.00
3630	-12112	-12233	-12234	-12160	MG	0.00	0.00	500.00
3630	-12233	-12305	-12306	-12234	MG	0.00	0.00	500.00
3630	-12305	-12373	-12374	-12306	MG	0.00	0.00	500.00
3630	-12373	-12439	-12440	-12374	MG	0.00	0.00	500.00
3630	-12439	-12527	-12547	-12440	MG	0.00	0.00	500.00
3630	-10277	-10338	-10339	-10278	MG	0.00	0.00	500.00
3630	-10338	-10416	-10417	-10339	MG	0.00	0.00	500.00
3630	-10416	-10486	-10487	-10417	MG	0.00	0.00	500.00
3630	-10486	-10581	-10551	-10487	MG	0.00	0.00	500.00
3630	-10581	-10681	-10693	-10551	MG	0.00	0.00	500.00
3630	-10681	-10772	-10773	-10693	MG	0.00	0.00	500.00
3630	-10772	-10837	-10838	-10773	MG	0.00	0.00	500.00
3630	-10837	-10912	-10913	-10838	MG	0.00	0.00	500.00
3630	-10912	-10979	-10980	-10913	MG	0.00	0.00	500.00
3630	-10979	-11060	-11061	-10980	MG	0.00	0.00	500.00
3630	-10278	-10339	-10340	-10279	MG	0.00	0.00	500.00
3630	-10339	-10417	-10418	-10340	MG	0.00	0.00	500.00
3630	-10417	-10487	-10488	-10418	MG	0.00	0.00	500.00
3630	-10487	-10551	-10540	-10488	MG	0.00	0.00	500.00
3630	-10551	-10693	-10682	-10540	MG	0.00	0.00	500.00
3630	-10693	-10773	-10774	-10682	MG	0.00	0.00	500.00

3630	-10773	-10838	-10839	-10774	MG	0.00	0.00	500.00
3630	-10838	-10913	-10918	-10839	MG	0.00	0.00	500.00
3630	-10913	-10980	-10981	-10918	MG	0.00	0.00	500.00
3630	-10980	-11061	-11062	-10981	MG	0.00	0.00	500.00
3630	-10279	-10340	-10341	-10280	MG	0.00	0.00	500.00
3630	-10340	-10418	-10419	-10341	MG	0.00	0.00	500.00
3630	-10418	-10488	-10489	-10419	MG	0.00	0.00	500.00
3630	-10488	-10540	-10582	-10489	MG	0.00	0.00	500.00
3630	-10540	-10682	-10683	-10582	MG	0.00	0.00	500.00
3630	-10682	-10774	-10775	-10683	MG	0.00	0.00	500.00
3630	-10774	-10839	-10853	-10775	MG	0.00	0.00	500.00
3630	-11899	-12012	-12013	-11891	MG	0.00	0.00	500.00
3630	-10918	-10981	-10982	-10919	MG	0.00	0.00	500.00
3630	-10981	-11062	-11038	-10982	MG	0.00	0.00	500.00
3630	-10280	-10341	-10342	-10281	MG	0.00	0.00	500.00
3630	-10341	-10419	-10420	-10342	MG	0.00	0.00	500.00
3630	-10419	-10489	-10490	-10420	MG	0.00	0.00	500.00
3630	-10489	-10582	-10583	-10490	MG	0.00	0.00	500.00
3630	-10582	-10683	-10694	-10583	MG	0.00	0.00	500.00
3630	-10683	-10775	-10776	-10694	MG	0.00	0.00	500.00
3630	-10775	-10853	-10807	-10776	MG	0.00	0.00	500.00
3630	-10853	-10919	-10920	-10807	MG	0.00	0.00	500.00
3630	-10919	-10982	-10983	-10920	MG	0.00	0.00	500.00
3630	-10982	-11038	-11063	-10983	MG	0.00	0.00	500.00
3630	-10281	-10342	-10343	-10282	MG	0.00	0.00	500.00
3630	-10342	-10420	-10435	-10343	MG	0.00	0.00	500.00
3630	-10420	-10490	-10491	-10435	MG	0.00	0.00	500.00
3630	-10490	-10583	-10584	-10491	MG	0.00	0.00	500.00
3630	-10583	-10694	-10695	-10584	MG	0.00	0.00	500.00
3630	-10694	-10776	-10777	-10695	MG	0.00	0.00	500.00
3630	-10776	-10807	-10840	-10777	MG	0.00	0.00	500.00
3630	-10807	-10920	-10921	-10840	MG	0.00	0.00	500.00
3630	-10920	-10983	-10984	-10921	MG	0.00	0.00	500.00
3630	-10983	-11063	-11050	-10984	MG	0.00	0.00	500.00
3630	-10282	-10343	-10344	-10283	MG	0.00	0.00	500.00
3630	-10343	-10435	-10421	-10344	MG	0.00	0.00	500.00
3630	-10435	-10491	-10492	-10421	MG	0.00	0.00	500.00
3630	-10491	-10584	-10585	-10492	MG	0.00	0.00	500.00
3630	-10584	-10695	-10696	-10585	MG	0.00	0.00	500.00
3630	-10695	-10777	-10778	-10696	MG	0.00	0.00	500.00
3630	-10777	-10840	-10854	-10778	MG	0.00	0.00	500.00
3630	-10840	-10921	-10892	-10854	MG	0.00	0.00	500.00
3630	-10921	-10984	-10985	-10892	MG	0.00	0.00	500.00
3630	-10984	-11050	-11051	-10985	MG	0.00	0.00	500.00
3630	-10283	-10344	-10357	-10284	MG	0.00	0.00	500.00
3630	-10344	-10421	-10436	-10357	MG	0.00	0.00	500.00
3630	-10421	-10492	-10493	-10436	MG	0.00	0.00	500.00
3630	-10492	-10585	-10586	-10493	MG	0.00	0.00	500.00
3630	-10585	-10696	-10684	-10586	MG	0.00	0.00	500.00
3630	-10696	-10778	-10779	-10684	MG	0.00	0.00	500.00
3630	-10778	-10854	-10855	-10779	MG	0.00	0.00	500.00
3630	-10854	-10892	-10922	-10855	MG	0.00	0.00	500.00
3630	-10892	-10985	-10986	-10922	MG	0.00	0.00	500.00
3630	-10985	-11051	-11064	-10986	MG	0.00	0.00	500.00
3630	-10284	-10357	-10345	-10285	MG	0.00	0.00	500.00
3630	-10357	-10436	-10437	-10345	MG	0.00	0.00	500.00
3630	-10436	-10493	-10494	-10437	MG	0.00	0.00	500.00
3630	-10493	-10586	-10610	-10494	MG	0.00	0.00	500.00
3630	-10586	-10684	-10697	-10610	MG	0.00	0.00	500.00
3630	-10684	-10779	-10780	-10697	MG	0.00	0.00	500.00
3630	-10779	-10855	-10856	-10780	MG	0.00	0.00	500.00
3630	-10855	-10922	-10923	-10856	MG	0.00	0.00	500.00
3630	-10922	-10986	-10987	-10923	MG	0.00	0.00	500.00
3630	-10986	-11064	-11065	-10987	MG	0.00	0.00	500.00
3630	-10285	-10345	-10346	-10286	MG	0.00	0.00	500.00
3630	-10345	-10437	-10438	-10346	MG	0.00	0.00	500.00
3630	-10437	-10494	-10495	-10438	MG	0.00	0.00	500.00
3630	-12390	-12456	-12457	-12391	MG	0.00	0.00	500.00
3630	-10610	-10697	-10698	-10552	MG	0.00	0.00	500.00
3630	-10697	-10780	-10781	-10698	MG	0.00	0.00	500.00
3630	-10780	-10856	-10841	-10781	MG	0.00	0.00	500.00
3630	-10856	-10923	-10924	-10841	MG	0.00	0.00	500.00
3630	-10923	-10987	-10988	-10924	MG	0.00	0.00	500.00
3630	-10987	-11065	-11066	-10988	MG	0.00	0.00	500.00
3630	-10286	-10346	-10347	-10287	MG	0.00	0.00	500.00
3630	-10346	-10438	-10439	-10347	MG	0.00	0.00	500.00
3630	-10438	-10495	-10496	-10439	MG	0.00	0.00	500.00
3630	-10495	-10552	-10631	-10496	MG	0.00	0.00	500.00
3630	-10552	-10698	-10699	-10631	MG	0.00	0.00	500.00

3630	-10698	-10781	-10782	-10699	MG	0.00	0.00	500.00
3630	-10781	-10841	-10857	-10782	MG	0.00	0.00	500.00
3630	-10841	-10924	-10925	-10857	MG	0.00	0.00	500.00
3630	-10924	-10988	-10989	-10925	MG	0.00	0.00	500.00
3630	-10988	-11066	-11067	-10989	MG	0.00	0.00	500.00
3630	-10287	-10347	-10358	-10288	MG	0.00	0.00	500.00
3630	-10347	-10439	-10422	-10358	MG	0.00	0.00	500.00
3630	-10439	-10496	-10497	-10422	MG	0.00	0.00	500.00
3630	-10496	-10631	-10587	-10497	MG	0.00	0.00	500.00
3630	-10631	-10699	-10685	-10587	MG	0.00	0.00	500.00
3630	-10699	-10782	-10783	-10685	MG	0.00	0.00	500.00
3630	-10782	-10857	-10808	-10783	MG	0.00	0.00	500.00
3630	-10857	-10925	-10926	-10808	MG	0.00	0.00	500.00
3630	-10925	-10989	-10990	-10926	MG	0.00	0.00	500.00
3630	-10989	-11067	-11068	-10990	MG	0.00	0.00	500.00
3630	-10288	-10358	-10359	3501	MG	0.00	0.00	500.00
3630	-10358	-10422	-10440	-10359	MG	0.00	0.00	500.00
3630	-10422	-10497	-10498	-10440	MG	0.00	0.00	500.00
3630	-10497	-10587	-10588	-10498	MG	0.00	0.00	500.00
3630	-10587	-10685	-10700	-10588	MG	0.00	0.00	500.00
3630	-10685	-10783	-10784	-10700	MG	0.00	0.00	500.00
3630	-10783	-10808	-10842	-10784	MG	0.00	0.00	500.00
3630	-10808	-10926	-10927	-10842	MG	0.00	0.00	500.00
3630	-10926	-10990	-10991	-10927	MG	0.00	0.00	500.00
3630	-10990	-11068	-11069	-10991	MG	0.00	0.00	500.00
3630	-13246	-13315	-13316	-13247	MG	0.00	0.00	500.00
3630	-13315	-13382	-13383	-13316	MG	0.00	0.00	500.00
3630	-13382	-13454	-13455	-13383	MG	0.00	0.00	500.00
3630	-13454	-13524	-13525	-13455	MG	0.00	0.00	500.00
3630	-13524	-13590	-13591	-13525	MG	0.00	0.00	500.00
3630	-13590	-13656	-13657	-13591	MG	0.00	0.00	500.00
3630	-13656	-13722	-13723	-13657	MG	0.00	0.00	500.00
3630	-13722	-13788	-13789	-13723	MG	0.00	0.00	500.00
3630	-13788	-13854	-13855	-13789	MG	0.00	0.00	500.00
3630	-13854	-13922	-13923	-13855	MG	0.00	0.00	500.00
3630	-13247	-13316	-13317	-13248	MG	0.00	0.00	500.00
3630	-13316	-13383	-13384	-13317	MG	0.00	0.00	500.00
3630	-13383	-13455	-13456	-13384	MG	0.00	0.00	500.00
3630	-13455	-13525	-13526	-13456	MG	0.00	0.00	500.00
3630	-13525	-13591	-13592	-13526	MG	0.00	0.00	500.00
3630	-13591	-13657	-13658	-13592	MG	0.00	0.00	500.00
3630	-13657	-13723	-13724	-13658	MG	0.00	0.00	500.00
3630	-13723	-13789	-13790	-13724	MG	0.00	0.00	500.00
3630	-13789	-13855	-13856	-13790	MG	0.00	0.00	500.00
3630	-13855	-13923	-13924	-13856	MG	0.00	0.00	500.00
3630	-13248	-13317	-13318	-13249	MG	0.00	0.00	500.00
3630	-13317	-13384	-13385	-13318	MG	0.00	0.00	500.00
3630	-13384	-13456	-13457	-13385	MG	0.00	0.00	500.00
3630	-13456	-13526	-13527	-13457	MG	0.00	0.00	500.00
3630	-13526	-13592	-13593	-13527	MG	0.00	0.00	500.00
3630	-13592	-13658	-13659	-13593	MG	0.00	0.00	500.00
3630	-13658	-13724	-13725	-13659	MG	0.00	0.00	500.00
3630	-13724	-13790	-13791	-13725	MG	0.00	0.00	500.00
3630	-13790	-13856	-13857	-13791	MG	0.00	0.00	500.00
3630	-13856	-13924	-13925	-13857	MG	0.00	0.00	500.00
3630	-13249	-13318	-13319	-13250	MG	0.00	0.00	500.00
3630	-13318	-13385	-13386	-13319	MG	0.00	0.00	500.00
3630	-13385	-13457	-13458	-13386	MG	0.00	0.00	500.00
3630	-13457	-13527	-13528	-13458	MG	0.00	0.00	500.00
3630	-13527	-13593	-13594	-13528	MG	0.00	0.00	500.00
3630	-13593	-13659	-13660	-13594	MG	0.00	0.00	500.00
3630	-13659	-13725	-13726	-13660	MG	0.00	0.00	500.00
3630	-13725	-13791	-13792	-13726	MG	0.00	0.00	500.00
3630	-13791	-13857	-13858	-13792	MG	0.00	0.00	500.00
3630	-13857	-13925	-13926	-13858	MG	0.00	0.00	500.00
3630	-13250	-13319	-13320	-13251	MG	0.00	0.00	500.00
3630	-13319	-13386	-13387	-13320	MG	0.00	0.00	500.00
3630	-13386	-13458	-13459	-13387	MG	0.00	0.00	500.00
3630	-13458	-13528	-13529	-13459	MG	0.00	0.00	500.00
3630	-13528	-13594	-13595	-13529	MG	0.00	0.00	500.00
3630	-13594	-13660	-13661	-13595	MG	0.00	0.00	500.00
3630	-13660	-13726	-13727	-13661	MG	0.00	0.00	500.00
3630	-13726	-13792	-13793	-13727	MG	0.00	0.00	500.00
3630	-13792	-13858	-13859	-13793	MG	0.00	0.00	500.00
3630	-13858	-13926	-13927	-13859	MG	0.00	0.00	500.00
3630	-13251	-13320	-13321	-13252	MG	0.00	0.00	500.00
3630	-13320	-13387	-13388	-13321	MG	0.00	0.00	500.00
3630	-13387	-13459	-13460	-13388	MG	0.00	0.00	500.00
3630	-13459	-13529	-13530	-13460	MG	0.00	0.00	500.00



3630	-13529	-13595	-13596	-13530	MG	0.00	0.00	500.00
3630	-11481	-11551	-11552	-11482	MG	0.00	0.00	500.00
3630	-13661	-13727	-13728	-13662	MG	0.00	0.00	500.00
3630	-13727	-13793	-13794	-13728	MG	0.00	0.00	500.00
3630	-13793	-13859	-13860	-13794	MG	0.00	0.00	500.00
3630	-13859	-13927	-13928	-13860	MG	0.00	0.00	500.00
3630	-13252	-13321	-13322	-13253	MG	0.00	0.00	500.00
3630	-13321	-13388	-13389	-13322	MG	0.00	0.00	500.00
3630	-13388	-13460	-13461	-13389	MG	0.00	0.00	500.00
3630	-13460	-13530	-13531	-13461	MG	0.00	0.00	500.00
3630	-13530	-13596	-13597	-13531	MG	0.00	0.00	500.00
3630	-13596	-13662	-13663	-13597	MG	0.00	0.00	500.00
3630	-13662	-13728	-13729	-13663	MG	0.00	0.00	500.00
3630	-13728	-13794	-13795	-13729	MG	0.00	0.00	500.00
3630	-13794	-13860	-13861	-13795	MG	0.00	0.00	500.00
3630	-13860	-13928	-13929	-13861	MG	0.00	0.00	500.00
3630	-13253	-13322	-13323	-13254	MG	0.00	0.00	500.00
3630	-13322	-13389	-13390	-13323	MG	0.00	0.00	500.00
3630	-13389	-13461	-13462	-13390	MG	0.00	0.00	500.00
3630	-13461	-13531	-13532	-13462	MG	0.00	0.00	500.00
3630	-13531	-13597	-13598	-13532	MG	0.00	0.00	500.00
3630	-13597	-13663	-13664	-13598	MG	0.00	0.00	500.00
3630	-13663	-13729	-13730	-13664	MG	0.00	0.00	500.00
3630	-13729	-13795	-13796	-13730	MG	0.00	0.00	500.00
3630	-13795	-13861	-13862	-13796	MG	0.00	0.00	500.00
3630	-13861	-13929	-13930	-13862	MG	0.00	0.00	500.00
3630	-13254	-13323	-13324	-13255	MG	0.00	0.00	500.00
3630	-13323	-13390	-13391	-13324	MG	0.00	0.00	500.00
3630	-13390	-13462	-13463	-13391	MG	0.00	0.00	500.00
3630	-13462	-13532	-13533	-13463	MG	0.00	0.00	500.00
3630	-13532	-13598	-13599	-13533	MG	0.00	0.00	500.00
3630	-13598	-13664	-13665	-13599	MG	0.00	0.00	500.00
3630	-13664	-13730	-13731	-13665	MG	0.00	0.00	500.00
3630	-13730	-13796	-13797	-13731	MG	0.00	0.00	500.00
3630	-13796	-13862	-13863	-13797	MG	0.00	0.00	500.00
3630	-13862	-13930	-13931	-13863	MG	0.00	0.00	500.00
3630	-13255	-13324	-13325	-13256	MG	0.00	0.00	500.00
3630	-13324	-13391	-13392	-13325	MG	0.00	0.00	500.00
3630	-13391	-13463	-13464	-13392	MG	0.00	0.00	500.00
3630	-13463	-13533	-13534	-13464	MG	0.00	0.00	500.00
3630	-13533	-13599	-13600	-13534	MG	0.00	0.00	500.00
3630	-13599	-13665	-13666	-13600	MG	0.00	0.00	500.00
3630	-13665	-13731	-13732	-13666	MG	0.00	0.00	500.00
3630	-13731	-13797	-13798	-13732	MG	0.00	0.00	500.00
3630	-13797	-13863	-13864	-13798	MG	0.00	0.00	500.00
3630	-13863	-13931	-13932	-13864	MG	0.00	0.00	500.00
3630	-13256	-13325	-13326	-13257	MG	0.00	0.00	500.00
3630	-13325	-13392	-13393	-13326	MG	0.00	0.00	500.00
3630	-13392	-13464	-13465	-13393	MG	0.00	0.00	500.00
3630	-13464	-13534	-13535	-13465	MG	0.00	0.00	500.00
3630	-13534	-13600	-13601	-13535	MG	0.00	0.00	500.00
3630	-13600	-13666	-13667	-13601	MG	0.00	0.00	500.00
3630	-13666	-13732	-13733	-13667	MG	0.00	0.00	500.00
3630	-13732	-13798	-13799	-13733	MG	0.00	0.00	500.00
3630	-13798	-13864	-13865	-13799	MG	0.00	0.00	500.00
3630	-13864	-13932	-13933	-13865	MG	0.00	0.00	500.00
3630	-13257	-13326	-13327	-13258	MG	0.00	0.00	500.00
3630	-13326	-13393	-13394	-13327	MG	0.00	0.00	500.00
3630	-13393	-13465	-13466	-13394	MG	0.00	0.00	500.00
3630	-13465	-13535	-13536	-13466	MG	0.00	0.00	500.00
3630	-13535	-13601	-13602	-13536	MG	0.00	0.00	500.00
3630	-13601	-13667	-13668	-13602	MG	0.00	0.00	500.00
3630	-13667	-13733	-13734	-13668	MG	0.00	0.00	500.00
3630	-13733	-13799	-13800	-13734	MG	0.00	0.00	500.00
3630	-13799	-13865	-13866	-13800	MG	0.00	0.00	500.00
3630	-13865	-13933	-13934	-13866	MG	0.00	0.00	500.00
3630	-12508	-12592	-12593	-12509	MG	0.00	0.00	500.00
3630	-12592	-12666	-12667	-12593	MG	0.00	0.00	500.00
3630	-12666	-12737	-12738	-12667	MG	0.00	0.00	500.00
3630	-12737	-12807	-12808	-12738	MG	0.00	0.00	500.00
3630	-12807	-12877	-12878	-12808	MG	0.00	0.00	500.00
3630	-12877	-12954	-12955	-12878	MG	0.00	0.00	500.00
3630	-12954	-13038	-13039	-12955	MG	0.00	0.00	500.00
3630	-13038	-13105	-13106	-13039	MG	0.00	0.00	500.00
3630	-13105	-13183	-13184	-13106	MG	0.00	0.00	500.00
3630	-13183	-13246	-13247	-13184	MG	0.00	0.00	500.00
3630	-12509	-12593	-12594	-12510	MG	0.00	0.00	500.00
3630	-12593	-12667	-12668	-12594	MG	0.00	0.00	500.00
3630	-12667	-12738	-12739	-12668	MG	0.00	0.00	500.00

3630	-12738	-12808	-12809	-12739	MG	0.00	0.00	500.00
3630	-12808	-12878	-12879	-12809	MG	0.00	0.00	500.00
3630	-12878	-12955	-12956	-12879	MG	0.00	0.00	500.00
3630	-12955	-13039	-13040	-12956	MG	0.00	0.00	500.00
3630	-13039	-13106	-13107	-13040	MG	0.00	0.00	500.00
3630	-13106	-13184	-13185	-13107	MG	0.00	0.00	500.00
3630	-13184	-13247	-13248	-13185	MG	0.00	0.00	500.00
3630	-12510	-12594	-12595	-12511	MG	0.00	0.00	500.00
3630	-12594	-12668	-12669	-12595	MG	0.00	0.00	500.00
3630	-12668	-12739	-12740	-12669	MG	0.00	0.00	500.00
3630	-12739	-12809	-12810	-12740	MG	0.00	0.00	500.00
3630	-12809	-12879	-12880	-12810	MG	0.00	0.00	500.00
3630	-12879	-12956	-12957	-12880	MG	0.00	0.00	500.00
3630	-12956	-13040	-13041	-12957	MG	0.00	0.00	500.00
3630	-13040	-13107	-13108	-13041	MG	0.00	0.00	500.00
3630	-13107	-13185	-13167	-13108	MG	0.00	0.00	500.00
3630	-13185	-13248	-13249	-13167	MG	0.00	0.00	500.00
3630	-12511	-12595	-12596	-12512	MG	0.00	0.00	500.00
3630	-12595	-12669	-12670	-12596	MG	0.00	0.00	500.00
3630	-12669	-12740	-12741	-12670	MG	0.00	0.00	500.00
3630	-12740	-12810	-12811	-12741	MG	0.00	0.00	500.00
3630	-12810	-12880	-12881	-12811	MG	0.00	0.00	500.00
3630	-12880	-12957	-12958	-12881	MG	0.00	0.00	500.00
3630	-12957	-13041	-13042	-12968	MG	0.00	0.00	500.00
3630	-13041	-13108	-13084	-13042	MG	0.00	0.00	500.00
3630	-13108	-13167	-13186	-13084	MG	0.00	0.00	500.00
3630	-13167	-13249	-13250	-13186	MG	0.00	0.00	500.00
3630	-12512	-12596	-12597	-12513	MG	0.00	0.00	500.00
3630	-12596	-12670	-12671	-12597	MG	0.00	0.00	500.00
3630	-12670	-12741	-12742	-12671	MG	0.00	0.00	500.00
3630	-12741	-12811	-12812	-12742	MG	0.00	0.00	500.00
3630	-12811	-12881	-12882	-12812	MG	0.00	0.00	500.00
3630	-12881	-12968	-12969	-12882	MG	0.00	0.00	500.00
3630	-12968	-13042	-13043	-12969	MG	0.00	0.00	500.00
3630	-13042	-13084	-13109	-13043	MG	0.00	0.00	500.00
3630	-13084	-13186	-13168	-13109	MG	0.00	0.00	500.00
3630	-13186	-13250	-13251	-13168	MG	0.00	0.00	500.00
3630	-12513	-12597	-12598	-12525	MG	0.00	0.00	500.00
3630	-12597	-12671	-12672	-12598	MG	0.00	0.00	500.00
3630	-12671	-12742	-12743	-12672	MG	0.00	0.00	500.00
3630	-12742	-12812	-12813	-12743	MG	0.00	0.00	500.00
3630	-12812	-12882	-12883	-12813	MG	0.00	0.00	500.00
3630	-12882	-12969	-12958	-12883	MG	0.00	0.00	500.00
3630	-12969	-13043	-13044	-12958	MG	0.00	0.00	500.00
3630	-13043	-13109	-13110	-13044	MG	0.00	0.00	500.00
3630	-13109	-13168	-13187	-13110	MG	0.00	0.00	500.00
3630	-13168	-13251	-13252	-13187	MG	0.00	0.00	500.00
3630	-12903	-12983	-12984	-12904	MG	0.00	0.00	500.00
3630	-12598	-12672	-12673	-12599	MG	0.00	0.00	500.00
3630	-12672	-12743	-12744	-12673	MG	0.00	0.00	500.00
3630	-12743	-12813	-12814	-12744	MG	0.00	0.00	500.00
3630	-12813	-12883	-12884	-12814	MG	0.00	0.00	500.00
3630	-12883	-12958	-12959	-12884	MG	0.00	0.00	500.00
3630	-12958	-13044	-13045	-12959	MG	0.00	0.00	500.00
3630	-13044	-13110	-13111	-13045	MG	0.00	0.00	500.00
3630	-13110	-13187	-13188	-13111	MG	0.00	0.00	500.00
3630	-13187	-13252	-13253	-13188	MG	0.00	0.00	500.00
3630	-12514	-12599	-12600	-12515	MG	0.00	0.00	500.00
3630	-12599	-12673	-12674	-12600	MG	0.00	0.00	500.00
3630	-12673	-12744	-12745	-12674	MG	0.00	0.00	500.00
3630	-12744	-12814	-12815	-12745	MG	0.00	0.00	500.00
3630	-12814	-12884	-12885	-12815	MG	0.00	0.00	500.00
3630	-12884	-12959	-12960	-12885	MG	0.00	0.00	500.00
3630	-12959	-13045	-13046	-12960	MG	0.00	0.00	500.00
3630	-13045	-13111	-13112	-13046	MG	0.00	0.00	500.00
3630	-13111	-13188	-13189	-13112	MG	0.00	0.00	500.00
3630	-13188	-13253	-13254	-13189	MG	0.00	0.00	500.00
3630	-12515	-12600	-12601	-12516	MG	0.00	0.00	500.00
3630	-12600	-12674	-12675	-12601	MG	0.00	0.00	500.00
3630	-12674	-12745	-12746	-12675	MG	0.00	0.00	500.00
3630	-12745	-12815	-12816	-12746	MG	0.00	0.00	500.00
3630	-12815	-12885	-12886	-12816	MG	0.00	0.00	500.00
3630	-12885	-12960	-12970	-12886	MG	0.00	0.00	500.00
3630	-12960	-13046	-13047	-12970	MG	0.00	0.00	500.00
3630	-13046	-13112	-13113	-13047	MG	0.00	0.00	500.00
3630	-13112	-13189	-13190	-13113	MG	0.00	0.00	500.00
3630	-13189	-13254	-13255	-13190	MG	0.00	0.00	500.00
3630	-12516	-12601	-12602	-12526	MG	0.00	0.00	500.00
3630	-12601	-12675	-12676	-12602	MG	0.00	0.00	500.00

3630	-12675	-12746	-12747	-12676	MG	0.00	0.00	500.00
3630	-12746	-12816	-12817	-12747	MG	0.00	0.00	500.00
3630	-12816	-12886	-12887	-12817	MG	0.00	0.00	500.00
3630	-12886	-12970	-12961	-12887	MG	0.00	0.00	500.00
3630	-12970	-13047	-13048	-12961	MG	0.00	0.00	500.00
3630	-13047	-13113	-13114	-13048	MG	0.00	0.00	500.00
3630	-13113	-13190	-13169	-13114	MG	0.00	0.00	500.00
3630	-13190	-13255	-13256	-13169	MG	0.00	0.00	500.00
3630	-12526	-12602	-12603	-12527	MG	0.00	0.00	500.00
3630	-12602	-12676	-12677	-12603	MG	0.00	0.00	500.00
3630	-12676	-12747	-12748	-12677	MG	0.00	0.00	500.00
3630	-12747	-12817	-12818	-12748	MG	0.00	0.00	500.00
3630	-12817	-12887	-12888	-12818	MG	0.00	0.00	500.00
3630	-12887	-12961	-12971	-12888	MG	0.00	0.00	500.00
3630	-12961	-13048	-13049	-12971	MG	0.00	0.00	500.00
3630	-13048	-13114	-13115	-13049	MG	0.00	0.00	500.00
3630	-13114	-13169	-13191	-13115	MG	0.00	0.00	500.00
3630	-13169	-13256	-13257	-13191	MG	0.00	0.00	500.00
3630	-12527	-12603	-12604	-12547	MG	0.00	0.00	500.00
3630	-12603	-12677	-12678	-12604	MG	0.00	0.00	500.00
3630	-12677	-12748	-12749	-12678	MG	0.00	0.00	500.00
3630	-12748	-12818	-12819	-12749	MG	0.00	0.00	500.00
3630	-12818	-12888	-12889	-12819	MG	0.00	0.00	500.00
3630	-12888	-12971	-12972	-12889	MG	0.00	0.00	500.00
3630	-12971	-13049	-13050	-12972	MG	0.00	0.00	500.00
3630	-13049	-13115	-13127	-13050	MG	0.00	0.00	500.00
3630	-13115	-13191	-13192	-13127	MG	0.00	0.00	500.00
3630	-13191	-13257	-13258	-13192	MG	0.00	0.00	500.00
3630	-11060	-11122	-11123	-11061	MG	0.00	0.00	500.00
3630	-11122	-11188	-11189	-11123	MG	0.00	0.00	500.00
3630	-11188	-11254	-11255	-11189	MG	0.00	0.00	500.00
3630	-11254	-11326	-11327	-11255	MG	0.00	0.00	500.00
3630	-11326	-11392	-11393	-11327	MG	0.00	0.00	500.00
3630	-11392	-11462	-11463	-11393	MG	0.00	0.00	500.00
3630	-11462	-11532	-11533	-11463	MG	0.00	0.00	500.00
3630	-11532	-11602	-11603	-11533	MG	0.00	0.00	500.00
3630	-11602	-11676	-11677	-11603	MG	0.00	0.00	500.00
3630	-11676	-11740	-11741	-11677	MG	0.00	0.00	500.00
3630	-11061	-11123	-11124	-11062	MG	0.00	0.00	500.00
3630	-11123	-11189	-11190	-11124	MG	0.00	0.00	500.00
3630	-11189	-11255	-11256	-11190	MG	0.00	0.00	500.00
3630	-11255	-11327	-11328	-11256	MG	0.00	0.00	500.00
3630	-11327	-11393	-11394	-11328	MG	0.00	0.00	500.00
3630	-11393	-11463	-11464	-11394	MG	0.00	0.00	500.00
3630	-11463	-11533	-11534	-11464	MG	0.00	0.00	500.00
3630	-11533	-11603	-11604	-11534	MG	0.00	0.00	500.00
3630	-11603	-11677	-11663	-11604	MG	0.00	0.00	500.00
3630	-11677	-11741	-11742	-11663	MG	0.00	0.00	500.00
3630	-11062	-11124	-11125	-11038	MG	0.00	0.00	500.00
3630	-11124	-11190	-11191	-11125	MG	0.00	0.00	500.00
3630	-11190	-11256	-11257	-11191	MG	0.00	0.00	500.00
3630	-11256	-11328	-11329	-11257	MG	0.00	0.00	500.00
3630	-11328	-11394	-11395	-11329	MG	0.00	0.00	500.00
3630	-11394	-11464	-11465	-11395	MG	0.00	0.00	500.00
3630	-11464	-11534	-11535	-11465	MG	0.00	0.00	500.00
3630	-11534	-11604	-11605	-11535	MG	0.00	0.00	500.00
3630	-11604	-11663	-11664	-11605	MG	0.00	0.00	500.00
3630	-11663	-11742	-11743	-11664	MG	0.00	0.00	500.00
3630	-11038	-11125	-11126	-11063	MG	0.00	0.00	500.00
3630	-11125	-11191	-11192	-11126	MG	0.00	0.00	500.00
3630	-11191	-11257	-11258	-11192	MG	0.00	0.00	500.00
3630	-11257	-11329	-11330	-11258	MG	0.00	0.00	500.00
3630	-11329	-11395	-11396	-11330	MG	0.00	0.00	500.00
3630	-11395	-11465	-11466	-11396	MG	0.00	0.00	500.00
3630	-11465	-11535	-11536	-11466	MG	0.00	0.00	500.00
3630	-11535	-11605	-11606	-11536	MG	0.00	0.00	500.00
3630	-11605	-11664	-11678	-11606	MG	0.00	0.00	500.00
3630	-11664	-11743	-11744	-11678	MG	0.00	0.00	500.00
3630	-11063	-11126	-11127	-11050	MG	0.00	0.00	500.00
3630	-11126	-11192	-11193	-11127	MG	0.00	0.00	500.00
3630	-11192	-11258	-11259	-11193	MG	0.00	0.00	500.00
3630	-11258	-11330	-11331	-11259	MG	0.00	0.00	500.00
3630	-11330	-11396	-11397	-11331	MG	0.00	0.00	500.00
3630	-11396	-11466	-11467	-11397	MG	0.00	0.00	500.00
3630	-11466	-11536	-11537	-11467	MG	0.00	0.00	500.00
3630	-11536	-11606	-11607	-11537	MG	0.00	0.00	500.00
3630	-11606	-11678	-11665	-11607	MG	0.00	0.00	500.00
3630	-11678	-11744	-11745	-11665	MG	0.00	0.00	500.00
3630	-11050	-11127	-11128	-11051	MG	0.00	0.00	500.00

3630	-11127	-11193	-11194	-11128	MG	0.00	0.00	500.00
3630	-11193	-11259	-11260	-11194	MG	0.00	0.00	500.00
3630	-11259	-11331	-11332	-11260	MG	0.00	0.00	500.00
3630	-11331	-11397	-11398	-11332	MG	0.00	0.00	500.00
3630	-11397	-11467	-11468	-11398	MG	0.00	0.00	500.00
3630	-11467	-11537	-11538	-11468	MG	0.00	0.00	500.00
3630	-11537	-11607	-11608	-11538	MG	0.00	0.00	500.00
3630	-11607	-11665	-11666	-11608	MG	0.00	0.00	500.00
3630	-11665	-11745	-11746	-11666	MG	0.00	0.00	500.00
3630	-11051	-11128	-11129	-11064	MG	0.00	0.00	500.00
3630	-11128	-11194	-11195	-11129	MG	0.00	0.00	500.00
3630	-11194	-11260	-11261	-11195	MG	0.00	0.00	500.00
3630	-11260	-11332	-11333	-11261	MG	0.00	0.00	500.00
3630	-11332	-11398	-11399	-11333	MG	0.00	0.00	500.00
3630	-11398	-11468	-11469	-11399	MG	0.00	0.00	500.00
3630	-11468	-11538	-11539	-11469	MG	0.00	0.00	500.00
3630	-11538	-11608	-11609	-11539	MG	0.00	0.00	500.00
3630	-11608	-11666	-11679	-11609	MG	0.00	0.00	500.00
3630	-11666	-11746	-11747	-11679	MG	0.00	0.00	500.00
3630	-11064	-11129	-11130	-11065	MG	0.00	0.00	500.00
3630	-11129	-11195	-11196	-11130	MG	0.00	0.00	500.00
3630	-11195	-11261	-11262	-11196	MG	0.00	0.00	500.00
3630	-11261	-11333	-11334	-11262	MG	0.00	0.00	500.00
3630	-11333	-11399	-11400	-11334	MG	0.00	0.00	500.00
3630	-11399	-11469	-11470	-11400	MG	0.00	0.00	500.00
3630	-11469	-11539	-11540	-11470	MG	0.00	0.00	500.00
3630	-11539	-11609	-11610	-11540	MG	0.00	0.00	500.00
3630	-11609	-11679	-11679	-11610	MG	0.00	0.00	500.00
3630	-11679	-11747	-11748	-11667	MG	0.00	0.00	500.00
3630	-11065	-11130	-11131	-11066	MG	0.00	0.00	500.00
3630	-11130	-11196	-11197	-11131	MG	0.00	0.00	500.00
3630	-11196	-11262	-11263	-11197	MG	0.00	0.00	500.00
3630	-11262	-11334	-11335	-11263	MG	0.00	0.00	500.00
3630	-11334	-11400	-11401	-11335	MG	0.00	0.00	500.00
3630	-11400	-11470	-11471	-11401	MG	0.00	0.00	500.00
3630	-11470	-11540	-11541	-11471	MG	0.00	0.00	500.00
3630	-11540	-11610	-11611	-11541	MG	0.00	0.00	500.00
3630	-11610	-11667	-11680	-11611	MG	0.00	0.00	500.00
3630	-11667	-11748	-11749	-11680	MG	0.00	0.00	500.00
3630	-11066	-11131	-11132	-11067	MG	0.00	0.00	500.00
3630	-11131	-11197	-11198	-11132	MG	0.00	0.00	500.00
3630	-11197	-11263	-11264	-11198	MG	0.00	0.00	500.00
3630	-11263	-11335	-11336	-11264	MG	0.00	0.00	500.00
3630	-11335	-11401	-11402	-11336	MG	0.00	0.00	500.00
3630	-11401	-11471	-11472	-11402	MG	0.00	0.00	500.00
3630	-11471	-11541	-11542	-11472	MG	0.00	0.00	500.00
3630	-11541	-11611	-11612	-11542	MG	0.00	0.00	500.00
3630	-11611	-11680	-11681	-11612	MG	0.00	0.00	500.00
3630	-11680	-11749	-11750	-11681	MG	0.00	0.00	500.00
3630	-11067	-11132	-11133	-11068	MG	0.00	0.00	500.00
3630	-11132	-11198	-11199	-11133	MG	0.00	0.00	500.00
3630	-11198	-11264	-11265	-11199	MG	0.00	0.00	500.00
3630	-11264	-11336	-11337	-11265	MG	0.00	0.00	500.00
3630	-11336	-11402	-11403	-11337	MG	0.00	0.00	500.00
3630	-11402	-11472	-11473	-11403	MG	0.00	0.00	500.00
3630	-11472	-11542	-11543	-11473	MG	0.00	0.00	500.00
3630	-11542	-11612	-11613	-11543	MG	0.00	0.00	500.00
3630	-11612	-11681	-11685	-11613	MG	0.00	0.00	500.00
3630	-11681	-11750	-11751	-11685	MG	0.00	0.00	500.00
3630	-11068	-11133	-11134	-11069	MG	0.00	0.00	500.00
3630	-11493	-11563	-11564	-11494	MG	0.00	0.00	500.00
3630	-11199	-11265	-11266	-11200	MG	0.00	0.00	500.00
3630	-11265	-11337	-11338	-11266	MG	0.00	0.00	500.00
3630	-11337	-11403	-11404	-11338	MG	0.00	0.00	500.00
3630	-11345	-11411	-11412	-11346	MG	0.00	0.00	500.00
3630	-11411	-11481	-11482	-11412	MG	0.00	0.00	500.00
3630	-12450	-12535	-12549	-12451	MG	0.00	0.00	500.00
3630	-11551	-11621	-11622	-11552	MG	0.00	0.00	500.00
3630	-11621	-11693	-11694	-11622	MG	0.00	0.00	500.00
3630	-10376	-10426	-10427	-10366	MG	0.00	0.00	500.00
3630	-10426	-10506	-10507	-10427	MG	0.00	0.00	500.00
3630	-14006	-14005	-14063	-14077	MG	0.00	0.00	500.00
3630	-14005	-14004	-14076	-14063	MG	0.00	0.00	500.00
3630	-14077	-14063	-14140	-14141	MG	0.00	0.00	500.00
3630	-14063	-14076	-14139	-14140	MG	0.00	0.00	500.00
3630	-14141	-14140	-14206	-14207	MG	0.00	0.00	500.00
3630	-14140	-14139	-14205	-14206	MG	0.00	0.00	500.00
3630	-14207	-14206	-14272	-14273	MG	0.00	0.00	500.00
3630	-10296	-10366	-10367	-10297	MG	0.00	0.00	500.00

3630	-14273	-14272	-14338	-14339	MG	0.00	0.00	500.00
3630	-10427	-10507	-10508	-10428	MG	0.00	0.00	500.00
3630	-14339	-14338	-14404	-14405	MG	0.00	0.00	500.00
3630	-14338	-14337	-14403	-14404	MG	0.00	0.00	500.00
3630	-14405	-14404	-14470	-14471	MG	0.00	0.00	500.00
3630	-10793	-10863	-10864	-10794	MG	0.00	0.00	500.00
3630	-10863	-10894	-10914	-10864	MG	0.00	0.00	500.00
3630	-10894	-11000	-11001	-10914	MG	0.00	0.00	500.00
3630	-11000	-11078	-11079	-11001	MG	0.00	0.00	500.00
3630	-10297	-10367	-10368	-10298	MG	0.00	0.00	500.00
3630	-15271	-15270	-15336	-15337	MG	0.00	0.00	500.00
3630	-15337	-15336	-15402	-15403	MG	0.00	0.00	500.00
3630	-15403	-15402	-15468	-15469	MG	0.00	0.00	500.00
3630	-10569	-10709	-10710	-10593	MG	0.00	0.00	500.00
3630	-10709	-10794	-10795	-10710	MG	0.00	0.00	500.00
3630	-10794	-10864	-10865	-10795	MG	0.00	0.00	500.00
3630	-10864	-10914	-10935	-10865	MG	0.00	0.00	500.00
3630	-10914	-11001	-11002	-10935	MG	0.00	0.00	500.00
3630	-11001	-11079	-11080	-11002	MG	0.00	0.00	500.00
3630	-10298	-10368	-10369	-10299	MG	0.00	0.00	500.00
3630	-10368	-10429	-10445	-10369	MG	0.00	0.00	500.00
3630	-10429	-10509	-10510	-10445	MG	0.00	0.00	500.00
3630	-10509	-10593	-10619	-10510	MG	0.00	0.00	500.00
3630	-11552	-11622	-11623	-11553	MG	0.00	0.00	500.00
3630	-12248	-12320	-12321	-12249	MG	0.00	0.00	500.00
3630	-11694	-11760	-11761	-11695	MG	0.00	0.00	500.00
3630	-10865	-10935	-10936	-10866	MG	0.00	0.00	500.00
3630	-10935	-11002	-11003	-10936	MG	0.00	0.00	500.00
3630	-11002	-11080	-11081	-11003	MG	0.00	0.00	500.00
3630	-13412	-13484	-13485	-13413	MG	0.00	0.00	500.00
3630	-13484	-13554	-13555	-13485	MG	0.00	0.00	500.00
3630	-12000	-12070	-12023	-11973	MG	0.00	0.00	500.00
3630	-12070	-12165	-12121	-12023	MG	0.00	0.00	500.00
3630	-13686	-13752	-13753	-13687	MG	0.00	0.00	500.00
3630	-10711	-10796	-10797	-10712	MG	0.00	0.00	500.00
3630	-10796	-10866	-10867	-10797	MG	0.00	0.00	500.00
3630	-11079	-11144	-11145	-11080	MG	0.00	0.00	500.00
3630	-13277	-13346	-13347	-13278	MG	0.00	0.00	500.00
3630	-11768	-11834	-11835	-11769	MG	0.00	0.00	500.00
3630	-11834	-11902	-11903	-11835	MG	0.00	0.00	500.00
3630	-10377	-10446	-10447	-10370	MG	0.00	0.00	500.00
3630	-11973	-12023	-12055	-12001	MG	0.00	0.00	500.00
3630	-13621	-13687	-13688	-13622	MG	0.00	0.00	500.00
3630	-10524	-10712	-10713	-10594	MG	0.00	0.00	500.00
3630	-10712	-10797	-10798	-10713	MG	0.00	0.00	500.00
3630	-12322	-12390	-12391	-12323	MG	0.00	0.00	500.00
3630	-13885	-13953	-13954	-13886	MG	0.00	0.00	500.00
3630	-12534	-12612	-12613	-12548	MG	0.00	0.00	500.00
3630	-12612	-12686	-12687	-12613	MG	0.00	0.00	500.00
3630	-10301	-10370	-10371	-10302	MG	0.00	0.00	500.00
3630	-10370	-10447	-10430	-10371	MG	0.00	0.00	500.00
3630	-10447	-10512	-10513	-10430	MG	0.00	0.00	500.00
3630	-10512	-10594	-10595	-10513	MG	0.00	0.00	500.00
3630	-10594	-10713	-10714	-10595	MG	0.00	0.00	500.00
3630	-13058	-13120	-13130	-13059	MG	0.00	0.00	500.00
3630	-13120	-13200	-13201	-13130	MG	0.00	0.00	500.00
3630	-13200	-13266	-13267	-13201	MG	0.00	0.00	500.00
3630	-10938	-11005	-11006	-10939	MG	0.00	0.00	500.00
3630	-11005	-11083	-11084	-11006	MG	0.00	0.00	500.00
3630	-10302	-10371	-10378	-10303	MG	0.00	0.00	500.00
3630	-10371	-10430	-10431	-10378	MG	0.00	0.00	500.00
3630	-10430	-10513	-10514	-10431	MG	0.00	0.00	500.00
3630	-10513	-10595	-10596	-10514	MG	0.00	0.00	500.00
3630	-10595	-10714	-10715	-10596	MG	0.00	0.00	500.00
3630	-10714	-10799	-10800	-10715	MG	0.00	0.00	500.00
3630	-10799	-10868	-10869	-10800	MG	0.00	0.00	500.00
3630	-10868	-10939	-10940	-10869	MG	0.00	0.00	500.00
3630	-12535	-12614	-12615	-12549	MG	0.00	0.00	500.00
3630	-12614	-12688	-12689	-12615	MG	0.00	0.00	500.00
3630	-10303	-10378	-10379	-10304	MG	0.00	0.00	500.00
3630	-10378	-10431	-10448	-10379	MG	0.00	0.00	500.00
3630	-10431	-10514	-10515	-10448	MG	0.00	0.00	500.00
3630	-10514	-10596	-10626	-10515	MG	0.00	0.00	500.00
3630	-12979	-13060	-13061	-12980	MG	0.00	0.00	500.00
3630	-10715	-10800	-10801	-10716	MG	0.00	0.00	500.00
3630	-10800	-10869	-10870	-10801	MG	0.00	0.00	500.00
3630	-10869	-10940	-10941	-10870	MG	0.00	0.00	500.00
3630	-10940	-11007	-11008	-10941	MG	0.00	0.00	500.00
3630	-11007	-11039	-11085	-11008	MG	0.00	0.00	500.00

3630	-10304	-10379	-10372	-10305	MG	0.00	0.00	500.00
3630	-12760	-12830	-12831	-12761	MG	0.00	0.00	500.00
3630	-12830	-12900	-12901	-12831	MG	0.00	0.00	500.00
3630	-12900	-12980	-12981	-12901	MG	0.00	0.00	500.00
3630	-12980	-13061	-13062	-12981	MG	0.00	0.00	500.00
3630	-10716	-10801	-10802	-10686	MG	0.00	0.00	500.00
3630	-10801	-10870	-10871	-10802	MG	0.00	0.00	500.00
3630	-10870	-10941	-10942	-10871	MG	0.00	0.00	500.00
3630	-10941	-11008	-11009	-10942	MG	0.00	0.00	500.00
3630	-12616	-12690	-12691	-12617	MG	0.00	0.00	500.00
3630	-10305	-10372	-10380	-10306	MG	0.00	0.00	500.00
3630	-10372	-10449	-10450	-10380	MG	0.00	0.00	500.00
3630	-12831	-12901	-12902	-12832	MG	0.00	0.00	500.00
3630	-12901	-12981	-12982	-12902	MG	0.00	0.00	500.00
3630	-10597	-10686	-10717	-10598	MG	0.00	0.00	500.00
3630	-10686	-10802	-10803	-10717	MG	0.00	0.00	500.00
3630	-10802	-10871	-10872	-10803	MG	0.00	0.00	500.00
3630	-10871	-10942	-10943	-10872	MG	0.00	0.00	500.00
3630	-10942	-11009	-11010	-10943	MG	0.00	0.00	500.00
3630	-11009	-11086	-11087	-11010	MG	0.00	0.00	500.00
3630	-12691	-12762	-12763	-12692	MG	0.00	0.00	500.00
3630	-12762	-12832	-12833	-12763	MG	0.00	0.00	500.00
3630	-10450	-10517	-10518	-10451	MG	0.00	0.00	500.00
3630	-10517	-10598	-10627	-10518	MG	0.00	0.00	500.00
3630	-10598	-10717	-10718	-10627	MG	0.00	0.00	500.00
3630	-10717	-10803	-10804	-10718	MG	0.00	0.00	500.00
3630	-10803	-10872	-10873	-10804	MG	0.00	0.00	500.00
3630	-10872	-10943	-10944	-10873	MG	0.00	0.00	500.00
3630	-10943	-11010	-11011	-10944	MG	0.00	0.00	500.00
3630	-11010	-11087	-11088	-11011	MG	0.00	0.00	500.00
3630	-11760	-11826	-11827	-11761	MG	0.00	0.00	500.00
3630	-11826	-11898	-11899	-11827	MG	0.00	0.00	500.00
3630	-12833	-12903	-12904	-12834	MG	0.00	0.00	500.00
3630	-11940	-12053	-12068	-12011	MG	0.00	0.00	500.00
3630	-12053	-12163	-12146	-12068	MG	0.00	0.00	500.00
3630	-12163	-12242	-12243	-12146	MG	0.00	0.00	500.00
3630	-12242	-12314	-12315	-12243	MG	0.00	0.00	500.00
3630	-12314	-12382	-12383	-12315	MG	0.00	0.00	500.00
3630	-12382	-12448	-12449	-12383	MG	0.00	0.00	500.00
3630	-12448	-12534	-12548	-12449	MG	0.00	0.00	500.00
3630	-11761	-11827	-11828	-11762	MG	0.00	0.00	500.00
3630	-11827	-11889	-11890	-11828	MG	0.00	0.00	500.00
3630	-12834	-12904	-12905	-12835	MG	0.00	0.00	500.00
3630	-12011	-12068	-12022	-11983	MG	0.00	0.00	500.00
3630	-12068	-12146	-12164	-12022	MG	0.00	0.00	500.00
3630	-13065	-13135	-13136	-13066	MG	0.00	0.00	500.00
3630	-13135	-13207	-13208	-13136	MG	0.00	0.00	500.00
3630	-13207	-13273	-13274	-13208	MG	0.00	0.00	500.00
3630	-12550	-12620	-12621	-12540	MG	0.00	0.00	500.00
3630	-12449	-12548	-12535	-12450	MG	0.00	0.00	500.00
3630	-11762	-11828	-11829	-11763	MG	0.00	0.00	500.00
3630	-12765	-12835	-12836	-12766	MG	0.00	0.00	500.00
3630	-11890	-11983	-12012	-11899	MG	0.00	0.00	500.00
3630	-12905	-12985	-12986	-12906	MG	0.00	0.00	500.00
3630	-12022	-12164	-12171	-12101	MG	0.00	0.00	500.00
3630	-12164	-12244	-12245	-12171	MG	0.00	0.00	500.00
3630	-13136	-13208	-13209	-13137	MG	0.00	0.00	500.00
3630	-13208	-13274	-13275	-13209	MG	0.00	0.00	500.00
3630	-12384	-12450	-12451	-12385	MG	0.00	0.00	500.00
3630	-12621	-12695	-12696	-12622	MG	0.00	0.00	500.00
3630	-11763	-11829	-11830	-11764	MG	0.00	0.00	500.00
3630	-11829	-11899	-11891	-11830	MG	0.00	0.00	500.00
3630	-12836	-12906	-12907	-12837	MG	0.00	0.00	500.00
3630	-12906	-12986	-12987	-12907	MG	0.00	0.00	500.00
3630	-12986	-13067	-13068	-12987	MG	0.00	0.00	500.00
3630	-13067	-13137	-13138	-13068	MG	0.00	0.00	500.00
3630	-12245	-12317	-12318	-12246	MG	0.00	0.00	500.00
3630	-12317	-12385	-12386	-12318	MG	0.00	0.00	500.00
3630	-12385	-12451	-12452	-12386	MG	0.00	0.00	500.00
3630	-12451	-12549	-12536	-12452	MG	0.00	0.00	500.00
3630	-11764	-11830	-11831	-11765	MG	0.00	0.00	500.00
3630	-11830	-11891	-11892	-11831	MG	0.00	0.00	500.00
3630	-11891	-12013	-11998	-11892	MG	0.00	0.00	500.00
3630	-12013	-12054	-12069	-11998	MG	0.00	0.00	500.00
3630	-12054	-12115	-12187	-12069	MG	0.00	0.00	500.00
3630	-12115	-12246	-12247	-12187	MG	0.00	0.00	500.00
3630	-13138	-13210	-13211	-13139	MG	0.00	0.00	500.00
3630	-12318	-12386	-12387	-12319	MG	0.00	0.00	500.00
3630	-12542	-12623	-12624	-12543	MG	0.00	0.00	500.00

3630	-12452	-12536	-12537	-12453	MG	0.00	0.00	500.00
3630	-11765	-11831	-11832	-11766	MG	0.00	0.00	500.00
3630	-11831	-11892	-11900	-11832	MG	0.00	0.00	500.00
3630	-12838	-12908	-12909	-12839	MG	0.00	0.00	500.00
3630	-11998	-12069	-12102	-11999	MG	0.00	0.00	500.00
3630	-12069	-12187	-12120	-12102	MG	0.00	0.00	500.00
3630	-12187	-12247	-12248	-12120	MG	0.00	0.00	500.00
3630	-12247	-12319	-12320	-12248	MG	0.00	0.00	500.00
3630	-12319	-12387	-12388	-12320	MG	0.00	0.00	500.00
3630	-12387	-12453	-12454	-12388	MG	0.00	0.00	500.00
3630	-11142	-11208	-11209	-11143	MG	0.00	0.00	500.00
3630	-11208	-11274	-11275	-11209	MG	0.00	0.00	500.00
3630	-11274	-11346	-11347	-11275	MG	0.00	0.00	500.00
3630	-11346	-11412	-11413	-11347	MG	0.00	0.00	500.00
3630	-11999	-12102	-12070	-12000	MG	0.00	0.00	500.00
3630	-11482	-11552	-11553	-11483	MG	0.00	0.00	500.00
3630	-13268	-13337	-13338	-13269	MG	0.00	0.00	500.00
3630	-11622	-11694	-11695	-11623	MG	0.00	0.00	500.00
3630	-13404	-13476	-13477	-13405	MG	0.00	0.00	500.00
3630	-12388	-12454	-12455	-12389	MG	0.00	0.00	500.00
3630	-12454	-12538	-12539	-12455	MG	0.00	0.00	500.00
3630	-11209	-11275	-11276	-11210	MG	0.00	0.00	500.00
3630	-11275	-11347	-11348	-11276	MG	0.00	0.00	500.00
3630	-11901	-12000	-11973	-11902	MG	0.00	0.00	500.00
3630	-11413	-11483	-11484	-11414	MG	0.00	0.00	500.00
3630	-11483	-11553	-11554	-11484	MG	0.00	0.00	500.00
3630	-12165	-12249	-12250	-12121	MG	0.00	0.00	500.00
3630	-12249	-12321	-12322	-12250	MG	0.00	0.00	500.00
3630	-12321	-12389	-12390	-12322	MG	0.00	0.00	500.00
3630	-13477	-13547	-13548	-13478	MG	0.00	0.00	500.00
3630	-11144	-11210	-11211	-11145	MG	0.00	0.00	500.00
3630	-11210	-11276	-11277	-11211	MG	0.00	0.00	500.00
3630	-11276	-11348	-11349	-11277	MG	0.00	0.00	500.00
3630	-11902	-11973	-12001	-11903	MG	0.00	0.00	500.00
3630	-11414	-11484	-11485	-11415	MG	0.00	0.00	500.00
3630	-12023	-12121	-12188	-12055	MG	0.00	0.00	500.00
3630	-12121	-12250	-12251	-12188	MG	0.00	0.00	500.00
3630	-12250	-12322	-12323	-12251	MG	0.00	0.00	500.00
3630	-11696	-11762	-11763	-11697	MG	0.00	0.00	500.00
3630	-11080	-11145	-11146	-11081	MG	0.00	0.00	500.00
3630	-12456	-12550	-12540	-12457	MG	0.00	0.00	500.00
3630	-11211	-11277	-11278	-11212	MG	0.00	0.00	500.00
3630	-11277	-11349	-11350	-11278	MG	0.00	0.00	500.00
3630	-11349	-11415	-11416	-11350	MG	0.00	0.00	500.00
3630	-12001	-12055	-12024	-11941	MG	0.00	0.00	500.00
3630	-11485	-11555	-11556	-11486	MG	0.00	0.00	500.00
3630	-12188	-12251	-12252	-12122	MG	0.00	0.00	500.00
3630	-12251	-12323	-12324	-12252	MG	0.00	0.00	500.00
3630	-12323	-12391	-12392	-12324	MG	0.00	0.00	500.00
3630	-12391	-12457	-12458	-12392	MG	0.00	0.00	500.00
3630	-12457	-12540	-12541	-12458	MG	0.00	0.00	500.00
3630	-11770	-11836	-11837	-11771	MG	0.00	0.00	500.00
3630	-11836	-11904	-11905	-11837	MG	0.00	0.00	500.00
3630	-11904	-11941	-12002	-11905	MG	0.00	0.00	500.00
3630	-11416	-11486	-11487	-11417	MG	0.00	0.00	500.00
3630	-11486	-11556	-11557	-11487	MG	0.00	0.00	500.00
3630	-12122	-12252	-12253	-12172	MG	0.00	0.00	500.00
3630	-11626	-11698	-11699	-11627	MG	0.00	0.00	500.00
3630	-11698	-11764	-11765	-11699	MG	0.00	0.00	500.00
3630	-11082	-11147	-11148	-11083	MG	0.00	0.00	500.00
3630	-11147	-11213	-11214	-11148	MG	0.00	0.00	500.00
3630	-11213	-11279	-11280	-11214	MG	0.00	0.00	500.00
3630	-11279	-11351	-11352	-11280	MG	0.00	0.00	500.00
3630	-11905	-12002	-12003	-11906	MG	0.00	0.00	500.00
3630	-12002	-12071	-12072	-12003	MG	0.00	0.00	500.00
3630	-12071	-12172	-12173	-12072	MG	0.00	0.00	500.00
3630	-12172	-12253	-12254	-12173	MG	0.00	0.00	500.00
3630	-12253	-12325	-12326	-12254	MG	0.00	0.00	500.00
3630	-11699	-11765	-11766	-11700	MG	0.00	0.00	500.00
3630	-11083	-11148	-11149	-11084	MG	0.00	0.00	500.00
3630	-11148	-11214	-11215	-11149	MG	0.00	0.00	500.00
3630	-13266	-13335	-13336	-13267	MG	0.00	0.00	500.00
3630	-13335	-13402	-13403	-13336	MG	0.00	0.00	500.00
3630	-13402	-13474	-13475	-13403	MG	0.00	0.00	500.00
3630	-13474	-13544	-13545	-13475	MG	0.00	0.00	500.00
3630	-13544	-13610	-13611	-13545	MG	0.00	0.00	500.00
3630	-11558	-11628	-11629	-11559	MG	0.00	0.00	500.00
3630	-11628	-11700	-11701	-11629	MG	0.00	0.00	500.00
3630	-13742	-13808	-13809	-13743	MG	0.00	0.00	500.00

3630	-13808	-13874	-13875	-13809	MG	0.00	0.00	500.00
3630	-13874	-13942	-13943	-13875	MG	0.00	0.00	500.00
3630	-13267	-13336	-13337	-13268	MG	0.00	0.00	500.00
3630	-13336	-13403	-13404	-13337	MG	0.00	0.00	500.00
3630	-13403	-13475	-13476	-13404	MG	0.00	0.00	500.00
3630	-13475	-13545	-13546	-13476	MG	0.00	0.00	500.00
3630	-13545	-13611	-13612	-13546	MG	0.00	0.00	500.00
3630	-13611	-13677	-13678	-13612	MG	0.00	0.00	500.00
3630	-13677	-13743	-13744	-13678	MG	0.00	0.00	500.00
3630	-11701	-11767	-11768	-11702	MG	0.00	0.00	500.00
3630	-11039	-11150	-11151	-11085	MG	0.00	0.00	500.00
3630	-11150	-11216	-11217	-11151	MG	0.00	0.00	500.00
3630	-12537	-12617	-12618	-12538	MG	0.00	0.00	500.00
3630	-13337	-13404	-13405	-13338	MG	0.00	0.00	500.00
3630	-11282	-11354	-11355	-11283	MG	0.00	0.00	500.00
3630	-11420	-11490	-11491	-11421	MG	0.00	0.00	500.00
3630	-11490	-11560	-11561	-11491	MG	0.00	0.00	500.00
3630	-11560	-11630	-11631	-11561	MG	0.00	0.00	500.00
3630	-11630	-11702	-11703	-11631	MG	0.00	0.00	500.00
3630	-11702	-11768	-11769	-11703	MG	0.00	0.00	500.00
3630	-13810	-13876	-13877	-13811	MG	0.00	0.00	500.00
3630	-11151	-11217	-11218	-11152	MG	0.00	0.00	500.00
3630	-13269	-13338	-13339	-13270	MG	0.00	0.00	500.00
3630	-13338	-13405	-13406	-13339	MG	0.00	0.00	500.00
3630	-11355	-11421	-11422	-11356	MG	0.00	0.00	500.00
3630	-13818	-13884	-13885	-13819	MG	0.00	0.00	500.00
3630	-13547	-13613	-13614	-13548	MG	0.00	0.00	500.00
3630	-13613	-13679	-13680	-13614	MG	0.00	0.00	500.00
3630	-11631	-11703	-11704	-11632	MG	0.00	0.00	500.00
3630	-13745	-13811	-13812	-13746	MG	0.00	0.00	500.00
3630	-11086	-11152	-11153	-11087	MG	0.00	0.00	500.00
3630	-13877	-13945	-13946	-13878	MG	0.00	0.00	500.00
3630	-13270	-13339	-13340	-13271	MG	0.00	0.00	500.00
3630	-13339	-13406	-13407	-13340	MG	0.00	0.00	500.00
3630	-11356	-11422	-11423	-11357	MG	0.00	0.00	500.00
3630	-11422	-11492	-11493	-11423	MG	0.00	0.00	500.00
3630	-13548	-13614	-13615	-13549	MG	0.00	0.00	500.00
3630	-13614	-13680	-13681	-13615	MG	0.00	0.00	500.00
3630	-13680	-13746	-13747	-13681	MG	0.00	0.00	500.00
3630	-13746	-13812	-13813	-13747	MG	0.00	0.00	500.00
3630	-13812	-13878	-13879	-13813	MG	0.00	0.00	500.00
3630	-13878	-13946	-13947	-13879	MG	0.00	0.00	500.00
3630	-13271	-13340	-13341	-13272	MG	0.00	0.00	500.00
3630	-13340	-13407	-13408	-13341	MG	0.00	0.00	500.00
3630	-13407	-13479	-13480	-13408	MG	0.00	0.00	500.00
3630	-13479	-13549	-13550	-13480	MG	0.00	0.00	500.00
3630	-13549	-13615	-13616	-13550	MG	0.00	0.00	500.00
3630	-13615	-13681	-13682	-13616	MG	0.00	0.00	500.00
3630	-13681	-13747	-13748	-13682	MG	0.00	0.00	500.00
3630	-13747	-13813	-13814	-13748	MG	0.00	0.00	500.00
3630	-12758	-12828	-12829	-12759	MG	0.00	0.00	500.00
3630	-12540	-12621	-12622	-12541	MG	0.00	0.00	500.00
3630	-12898	-12978	-12979	-12899	MG	0.00	0.00	500.00
3630	-12695	-12766	-12767	-12696	MG	0.00	0.00	500.00
3630	-13408	-13480	-13481	-13409	MG	0.00	0.00	500.00
3630	-11693	-11759	-11760	-11694	MG	0.00	0.00	500.00
3630	-13550	-13616	-13617	-13551	MG	0.00	0.00	500.00
3630	-13935	-13934	-14004	-14005	MG	0.00	0.00	500.00
3630	-11347	-11413	-11414	-11348	MG	0.00	0.00	500.00
3630	-13137	-13209	-13210	-13138	MG	0.00	0.00	500.00
3630	-13209	-13275	-13276	-13210	MG	0.00	0.00	500.00
3630	-13880	-13948	-13949	-13881	MG	0.00	0.00	500.00
3630	-13273	-13342	-13343	-13274	MG	0.00	0.00	500.00
3630	-12696	-12767	-12768	-12697	MG	0.00	0.00	500.00
3630	-14206	-14205	-14271	-14272	MG	0.00	0.00	500.00
3630	-13481	-13551	-13552	-13482	MG	0.00	0.00	500.00
3630	-13551	-13617	-13618	-13552	MG	0.00	0.00	500.00
3630	-12987	-13068	-13069	-12988	MG	0.00	0.00	500.00
3630	-13068	-13138	-13139	-13069	MG	0.00	0.00	500.00
3630	-11280	-11352	-11353	-11281	MG	0.00	0.00	500.00
3630	-13815	-13881	-13882	-13816	MG	0.00	0.00	500.00
3630	-13881	-13949	-13950	-13882	MG	0.00	0.00	500.00
3630	-13274	-13343	-13344	-13275	MG	0.00	0.00	500.00
3630	-13343	-13410	-13411	-13344	MG	0.00	0.00	500.00
3630	-13410	-13482	-13483	-13411	MG	0.00	0.00	500.00
3630	-13482	-13552	-13553	-13483	MG	0.00	0.00	500.00
3630	-12908	-12988	-12989	-12909	MG	0.00	0.00	500.00
3630	-12988	-13069	-13070	-12989	MG	0.00	0.00	500.00
3630	-13684	-13750	-13751	-13685	MG	0.00	0.00	500.00



3630	-15535	-15534	-15600	-15601	MG	0.00	0.00	500.00
3630	-13816	-13882	-13883	-13817	MG	0.00	0.00	500.00
3630	-13882	-13950	-13951	-13883	MG	0.00	0.00	500.00
3630	-15733	-15732	-15798	-15799	MG	0.00	0.00	500.00
3630	-15799	-15798	-15864	-15865	MG	0.00	0.00	500.00
3630	-15865	-15864	-15931	-15932	MG	0.00	0.00	500.00
3630	-13483	-13553	-13554	-13484	MG	0.00	0.00	500.00
3630	-11412	-11482	-11483	-11413	MG	0.00	0.00	500.00
3630	-12687	-12758	-12759	-12688	MG	0.00	0.00	500.00
3630	-12617	-12691	-12692	-12618	MG	0.00	0.00	500.00
3630	-11216	-11282	-11283	-11217	MG	0.00	0.00	500.00
3630	-11354	-11420	-11421	-11355	MG	0.00	0.00	500.00
3630	-11078	-11143	-11144	-11079	MG	0.00	0.00	500.00
3630	-11143	-11209	-11210	-11144	MG	0.00	0.00	500.00
3630	-13345	-13412	-13413	-13346	MG	0.00	0.00	500.00
3630	-13063	-13133	-13134	-13064	MG	0.00	0.00	500.00
3630	-12984	-13065	-13066	-12985	MG	0.00	0.00	500.00
3630	-13205	-13271	-13272	-13206	MG	0.00	0.00	500.00
3630	-12538	-12618	-12619	-12539	MG	0.00	0.00	500.00
3630	-11553	-11623	-11624	-11554	MG	0.00	0.00	500.00
3630	-11623	-11695	-11696	-11624	MG	0.00	0.00	500.00
3630	-12763	-12833	-12834	-12764	MG	0.00	0.00	500.00
3630	-11421	-11491	-11492	-11422	MG	0.00	0.00	500.00
3630	-11491	-11561	-11562	-11492	MG	0.00	0.00	500.00
3630	-12983	-13064	-13065	-12984	MG	0.00	0.00	500.00
3630	-13064	-13134	-13135	-13065	MG	0.00	0.00	500.00
3630	-13485	-13555	-13556	-13486	MG	0.00	0.00	500.00
3630	-13206	-13272	-13273	-13207	MG	0.00	0.00	500.00
3630	-11484	-11554	-11555	-11485	MG	0.00	0.00	500.00
3630	-11554	-11624	-11625	-11555	MG	0.00	0.00	500.00
3630	-11624	-11696	-11697	-11625	MG	0.00	0.00	500.00
3630	-12764	-12834	-12835	-12765	MG	0.00	0.00	500.00
3630	-12623	-12697	-12698	-12624	MG	0.00	0.00	500.00
3630	-11145	-11211	-11212	-11146	MG	0.00	0.00	500.00
3630	-13201	-13267	-13268	-13202	MG	0.00	0.00	500.00
3630	-12686	-12757	-12758	-12687	MG	0.00	0.00	500.00
3630	-12757	-12827	-12828	-12758	MG	0.00	0.00	500.00
3630	-11415	-11485	-11486	-11416	MG	0.00	0.00	500.00
3630	-11153	-11219	-11220	-11154	MG	0.00	0.00	500.00
3630	-11555	-11625	-11626	-11556	MG	0.00	0.00	500.00
3630	-11625	-11697	-11698	-11626	MG	0.00	0.00	500.00
3630	-11697	-11763	-11764	-11698	MG	0.00	0.00	500.00
3630	-11081	-11146	-11147	-11082	MG	0.00	0.00	500.00
3630	-12548	-12613	-12614	-12549	MG	0.00	0.00	500.00
3630	-12613	-12687	-12688	-12614	MG	0.00	0.00	500.00
3630	-13204	-13270	-13271	-13205	MG	0.00	0.00	500.00
3630	-11705	-11771	-11772	-11682	MG	0.00	0.00	500.00
3630	-12828	-12898	-12899	-12829	MG	0.00	0.00	500.00
3630	-11350	-11416	-11417	-11351	MG	0.00	0.00	500.00
3630	-12978	-13059	-13060	-12979	MG	0.00	0.00	500.00
3630	-11556	-11626	-11627	-11557	MG	0.00	0.00	500.00
3630	-12766	-12836	-12837	-12767	MG	0.00	0.00	500.00
3630	-13061	-13131	-13132	-13062	MG	0.00	0.00	500.00
3630	-13131	-13203	-13204	-13132	MG	0.00	0.00	500.00
3630	-13133	-13205	-13206	-13134	MG	0.00	0.00	500.00
3630	-12688	-12759	-12760	-12689	MG	0.00	0.00	500.00
3630	-12759	-12829	-12830	-12760	MG	0.00	0.00	500.00
3630	-12829	-12899	-12900	-12830	MG	0.00	0.00	500.00
3630	-12899	-12979	-12980	-12900	MG	0.00	0.00	500.00
3630	-11557	-11627	-11628	-11558	MG	0.00	0.00	500.00
3630	-13060	-13121	-13131	-13061	MG	0.00	0.00	500.00
3630	-13121	-13202	-13203	-13131	MG	0.00	0.00	500.00
3630	-13202	-13268	-13269	-13203	MG	0.00	0.00	500.00
3630	-12549	-12615	-12616	-12536	MG	0.00	0.00	500.00
3630	-12615	-12689	-12690	-12616	MG	0.00	0.00	500.00
3630	-11214	-11280	-11281	-11215	MG	0.00	0.00	500.00
3630	-11352	-11418	-11419	-11353	MG	0.00	0.00	500.00
3630	-11418	-11488	-11489	-11419	MG	0.00	0.00	500.00
3630	-11488	-11558	-11559	-11489	MG	0.00	0.00	500.00
3630	-11284	-11356	-11357	-11285	MG	0.00	0.00	500.00
3630	-12902	-12982	-12983	-12903	MG	0.00	0.00	500.00
3630	-12982	-13063	-13064	-12983	MG	0.00	0.00	500.00
3630	-13203	-13269	-13270	-13204	MG	0.00	0.00	500.00
3630	-12536	-12616	-12617	-12537	MG	0.00	0.00	500.00
3630	-11215	-11281	-11282	-11216	MG	0.00	0.00	500.00
3630	-12690	-12761	-12762	-12691	MG	0.00	0.00	500.00
3630	-12761	-12831	-12832	-12762	MG	0.00	0.00	500.00
3630	-11419	-11489	-11490	-11420	MG	0.00	0.00	500.00
3630	-11489	-11559	-11560	-11490	MG	0.00	0.00	500.00

3630	-12981	-13062	-13063	-12982	MG	0.00	0.00	500.00
3630	-13062	-13132	-13133	-13063	MG	0.00	0.00	500.00
3630	-13132	-13204	-13205	-13133	MG	0.00	0.00	500.00
3630	-12985	-13066	-13067	-12986	MG	0.00	0.00	500.00
3630	-13066	-13136	-13137	-13067	MG	0.00	0.00	500.00
3630	-11278	-11350	-11351	-11279	MG	0.00	0.00	500.00
3630	-11633	-11705	-11682	-11634	MG	0.00	0.00	500.00
3630	-12619	-12693	-12694	-12620	MG	0.00	0.00	500.00
3630	-12832	-12902	-12903	-12833	MG	0.00	0.00	500.00
3630	-14471	-14470	-14536	-14537	MG	0.00	0.00	500.00
3630	-14404	-14403	-14469	-14470	MG	0.00	0.00	500.00
3630	-12904	-12984	-12985	-12905	MG	0.00	0.00	500.00
3630	-11492	-11562	-11563	-11493	MG	0.00	0.00	500.00
3630	-11632	-11704	-11705	-11633	MG	0.00	0.00	500.00
3630	-11085	-11151	-11152	-11086	MG	0.00	0.00	500.00
3630	-12618	-12692	-12693	-12619	MG	0.00	0.00	500.00
3630	-12692	-12763	-12764	-12693	MG	0.00	0.00	500.00
3630	-11283	-11355	-11356	-11284	MG	0.00	0.00	500.00
3630	-11695	-11761	-11762	-11696	MG	0.00	0.00	500.00
3630	-11487	-11557	-11558	-11488	MG	0.00	0.00	500.00
3630	-12767	-12837	-12838	-12768	MG	0.00	0.00	500.00
3630	-11561	-11631	-11632	-11562	MG	0.00	0.00	500.00
3630	-13134	-13206	-13207	-13135	MG	0.00	0.00	500.00
3630	-11348	-11414	-11415	-11349	MG	0.00	0.00	500.00
3630	-12539	-12619	-12620	-12550	MG	0.00	0.00	500.00
3630	-11563	-11633	-11634	-11564	MG	0.00	0.00	500.00
3630	-12693	-12764	-12765	-12694	MG	0.00	0.00	500.00
3630	-13210	-13276	-13277	-13211	MG	0.00	0.00	500.00
3630	-11218	-11284	-11285	-11219	MG	0.00	0.00	500.00
3630	-12835	-12905	-12906	-12836	MG	0.00	0.00	500.00
3630	-12697	-12768	-12769	-12698	MG	0.00	0.00	500.00
3630	-12768	-12838	-12839	-12769	MG	0.00	0.00	500.00
3630	-11704	-11770	-11771	-11705	MG	0.00	0.00	500.00
3630	-11087	-11153	-11154	-11088	MG	0.00	0.00	500.00
3630	-13069	-13139	-13140	-13070	MG	0.00	0.00	500.00
3630	-12620	-12694	-12695	-12621	MG	0.00	0.00	500.00
3630	-12694	-12765	-12766	-12695	MG	0.00	0.00	500.00
3630	-11357	-11423	-11424	-11358	MG	0.00	0.00	500.00
3630	-11077	-11142	-11143	-11078	MG	0.00	0.00	500.00
3630	-11423	-11493	-11494	-11424	MG	0.00	0.00	500.00
3630	-11629	-11701	-11702	-11630	MG	0.00	0.00	500.00
3630	-15272	-15271	-15337	-15338	MG	0.00	0.00	500.00
3630	-11212	-11278	-11279	-11213	MG	0.00	0.00	500.00
3630	-11703	-11769	-11770	-11704	MG	0.00	0.00	500.00
3630	-11351	-11417	-11418	-11352	MG	0.00	0.00	500.00
3630	-12541	-12622	-12623	-12542	MG	0.00	0.00	500.00
3630	-11152	-11218	-11219	-11153	MG	0.00	0.00	500.00
3630	-11417	-11487	-11488	-11418	MG	0.00	0.00	500.00
3630	-15667	-15666	-15732	-15733	MG	0.00	0.00	500.00
3630	-12837	-12907	-12908	-12838	MG	0.00	0.00	500.00
3630	-11700	-11766	-11767	-11701	MG	0.00	0.00	500.00
3630	-11084	-11149	-11150	-11039	MG	0.00	0.00	500.00
3630	-11149	-11215	-11216	-11150	MG	0.00	0.00	500.00
3630	-14536	-14535	-14605	-14606	MG	0.00	0.00	500.00
3630	-13139	-13211	-13212	-13140	MG	0.00	0.00	500.00
3630	-12622	-12696	-12697	-12623	MG	0.00	0.00	500.00
3630	-11281	-11353	-11354	-11282	MG	0.00	0.00	500.00
3630	-11219	-11285	-11286	-11220	MG	0.00	0.00	500.00
3630	-11559	-11629	-11630	-11560	MG	0.00	0.00	500.00
3630	-12907	-12987	-12988	-12908	MG	0.00	0.00	500.00
3630	-14272	-14271	-14337	-14338	MG	0.00	0.00	500.00
3630	-11562	-11632	-11633	-11563	MG	0.00	0.00	500.00
3630	-11146	-11212	-11213	-11147	MG	0.00	0.00	500.00
3630	-11285	-11357	-11358	-11286	MG	0.00	0.00	500.00
3630	-13211	-13277	-13278	-13212	MG	0.00	0.00	500.00
3630	-14537	-14536	-14606	-14607	MG	0.00	0.00	500.00
3630	-15601	-15600	-15666	-15667	MG	0.00	0.00	500.00
3630	-15469	-15468	-15534	-15535	MG	0.00	0.00	500.00
3630	-14470	-14469	-14535	-14536	MG	0.00	0.00	500.00
3630	-11217	-11283	-11284	-11218	MG	0.00	0.00	500.00
3630	-11353	-11419	-11420	-11354	MG	0.00	0.00	500.00
3630	-11627	-11699	-11700	-11628	MG	0.00	0.00	500.00

**Elenco carichi elementi bidimensionali**

**Condizione di carico n. 6: Variabili impalc. (caso 2)**

**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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3584	-15772	-15838	-15837	-15771	MG	0.00	0.00	500.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	500.00
3584	-15178	-15245	-15244	-15177	MG	0.00	0.00	500.00
3584	-15245	-15311	-15310	-15244	MG	0.00	0.00	500.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	500.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	500.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	500.00
3584	-15044	-15113	-15112	-15043	MG	0.00	0.00	500.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	500.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	500.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	500.00
3584	-14647	-14713	-14712	-14646	MG	0.00	0.00	500.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	500.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	500.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	500.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	500.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	500.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	500.00
3584	-14179	-14245	-14244	-14178	MG	0.00	0.00	500.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	500.00
3584	-14978	-15044	-15043	-14977	MG	0.00	0.00	500.00
3584	-13441	-13511	-13510	-13440	MG	0.00	0.00	500.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	500.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	500.00
3584	-16302	-16368	-16367	-16301	MG	0.00	0.00	500.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	500.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	500.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	500.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	500.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	500.00
3584	-15905	-15971	-15970	-15904	MG	0.00	0.00	500.00
3584	-13775	-13841	-13840	-13774	MG	0.00	0.00	500.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	500.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	500.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	500.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	500.00
3584	-14714	-14780	-14779	-14713	MG	0.00	0.00	500.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	500.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	500.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	500.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	500.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	500.00
3584	-12863	-12941	-12940	-12862	MG	0.00	0.00	500.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	500.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	500.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	500.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	500.00
3584	-14911	-14977	-14976	-14910	MG	0.00	0.00	500.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	500.00
3584	-14846	-14912	-14911	-14845	MG	0.00	0.00	500.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	500.00
3584	-14845	-14911	-14910	-14844	MG	0.00	0.00	500.00
3584	-15043	-15112	-15111	-15042	MG	0.00	0.00	500.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	500.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	500.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	500.00
3584	-14245	-14311	-14310	-14244	MG	0.00	0.00	500.00
3584	-15244	-15310	-15309	-15243	MG	0.00	0.00	500.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	500.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	500.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	500.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	500.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	500.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	500.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	500.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	500.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	500.00
3584	-14580	-14648	-14647	-14579	MG	0.00	0.00	500.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	500.00
3584	-15839	-15906	-15905	-15838	MG	0.00	0.00	500.00
3584	-11933	-12058	-12051	-11932	MG	0.00	0.00	500.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	500.00
3584	-16235	-16301	-16300	-16234	MG	0.00	0.00	500.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	500.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	500.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	500.00
3584	-15640	-15706	-15705	-15639	MG	0.00	0.00	500.00
3584	-14780	-14846	-14845	-14779	MG	0.00	0.00	500.00
3584	-11792	-11854	-11853	-11791	MG	0.00	0.00	500.00

3584	-11854	-11932	-11991	-11853	MG	0.00	0.00	500.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	500.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	500.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	500.00
3584	-14114	-14180	-14179	-14113	MG	0.00	0.00	500.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	500.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	500.00
3584	-14312	-14378	-14377	-14311	MG	0.00	0.00	500.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	500.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	500.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	500.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	500.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	500.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	500.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	500.00
3584	-15177	-15244	-15243	-15176	MG	0.00	0.00	500.00
3584	-14509	-14579	-14578	-14508	MG	0.00	0.00	500.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	500.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	500.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	500.00
3584	-16236	-16302	-16301	-16235	MG	0.00	0.00	500.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	500.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	500.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	500.00
3584	-12348	-12414	-12413	-12347	MG	0.00	0.00	500.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	500.00
3584	-10965	-11053	-11036	-10964	MG	0.00	0.00	500.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	500.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	500.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	500.00
3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	500.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	500.00
3584	-12349	-12415	-12414	-12348	MG	0.00	0.00	500.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	500.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	500.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	500.00
3584	-12793	-12863	-12862	-12792	MG	0.00	0.00	500.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	500.00
3584	-15977	-15976	-15910	-15911	MG	0.00	0.00	500.00
3584	-13511	-13577	-13576	-13510	MG	0.00	0.00	500.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	500.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	500.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	500.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	500.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	500.00
3584	-13909	-13979	-13978	-13908	MG	0.00	0.00	500.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	500.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	500.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	500.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	500.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	500.00
3584	-11656	-11727	-11726	-11655	MG	0.00	0.00	500.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	500.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	500.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	500.00
3584	-11240	-11312	-11311	-11239	MG	0.00	0.00	500.00
3584	-10403	-10472	-10471	-10402	MG	0.00	0.00	500.00
3584	-10472	-10616	-10538	-10471	MG	0.00	0.00	500.00
3584	-11448	-11518	-11517	-11447	MG	0.00	0.00	500.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	500.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	500.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	500.00
3584	-10902	-10965	-10964	-10901	MG	0.00	0.00	500.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	500.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	500.00
3584	-10962	-10963	-10900	-10899	MG	0.00	0.00	500.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	500.00
3584	-16040	-16039	-15973	-15974	MG	0.00	0.00	500.00
3584	-12209	-12281	-12280	-12208	MG	0.00	0.00	500.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	500.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	500.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	500.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	500.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	500.00
3584	-10836	-10835	-10770	-10771	MG	0.00	0.00	500.00
3584	-15174	-15175	-15110	-15109	MG	0.00	0.00	500.00
3584	-15040	-15041	-14975	-14974	MG	0.00	0.00	500.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	500.00
3584	-14776	-14777	-14711	-14710	MG	0.00	0.00	500.00

3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	500.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	500.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	500.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	500.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	500.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	500.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	500.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	500.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	500.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	500.00
3584	-16310	-16309	-16243	-16244	MG	0.00	0.00	500.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	500.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	500.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	500.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	500.00
3584	-16049	-16048	-15982	-15983	MG	0.00	0.00	500.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	500.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	500.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	500.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	500.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	500.00
3584	-12411	-12412	-12346	-12345	MG	0.00	0.00	500.00
3584	-16566	-16599	-16598	-16565	MG	0.00	0.00	500.00
3584	-11053	-11108	-11107	-11036	MG	0.00	0.00	500.00
3584	-11990	-11959	-11852	-11895	MG	0.00	0.00	500.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	500.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	500.00
3584	-12806	-12805	-12735	-12736	MG	0.00	0.00	500.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	500.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	500.00
3584	-16433	-16499	-16498	-16432	MG	0.00	0.00	500.00
3584	-16181	-16180	-16114	-16115	MG	0.00	0.00	500.00
3584	-12801	-12800	-12730	-12731	MG	0.00	0.00	500.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	500.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	500.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	500.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	500.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	500.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	500.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	500.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	500.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	500.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	500.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	500.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	500.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	500.00
3584	-12728	-12727	-12656	-12657	MG	0.00	0.00	500.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	500.00
3584	-13774	-13840	-13839	-13773	MG	0.00	0.00	500.00
3584	-13840	-13908	-13907	-13839	MG	0.00	0.00	500.00
3584	-11657	-11656	-11589	-11590	MG	0.00	0.00	500.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	500.00
3584	-12663	-12662	-12588	-12589	MG	0.00	0.00	500.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	500.00
3584	-15443	-15509	-15508	-15442	MG	0.00	0.00	500.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	500.00
3584	-16500	-16566	-16565	-16499	MG	0.00	0.00	500.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	500.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	500.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	500.00
3584	-12655	-12654	-12580	-12581	MG	0.00	0.00	500.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	500.00
3584	-10669	-10653	-10545	-10564	MG	0.00	0.00	500.00
3584	-10469	-10470	-10401	-10400	MG	0.00	0.00	500.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	500.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	500.00
3584	-12282	-12281	-12209	-12210	MG	0.00	0.00	500.00
3584	-12210	-12209	-12182	-12183	MG	0.00	0.00	500.00
3584	-12183	-12182	-12058	-12032	MG	0.00	0.00	500.00
3584	-12032	-12058	-11933	-11960	MG	0.00	0.00	500.00
3584	-11960	-11933	-11855	-11856	MG	0.00	0.00	500.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	500.00
3584	-12581	-12580	-12496	-12497	MG	0.00	0.00	500.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	500.00
3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	500.00
3584	-16496	-16497	-16431	-16430	MG	0.00	0.00	500.00
3584	-16364	-16365	-16299	-16298	MG	0.00	0.00	500.00
3584	-16232	-16233	-16167	-16166	MG	0.00	0.00	500.00
3584	-16100	-16101	-16035	-16034	MG	0.00	0.00	500.00

3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	500.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	500.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	500.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	500.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	500.00
3584	-12418	-12417	-12351	-12352	MG	0.00	0.00	500.00
3584	-12352	-12351	-12283	-12284	MG	0.00	0.00	500.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	500.00
3584	-12212	-12211	-12106	-12151	MG	0.00	0.00	500.00
3584	-12151	-12106	-12033	-12088	MG	0.00	0.00	500.00
3584	-12088	-12033	-11934	-11935	MG	0.00	0.00	500.00
3584	-11935	-11934	-11896	-11857	MG	0.00	0.00	500.00
3584	-11857	-11896	-11795	-11796	MG	0.00	0.00	500.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	500.00
3584	-12499	-12498	-12418	-12419	MG	0.00	0.00	500.00
3584	-10824	-10902	-10901	-10823	MG	0.00	0.00	500.00
3584	-12353	-12352	-12284	-12285	MG	0.00	0.00	500.00
3584	-12285	-12284	-12212	-12213	MG	0.00	0.00	500.00
3584	-12213	-12212	-12151	-12107	MG	0.00	0.00	500.00
3584	-12107	-12151	-12088	-12089	MG	0.00	0.00	500.00
3584	-12089	-12088	-11935	-11961	MG	0.00	0.00	500.00
3584	-11961	-11935	-11857	-11897	MG	0.00	0.00	500.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	500.00
3584	-12584	-12583	-12499	-12500	MG	0.00	0.00	500.00
3584	-12500	-12499	-12419	-12420	MG	0.00	0.00	500.00
3584	-12420	-12419	-12353	-12354	MG	0.00	0.00	500.00
3584	-12354	-12353	-12285	-12286	MG	0.00	0.00	500.00
3584	-12286	-12285	-12213	-12214	MG	0.00	0.00	500.00
3584	-12214	-12213	-12107	-12152	MG	0.00	0.00	500.00
3584	-12152	-12107	-12089	-12090	MG	0.00	0.00	500.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	500.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	500.00
3584	-11858	-11897	-11797	-11798	MG	0.00	0.00	500.00
3584	-12585	-12584	-12500	-12501	MG	0.00	0.00	500.00
3584	-12501	-12500	-12420	-12421	MG	0.00	0.00	500.00
3584	-12421	-12420	-12354	-12355	MG	0.00	0.00	500.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	500.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	500.00
3584	-12215	-12214	-12152	-12118	MG	0.00	0.00	500.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	500.00
3584	-13440	-13510	-13509	-13439	MG	0.00	0.00	500.00
3584	-11936	-11962	-11858	-11871	MG	0.00	0.00	500.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	500.00
3584	-12727	-12726	-12655	-12656	MG	0.00	0.00	500.00
3584	-12502	-12501	-12421	-12422	MG	0.00	0.00	500.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	500.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	500.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	500.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	500.00
3584	-11378	-11448	-11447	-11377	MG	0.00	0.00	500.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	500.00
3584	-15835	-15836	-15770	-15769	MG	0.00	0.00	500.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	500.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	500.00
3584	-15439	-15440	-15374	-15373	MG	0.00	0.00	500.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	500.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	500.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	500.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	500.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	500.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	500.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	500.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	500.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	500.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	500.00
3584	-14644	-14645	-14577	-14576	MG	0.00	0.00	500.00
3584	-15307	-15308	-15242	-15241	MG	0.00	0.00	500.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	500.00
3584	-14242	-14243	-14177	-14176	MG	0.00	0.00	500.00
3584	-14908	-14909	-14843	-14842	MG	0.00	0.00	500.00
3584	-11789	-11790	-11724	-11723	MG	0.00	0.00	500.00
3584	-11652	-11653	-11586	-11585	MG	0.00	0.00	500.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	500.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	500.00
3584	-11237	-11238	-11172	-11171	MG	0.00	0.00	500.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	500.00
3584	-13161	-13162	-13094	-13093	MG	0.00	0.00	500.00
3584	-13021	-13022	-12939	-12938	MG	0.00	0.00	500.00
3584	-12860	-12861	-12791	-12790	MG	0.00	0.00	500.00

3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	500.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	500.00
3584	-13975	-13976	-13906	-13905	MG	0.00	0.00	500.00
3584	-13837	-13838	-13772	-13771	MG	0.00	0.00	500.00
3584	-13705	-13706	-13640	-13639	MG	0.00	0.00	500.00
3584	-13573	-13574	-13508	-13507	MG	0.00	0.00	500.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	500.00
3584	-11732	-11731	-11659	-11671	MG	0.00	0.00	500.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	500.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	500.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	500.00
3584	-12419	-12418	-12352	-12353	MG	0.00	0.00	500.00
3584	-12575	-12576	-12493	-12492	MG	0.00	0.00	500.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	500.00
3584	-12277	-12278	-12206	-12205	MG	0.00	0.00	500.00
3584	-12105	-12168	-12017	-12086	MG	0.00	0.00	500.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	500.00
3584	-16103	-16169	-16168	-16102	MG	0.00	0.00	500.00
3584	-12865	-12864	-12794	-12795	MG	0.00	0.00	500.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	500.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	500.00
3584	-12804	-12803	-12733	-12734	MG	0.00	0.00	500.00
3584	-12803	-12802	-12732	-12733	MG	0.00	0.00	500.00
3584	-12802	-12801	-12731	-12732	MG	0.00	0.00	500.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	500.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	500.00
3584	-10967	-10966	-10890	-10903	MG	0.00	0.00	500.00
3584	-12941	-13024	-13023	-12940	MG	0.00	0.00	500.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	500.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	500.00
3584	-10672	-10671	-10576	-10565	MG	0.00	0.00	500.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	500.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	500.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	500.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	500.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	500.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	500.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	500.00
3584	-11519	-11589	-11588	-11518	MG	0.00	0.00	500.00
3584	-11589	-11656	-11655	-11588	MG	0.00	0.00	500.00
3584	-10673	-10672	-10565	-10577	MG	0.00	0.00	500.00
3584	-10577	-10565	-10474	-10475	MG	0.00	0.00	500.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	500.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	500.00
3584	-11112	-11111	-11045	-11046	MG	0.00	0.00	500.00
3584	-11312	-11378	-11377	-11311	MG	0.00	0.00	500.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	500.00
3584	-10905	-10904	-10827	-10828	MG	0.00	0.00	500.00
3584	-11518	-11588	-11587	-11517	MG	0.00	0.00	500.00
3584	-15575	-15641	-15640	-15574	MG	0.00	0.00	500.00
3584	-10674	-10673	-10577	-10539	MG	0.00	0.00	500.00
3584	-11726	-11792	-11791	-11725	MG	0.00	0.00	500.00
3584	-11793	-11855	-11854	-11792	MG	0.00	0.00	500.00
3584	-11855	-11933	-11932	-11854	MG	0.00	0.00	500.00
3584	-11113	-11112	-11046	-11047	MG	0.00	0.00	500.00
3584	-15310	-15376	-15375	-15309	MG	0.00	0.00	500.00
3584	-12182	-12209	-12208	-12141	MG	0.00	0.00	500.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	500.00
3584	-10829	-10828	-10762	-10763	MG	0.00	0.00	500.00
3584	-10763	-10762	-10674	-10675	MG	0.00	0.00	500.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	500.00
3584	-12524	-12579	-12578	-12495	MG	0.00	0.00	500.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	500.00
3584	-10408	-10407	-10354	-10355	MG	0.00	0.00	500.00
3584	-11856	-11855	-11793	-11794	MG	0.00	0.00	500.00
3584	-11037	-11047	-10970	-10971	MG	0.00	0.00	500.00
3584	-12497	-12496	-12416	-12417	MG	0.00	0.00	500.00
3584	-16595	-16596	-16563	-16562	MG	0.00	0.00	500.00
3584	-10830	-10829	-10763	-10764	MG	0.00	0.00	500.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	500.00
3584	-12414	-12495	-12494	-12413	MG	0.00	0.00	500.00
3584	-12495	-12578	-12577	-12494	MG	0.00	0.00	500.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	500.00
3584	-10434	-10408	-10355	-10331	MG	0.00	0.00	500.00
3584	-11115	-11114	-11037	-11048	MG	0.00	0.00	500.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	500.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	500.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	500.00
3584	-10852	-10830	-10764	-10765	MG	0.00	0.00	500.00

3584	-12284	-12283	-12211	-12212	MG	0.00	0.00	500.00
3584	-10677	-10676	-10566	-10550	MG	0.00	0.00	500.00
3584	-16307	-16306	-16240	-16241	MG	0.00	0.00	500.00
3584	-10329	-10403	-10402	-10352	MG	0.00	0.00	500.00
3584	-10409	-10434	-10331	-10332	MG	0.00	0.00	500.00
3584	-16304	-16303	-16237	-16238	MG	0.00	0.00	500.00
3584	-12583	-12582	-12498	-12499	MG	0.00	0.00	500.00
3584	-10973	-10972	-10907	-10908	MG	0.00	0.00	500.00
3584	-16247	-16246	-16180	-16181	MG	0.00	0.00	500.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	500.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	500.00
3584	-16244	-16243	-16177	-16178	MG	0.00	0.00	500.00
3584	-10567	-10550	-10479	-10480	MG	0.00	0.00	500.00
3584	-10480	-10479	-10409	-10410	MG	0.00	0.00	500.00
3584	-16241	-16240	-16174	-16175	MG	0.00	0.00	500.00
3584	-11897	-11857	-11796	-11797	MG	0.00	0.00	500.00
3584	-11055	-11049	-10973	-10974	MG	0.00	0.00	500.00
3584	-16238	-16237	-16171	-16172	MG	0.00	0.00	500.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	500.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	500.00
3584	-10767	-10766	-10654	-10678	MG	0.00	0.00	500.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	500.00
3584	-10630	-10567	-10480	-10481	MG	0.00	0.00	500.00
3584	-16178	-16177	-16111	-16112	MG	0.00	0.00	500.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	500.00
3584	-11118	-11117	-11055	-11056	MG	0.00	0.00	500.00
3584	-16175	-16174	-16108	-16109	MG	0.00	0.00	500.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	500.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	500.00
3584	-16172	-16171	-16105	-16106	MG	0.00	0.00	500.00
3584	-10768	-10767	-10678	-10691	MG	0.00	0.00	500.00
3584	-10691	-10678	-10630	-10578	MG	0.00	0.00	500.00
3584	-16115	-16114	-16048	-16049	MG	0.00	0.00	500.00
3584	-11105	-11106	-11035	-11034	MG	0.00	0.00	500.00
3584	-10412	-10411	-10356	-10334	MG	0.00	0.00	500.00
3584	-16112	-16111	-16045	-16046	MG	0.00	0.00	500.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	500.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	500.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	500.00
3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	500.00
3584	-10769	-10768	-10691	-10692	MG	0.00	0.00	500.00
3584	-16106	-16105	-16039	-16040	MG	0.00	0.00	500.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	500.00
3584	-15968	-15969	-15903	-15902	MG	0.00	0.00	500.00
3584	-10413	-10412	-10334	-10335	MG	0.00	0.00	500.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	500.00
3584	-15571	-15572	-15506	-15505	MG	0.00	0.00	500.00
3584	-16046	-16045	-15979	-15980	MG	0.00	0.00	500.00
3584	-10917	-10910	-10834	-10835	MG	0.00	0.00	500.00
3584	-10835	-10834	-10769	-10770	MG	0.00	0.00	500.00
3584	-16043	-16042	-15976	-15977	MG	0.00	0.00	500.00
3584	-10821	-10822	-10756	-10755	MG	0.00	0.00	500.00
3584	-16041	-16040	-15974	-15975	MG	0.00	0.00	500.00
3584	-10484	-10483	-10413	-10414	MG	0.00	0.00	500.00
3584	-16039	-16038	-15972	-15973	MG	0.00	0.00	500.00
3584	-11121	-11120	-11058	-11059	MG	0.00	0.00	500.00
3584	-11059	-11058	-10977	-10978	MG	0.00	0.00	500.00
3584	-10978	-10977	-10917	-10911	MG	0.00	0.00	500.00
3584	-10911	-10917	-10835	-10836	MG	0.00	0.00	500.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	500.00
3584	-10771	-10770	-10679	-10680	MG	0.00	0.00	500.00
3584	-14912	-14978	-14977	-14911	MG	0.00	0.00	500.00
3584	-10580	-10568	-10484	-10485	MG	0.00	0.00	500.00
3584	-10485	-10484	-10414	-10415	MG	0.00	0.00	500.00
3584	-15113	-15178	-15177	-15112	MG	0.00	0.00	500.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	500.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	500.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	500.00
3584	-14713	-14779	-14778	-14712	MG	0.00	0.00	500.00
3584	-14779	-14845	-14844	-14778	MG	0.00	0.00	500.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	500.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	500.00
3584	-14977	-15043	-15042	-14976	MG	0.00	0.00	500.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	500.00
3584	-15112	-15177	-15176	-15111	MG	0.00	0.00	500.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	500.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	500.00
3584	-15972	-16038	-16037	-15971	MG	0.00	0.00	500.00
3584	-13437	-13438	-13366	-13365	MG	0.00	0.00	500.00



3584	-16104	-16170	-16169	-16103	MG	0.00	0.00	500.00
3584	-16170	-16236	-16235	-16169	MG	0.00	0.00	500.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	500.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	500.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	500.00
3584	-16434	-16500	-16499	-16433	MG	0.00	0.00	500.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	500.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	500.00
3584	-15971	-16037	-16036	-15970	MG	0.00	0.00	500.00
3584	-16037	-16103	-16102	-16036	MG	0.00	0.00	500.00
3584	-12866	-12865	-12795	-12796	MG	0.00	0.00	500.00
3584	-16169	-16235	-16234	-16168	MG	0.00	0.00	500.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	500.00
3584	-12805	-12804	-12734	-12735	MG	0.00	0.00	500.00
3584	-16367	-16433	-16432	-16366	MG	0.00	0.00	500.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	500.00
3584	-16499	-16565	-16564	-16498	MG	0.00	0.00	500.00
3584	-16565	-16598	-16597	-16564	MG	0.00	0.00	500.00
3584	-13302	-13369	-13368	-13301	MG	0.00	0.00	500.00
3584	-13369	-13441	-13440	-13368	MG	0.00	0.00	500.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	500.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	500.00
3584	-13577	-13643	-13642	-13576	MG	0.00	0.00	500.00
3584	-13643	-13709	-13708	-13642	MG	0.00	0.00	500.00
3584	-13709	-13775	-13774	-13708	MG	0.00	0.00	500.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	500.00
3584	-13841	-13909	-13908	-13840	MG	0.00	0.00	500.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	500.00
3584	-13301	-13368	-13367	-13300	MG	0.00	0.00	500.00
3584	-13368	-13440	-13439	-13367	MG	0.00	0.00	500.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	500.00
3584	-13510	-13576	-13575	-13509	MG	0.00	0.00	500.00
3584	-13576	-13642	-13641	-13575	MG	0.00	0.00	500.00
3584	-13642	-13708	-13707	-13641	MG	0.00	0.00	500.00
3584	-13708	-13774	-13773	-13707	MG	0.00	0.00	500.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	500.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	500.00
3584	-13908	-13978	-13977	-13907	MG	0.00	0.00	500.00
3584	-15311	-15377	-15376	-15310	MG	0.00	0.00	500.00
3584	-15377	-15443	-15442	-15376	MG	0.00	0.00	500.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	500.00
3584	-15509	-15575	-15574	-15508	MG	0.00	0.00	500.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	500.00
3584	-15641	-15707	-15706	-15640	MG	0.00	0.00	500.00
3584	-15707	-15773	-15772	-15706	MG	0.00	0.00	500.00
3584	-15773	-15839	-15838	-15772	MG	0.00	0.00	500.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	500.00
3584	-15906	-15972	-15971	-15905	MG	0.00	0.00	500.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	500.00
3584	-15376	-15442	-15441	-15375	MG	0.00	0.00	500.00
3584	-15442	-15508	-15507	-15441	MG	0.00	0.00	500.00
3584	-15508	-15574	-15573	-15507	MG	0.00	0.00	500.00
3584	-15574	-15640	-15639	-15573	MG	0.00	0.00	500.00
3584	-15825	-15892	-15891	-15824	MG	0.00	0.00	500.00
3584	-15706	-15772	-15771	-15705	MG	0.00	0.00	500.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	500.00
3584	-15838	-15905	-15904	-15837	MG	0.00	0.00	500.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	500.00
3584	-13979	-14069	-14045	-13978	MG	0.00	0.00	500.00
3584	-14069	-14114	-14113	-14045	MG	0.00	0.00	500.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	500.00
3584	-14180	-14246	-14245	-14179	MG	0.00	0.00	500.00
3584	-14246	-14312	-14311	-14245	MG	0.00	0.00	500.00
3584	-15824	-15891	-15890	-15823	MG	0.00	0.00	500.00
3584	-14378	-14444	-14443	-14377	MG	0.00	0.00	500.00
3584	-14444	-14510	-14509	-14443	MG	0.00	0.00	500.00
3584	-14510	-14580	-14579	-14509	MG	0.00	0.00	500.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	500.00
3584	-13978	-14045	-14044	-13977	MG	0.00	0.00	500.00
3584	-14045	-14113	-14112	-14044	MG	0.00	0.00	500.00
3584	-14113	-14179	-14178	-14112	MG	0.00	0.00	500.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	500.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	500.00
3584	-14311	-14377	-14376	-14310	MG	0.00	0.00	500.00
3584	-14377	-14443	-14442	-14376	MG	0.00	0.00	500.00
3584	-14443	-14509	-14508	-14442	MG	0.00	0.00	500.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	500.00
3584	-14579	-14647	-14646	-14578	MG	0.00	0.00	500.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	500.00

3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	500.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	500.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	500.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	500.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	500.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	500.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	500.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	500.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	500.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	500.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	500.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	500.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	500.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	500.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	500.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	500.00
3584	-12090	-12089	-11961	-11962	MG	0.00	0.00	500.00
3584	-11962	-11961	-11897	-11858	MG	0.00	0.00	500.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	500.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	500.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	500.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	500.00
3584	-12355	-12354	-12286	-12287	MG	0.00	0.00	500.00
3584	-12287	-12286	-12214	-12215	MG	0.00	0.00	500.00
3584	-16468	-16467	-16533	-16534	MG	0.00	0.00	500.00
3584	-12118	-12152	-12090	-12091	MG	0.00	0.00	500.00
3584	-12091	-12090	-11962	-11936	MG	0.00	0.00	500.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	500.00
3584	-11871	-11858	-11798	-11799	MG	0.00	0.00	500.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	500.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	500.00
3584	-16109	-16108	-16042	-16043	MG	0.00	0.00	500.00
3584	-10834	-10833	-10768	-10769	MG	0.00	0.00	500.00
3584	-16403	-16402	-16468	-16469	MG	0.00	0.00	500.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	500.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	500.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	500.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	500.00
3584	-15703	-15704	-15638	-15637	MG	0.00	0.00	500.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	500.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	500.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	500.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	500.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	500.00
3584	-16536	-16535	-16601	-16602	MG	0.00	0.00	500.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	500.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	500.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	500.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	500.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	500.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	500.00
3584	-14506	-14507	-14441	-14440	MG	0.00	0.00	500.00
3584	-14374	-14375	-14309	-14308	MG	0.00	0.00	500.00
3584	-16471	-16470	-16536	-16537	MG	0.00	0.00	500.00
3584	-14110	-14111	-14043	-14042	MG	0.00	0.00	500.00
3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	500.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	500.00
3584	-11515	-11516	-11446	-11445	MG	0.00	0.00	500.00
3584	-11375	-11376	-11310	-11309	MG	0.00	0.00	500.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	500.00
3584	-13298	-13299	-13230	-13229	MG	0.00	0.00	500.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	500.00
3584	-16406	-16405	-16471	-16472	MG	0.00	0.00	500.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	500.00
3584	-12720	-12721	-12650	-12649	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	500.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	500.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	500.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	500.00
3584	-16038	-16104	-16103	-16037	MG	0.00	0.00	500.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	500.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	500.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	500.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	500.00
3584	-16368	-16434	-16433	-16367	MG	0.00	0.00	500.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	500.00
3584	-12653	-12724	-12723	-12652	MG	0.00	0.00	500.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	500.00

3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	500.00
3584	-12864	-12942	-12941	-12863	MG	0.00	0.00	500.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	500.00
3584	-13025	-13095	-13125	-13024	MG	0.00	0.00	500.00
3584	-13095	-13164	-13163	-13125	MG	0.00	0.00	500.00
3584	-16301	-16367	-16366	-16300	MG	0.00	0.00	500.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	500.00
3584	-11966	-11993	-11874	-11875	MG	0.00	0.00	500.00
3584	-11875	-11874	-11804	-11805	MG	0.00	0.00	500.00
3584	-10470	-10471	-10402	-10401	MG	0.00	0.00	500.00
3584	-10400	-10401	-10328	-10327	MG	0.00	0.00	500.00
3584	-10401	-10402	-10352	-10328	MG	0.00	0.00	500.00
3584	-10653	-10670	-10538	-10545	MG	0.00	0.00	500.00
3584	-10564	-10545	-10470	-10469	MG	0.00	0.00	500.00
3584	-10545	-10538	-10471	-10470	MG	0.00	0.00	500.00
3584	-10822	-10823	-10757	-10756	MG	0.00	0.00	500.00
3584	-10755	-10756	-10653	-10669	MG	0.00	0.00	500.00
3584	-10756	-10757	-10670	-10653	MG	0.00	0.00	500.00
3584	-10963	-10964	-10901	-10900	MG	0.00	0.00	500.00
3584	-10899	-10900	-10822	-10821	MG	0.00	0.00	500.00
3584	-10900	-10901	-10823	-10822	MG	0.00	0.00	500.00
3584	-11106	-11107	-11036	-11035	MG	0.00	0.00	500.00
3584	-11034	-11035	-10963	-10962	MG	0.00	0.00	500.00
3584	-11035	-11036	-10964	-10963	MG	0.00	0.00	500.00
3584	-11238	-11239	-11173	-11172	MG	0.00	0.00	500.00
3584	-11171	-11172	-11106	-11105	MG	0.00	0.00	500.00
3584	-11172	-11173	-11107	-11106	MG	0.00	0.00	500.00
3584	-11376	-11377	-11311	-11310	MG	0.00	0.00	500.00
3584	-11309	-11310	-11238	-11237	MG	0.00	0.00	500.00
3584	-11310	-11311	-11239	-11238	MG	0.00	0.00	500.00
3584	-11516	-11517	-11447	-11446	MG	0.00	0.00	500.00
3584	-11445	-11446	-11376	-11375	MG	0.00	0.00	500.00
3584	-11446	-11447	-11377	-11376	MG	0.00	0.00	500.00
3584	-11653	-11654	-11587	-11586	MG	0.00	0.00	500.00
3584	-11585	-11586	-11516	-11515	MG	0.00	0.00	500.00
3584	-11586	-11587	-11517	-11516	MG	0.00	0.00	500.00
3584	-11790	-11791	-11725	-11724	MG	0.00	0.00	500.00
3584	-11723	-11724	-11653	-11652	MG	0.00	0.00	500.00
3584	-11724	-11725	-11654	-11653	MG	0.00	0.00	500.00
3584	-11959	-11991	-11853	-11852	MG	0.00	0.00	500.00
3584	-11895	-11852	-11790	-11789	MG	0.00	0.00	500.00
3584	-11852	-11853	-11791	-11790	MG	0.00	0.00	500.00
3584	-12168	-12169	-12087	-12017	MG	0.00	0.00	500.00
3584	-12086	-12017	-11959	-11990	MG	0.00	0.00	500.00
3584	-12017	-12087	-11991	-11959	MG	0.00	0.00	500.00
3584	-12278	-12279	-12207	-12206	MG	0.00	0.00	500.00
3584	-12205	-12206	-12168	-12105	MG	0.00	0.00	500.00
3584	-12206	-12207	-12169	-12168	MG	0.00	0.00	500.00
3584	-12412	-12413	-12347	-12346	MG	0.00	0.00	500.00
3584	-12345	-12346	-12278	-12277	MG	0.00	0.00	500.00
3584	-12346	-12347	-12279	-12278	MG	0.00	0.00	500.00
3584	-12576	-12577	-12494	-12493	MG	0.00	0.00	500.00
3584	-12492	-12493	-12412	-12411	MG	0.00	0.00	500.00
3584	-12493	-12494	-12413	-12412	MG	0.00	0.00	500.00
3584	-12721	-12722	-12651	-12650	MG	0.00	0.00	500.00
3584	-12649	-12650	-12576	-12575	MG	0.00	0.00	500.00
3584	-12650	-12651	-12577	-12576	MG	0.00	0.00	500.00
3584	-12861	-12862	-12792	-12791	MG	0.00	0.00	500.00
3584	-12790	-12791	-12721	-12720	MG	0.00	0.00	500.00
3584	-12791	-12792	-12722	-12721	MG	0.00	0.00	500.00
3584	-13022	-13023	-12940	-12939	MG	0.00	0.00	500.00
3584	-12938	-12939	-12861	-12860	MG	0.00	0.00	500.00
3584	-12939	-12940	-12862	-12861	MG	0.00	0.00	500.00
3584	-13162	-13172	-13081	-13094	MG	0.00	0.00	500.00
3584	-13093	-13094	-13022	-13021	MG	0.00	0.00	500.00
3584	-13094	-13081	-13023	-13022	MG	0.00	0.00	500.00
3584	-13299	-13300	-13231	-13230	MG	0.00	0.00	500.00
3584	-13229	-13230	-13162	-13161	MG	0.00	0.00	500.00
3584	-13230	-13231	-13172	-13162	MG	0.00	0.00	500.00
3584	-13438	-13439	-13367	-13366	MG	0.00	0.00	500.00
3584	-13365	-13366	-13299	-13298	MG	0.00	0.00	500.00
3584	-13366	-13367	-13300	-13299	MG	0.00	0.00	500.00
3584	-13574	-13575	-13509	-13508	MG	0.00	0.00	500.00
3584	-13507	-13508	-13438	-13437	MG	0.00	0.00	500.00
3584	-13508	-13509	-13439	-13438	MG	0.00	0.00	500.00
3584	-13706	-13707	-13641	-13640	MG	0.00	0.00	500.00
3584	-13639	-13640	-13574	-13573	MG	0.00	0.00	500.00
3584	-13640	-13641	-13575	-13574	MG	0.00	0.00	500.00
3584	-13838	-13839	-13773	-13772	MG	0.00	0.00	500.00

3584	-13771	-13772	-13706	-13705	MG	0.00	0.00	500.00
3584	-13772	-13773	-13707	-13706	MG	0.00	0.00	500.00
3584	-13976	-13977	-13907	-13906	MG	0.00	0.00	500.00
3584	-13905	-13906	-13838	-13837	MG	0.00	0.00	500.00
3584	-13906	-13907	-13839	-13838	MG	0.00	0.00	500.00
3584	-14111	-14112	-14044	-14043	MG	0.00	0.00	500.00
3584	-14042	-14043	-13976	-13975	MG	0.00	0.00	500.00
3584	-14043	-14044	-13977	-13976	MG	0.00	0.00	500.00
3584	-14243	-14244	-14178	-14177	MG	0.00	0.00	500.00
3584	-14176	-14177	-14111	-14110	MG	0.00	0.00	500.00
3584	-14177	-14178	-14112	-14111	MG	0.00	0.00	500.00
3584	-14375	-14376	-14310	-14309	MG	0.00	0.00	500.00
3584	-14308	-14309	-14243	-14242	MG	0.00	0.00	500.00
3584	-14309	-14310	-14244	-14243	MG	0.00	0.00	500.00
3584	-14507	-14508	-14442	-14441	MG	0.00	0.00	500.00
3584	-14440	-14441	-14375	-14374	MG	0.00	0.00	500.00
3584	-14441	-14442	-14376	-14375	MG	0.00	0.00	500.00
3584	-14645	-14646	-14578	-14577	MG	0.00	0.00	500.00
3584	-14576	-14577	-14507	-14506	MG	0.00	0.00	500.00
3584	-14577	-14578	-14508	-14507	MG	0.00	0.00	500.00
3584	-14777	-14778	-14712	-14711	MG	0.00	0.00	500.00
3584	-14710	-14711	-14645	-14644	MG	0.00	0.00	500.00
3584	-14711	-14712	-14646	-14645	MG	0.00	0.00	500.00
3584	-14909	-14910	-14844	-14843	MG	0.00	0.00	500.00
3584	-14842	-14843	-14777	-14776	MG	0.00	0.00	500.00
3584	-14843	-14844	-14778	-14777	MG	0.00	0.00	500.00
3584	-15041	-15042	-14976	-14975	MG	0.00	0.00	500.00
3584	-14974	-14975	-14909	-14908	MG	0.00	0.00	500.00
3584	-14975	-14976	-14910	-14909	MG	0.00	0.00	500.00
3584	-15175	-15176	-15111	-15110	MG	0.00	0.00	500.00
3584	-15109	-15110	-15041	-15040	MG	0.00	0.00	500.00
3584	-15110	-15111	-15042	-15041	MG	0.00	0.00	500.00
3584	-15308	-15309	-15243	-15242	MG	0.00	0.00	500.00
3584	-15241	-15242	-15175	-15174	MG	0.00	0.00	500.00
3584	-15242	-15243	-15176	-15175	MG	0.00	0.00	500.00
3584	-15440	-15441	-15375	-15374	MG	0.00	0.00	500.00
3584	-15373	-15374	-15308	-15307	MG	0.00	0.00	500.00
3584	-15374	-15375	-15309	-15308	MG	0.00	0.00	500.00
3584	-15572	-15573	-15507	-15506	MG	0.00	0.00	500.00
3584	-15505	-15506	-15440	-15439	MG	0.00	0.00	500.00
3584	-15506	-15507	-15441	-15440	MG	0.00	0.00	500.00
3584	-15704	-15705	-15639	-15638	MG	0.00	0.00	500.00
3584	-15637	-15638	-15572	-15571	MG	0.00	0.00	500.00
3584	-15638	-15639	-15573	-15572	MG	0.00	0.00	500.00
3584	-15836	-15837	-15771	-15770	MG	0.00	0.00	500.00
3584	-15769	-15770	-15704	-15703	MG	0.00	0.00	500.00
3584	-15770	-15771	-15705	-15704	MG	0.00	0.00	500.00
3584	-15969	-15970	-15904	-15903	MG	0.00	0.00	500.00
3584	-15902	-15903	-15836	-15835	MG	0.00	0.00	500.00
3584	-15903	-15904	-15837	-15836	MG	0.00	0.00	500.00
3584	-16101	-16102	-16036	-16035	MG	0.00	0.00	500.00
3584	-16034	-16035	-15969	-15968	MG	0.00	0.00	500.00
3584	-16035	-16036	-15970	-15969	MG	0.00	0.00	500.00
3584	-16233	-16234	-16168	-16167	MG	0.00	0.00	500.00
3584	-16166	-16167	-16101	-16100	MG	0.00	0.00	500.00
3584	-16167	-16168	-16102	-16101	MG	0.00	0.00	500.00
3584	-16365	-16366	-16300	-16299	MG	0.00	0.00	500.00
3584	-16298	-16299	-16233	-16232	MG	0.00	0.00	500.00
3584	-16299	-16300	-16234	-16233	MG	0.00	0.00	500.00
3584	-16497	-16498	-16432	-16431	MG	0.00	0.00	500.00
3584	-16430	-16431	-16365	-16364	MG	0.00	0.00	500.00
3584	-16431	-16432	-16366	-16365	MG	0.00	0.00	500.00
3584	-16596	-16597	-16564	-16563	MG	0.00	0.00	500.00
3584	-16562	-16563	-16497	-16496	MG	0.00	0.00	500.00
3584	-16563	-16564	-16498	-16497	MG	0.00	0.00	500.00
3584	-16464	-16465	-16531	-16530	MG	0.00	0.00	500.00
3584	-16529	-16530	-16596	-16595	MG	0.00	0.00	500.00
3584	-16530	-16531	-16597	-16596	MG	0.00	0.00	500.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	500.00
3584	-16397	-16398	-16464	-16463	MG	0.00	0.00	500.00
3584	-16398	-16399	-16465	-16464	MG	0.00	0.00	500.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	500.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	500.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	500.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	500.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	500.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	500.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	500.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	500.00

3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	500.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	500.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	500.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	500.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	500.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	500.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	500.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	500.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	500.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	500.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	500.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	500.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	500.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	500.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	500.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	500.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	500.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	500.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	500.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	500.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	500.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	500.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	500.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	500.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	500.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	500.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	500.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	500.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	500.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	500.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	500.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	500.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	500.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	500.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	500.00
3584	-11570	-11638	-11637	-11569	MG	0.00	0.00	500.00
3584	-11638	-11708	-11707	-11637	MG	0.00	0.00	500.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	500.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	500.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	500.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	500.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	500.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	500.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	500.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	500.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	500.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	500.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	500.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	500.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	500.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	500.00
3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	500.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	500.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	500.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	500.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	500.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	500.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	500.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	500.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	500.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	500.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	500.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	500.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	500.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	500.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	500.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	500.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	500.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	500.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	500.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	500.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	500.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	500.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	500.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	500.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	500.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	500.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	500.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	500.00

3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	500.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	500.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	500.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	500.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	500.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	500.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	500.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	500.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	500.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	500.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	500.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	500.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	500.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	500.00
3584	-12586	-12585	-12501	-12502	MG	0.00	0.00	500.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	500.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	500.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	500.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	500.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	500.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	500.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	500.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	500.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	500.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	500.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	500.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	500.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	500.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	500.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	500.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	500.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	500.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	500.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	500.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	500.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	500.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	500.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	500.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	500.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	500.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	500.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	500.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	500.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	500.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	500.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	500.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	500.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	500.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	500.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	500.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	500.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	500.00
3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	500.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	500.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	500.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	500.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	500.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	500.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	500.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	500.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	500.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	500.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	500.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	500.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	500.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	500.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	500.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	500.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	500.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	500.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	500.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	500.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	500.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	500.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	500.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	500.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	500.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	500.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	500.00

3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	500.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	500.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	500.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	500.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	500.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	500.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	500.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	500.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	500.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	500.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	500.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	500.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	500.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	500.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	500.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	500.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	500.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	500.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	500.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	500.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	500.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	500.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	500.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	500.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	500.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	500.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	500.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	500.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	500.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	500.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	500.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	500.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	500.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	500.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	500.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	500.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	500.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	500.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	500.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	500.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	500.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	500.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	500.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	500.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	500.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	500.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	500.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	500.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	500.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	500.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	500.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	500.00
3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	500.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	500.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	500.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	500.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	500.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	500.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	500.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	500.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	500.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	500.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	500.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	500.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	500.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	500.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	500.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	500.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	500.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	500.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	500.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	500.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	500.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	500.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	500.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	500.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	500.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	500.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	500.00

3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	500.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	500.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	500.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	500.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	500.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	500.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	500.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	500.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	500.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	500.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	500.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	500.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	500.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	500.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	500.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	500.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	500.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	500.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	500.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	500.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	500.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	500.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	500.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	500.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	500.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	500.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	500.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	500.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	500.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	500.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	500.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	500.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	500.00
3584	-15774	-15773	-15707	-15708	MG	0.00	0.00	500.00
3584	-15708	-15707	-15641	-15642	MG	0.00	0.00	500.00
3584	-15642	-15641	-15575	-15576	MG	0.00	0.00	500.00
3584	-15576	-15575	-15509	-15510	MG	0.00	0.00	500.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	500.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	500.00
3584	-15378	-15377	-15311	-15312	MG	0.00	0.00	500.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	500.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	500.00
3584	-15841	-15840	-15774	-15775	MG	0.00	0.00	500.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	500.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	500.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	500.00
3584	-15577	-15576	-15510	-15511	MG	0.00	0.00	500.00
3584	-15511	-15510	-15444	-15445	MG	0.00	0.00	500.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	500.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	500.00
3584	-15975	-15974	-15908	-15909	MG	0.00	0.00	500.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	500.00
3584	-15842	-15841	-15775	-15776	MG	0.00	0.00	500.00
3584	-15776	-15775	-15709	-15710	MG	0.00	0.00	500.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	500.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	500.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	500.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	500.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	500.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	500.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	500.00
3584	-15910	-15909	-15842	-15843	MG	0.00	0.00	500.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	500.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	500.00
3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	500.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	500.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	500.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	500.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	500.00
3584	-15381	-15380	-15314	-15315	MG	0.00	0.00	500.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	500.00
3584	-15911	-15910	-15843	-15844	MG	0.00	0.00	500.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	500.00
3584	-15778	-15777	-15711	-15712	MG	0.00	0.00	500.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	500.00
3584	-15646	-15645	-15579	-15580	MG	0.00	0.00	500.00
3584	-15580	-15579	-15513	-15514	MG	0.00	0.00	500.00
3584	-15514	-15513	-15447	-15448	MG	0.00	0.00	500.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	500.00



3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	500.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	500.00
3584	-15912	-15911	-15844	-15845	MG	0.00	0.00	500.00
3584	-15845	-15844	-15778	-15779	MG	0.00	0.00	500.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	500.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	500.00
3584	-15647	-15646	-15580	-15581	MG	0.00	0.00	500.00
3584	-15581	-15580	-15514	-15515	MG	0.00	0.00	500.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	500.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	500.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	500.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	500.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	500.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	500.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	500.00
3584	-15714	-15713	-15647	-15648	MG	0.00	0.00	500.00
3584	-15648	-15647	-15581	-15582	MG	0.00	0.00	500.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	500.00
3584	-15516	-15515	-15449	-15450	MG	0.00	0.00	500.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	500.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	500.00
3584	-15980	-15979	-15913	-15914	MG	0.00	0.00	500.00
3584	-15914	-15913	-15846	-15847	MG	0.00	0.00	500.00
3584	-15847	-15846	-15780	-15781	MG	0.00	0.00	500.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	500.00
3584	-15715	-15714	-15648	-15649	MG	0.00	0.00	500.00
3584	-15649	-15648	-15582	-15583	MG	0.00	0.00	500.00
3584	-15583	-15582	-15516	-15517	MG	0.00	0.00	500.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	500.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	500.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	500.00
3584	-15981	-15980	-15914	-15915	MG	0.00	0.00	500.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	500.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	500.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	500.00
3584	-15716	-15715	-15649	-15650	MG	0.00	0.00	500.00
3584	-15650	-15649	-15583	-15584	MG	0.00	0.00	500.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	500.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	500.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	500.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	500.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	500.00
3584	-15916	-15915	-15848	-15849	MG	0.00	0.00	500.00
3584	-15849	-15848	-15782	-15783	MG	0.00	0.00	500.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	500.00
3584	-15717	-15716	-15650	-15651	MG	0.00	0.00	500.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	500.00
3584	-15585	-15584	-15518	-15519	MG	0.00	0.00	500.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	500.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	500.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	500.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	500.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	500.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	500.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	500.00
3584	-15718	-15717	-15651	-15652	MG	0.00	0.00	500.00
3584	-15652	-15651	-15585	-15586	MG	0.00	0.00	500.00
3584	-15586	-15585	-15519	-15520	MG	0.00	0.00	500.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	500.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	500.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	500.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	500.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	500.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	500.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	500.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	500.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	500.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	500.00
3584	-15521	-15520	-15454	-15455	MG	0.00	0.00	500.00
3584	-15455	-15454	-15388	-15389	MG	0.00	0.00	500.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	500.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	500.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	500.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	500.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	500.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	500.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	500.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	500.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	500.00

3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	500.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	500.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	500.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	500.00
3584	-13843	-13842	-13776	-13777	MG	0.00	0.00	500.00
3584	-13777	-13776	-13710	-13711	MG	0.00	0.00	500.00
3584	-13711	-13710	-13644	-13645	MG	0.00	0.00	500.00
3584	-13645	-13644	-13578	-13579	MG	0.00	0.00	500.00
3584	-13579	-13578	-13512	-13513	MG	0.00	0.00	500.00
3584	-13513	-13512	-13442	-13443	MG	0.00	0.00	500.00
3584	-13443	-13442	-13370	-13371	MG	0.00	0.00	500.00
3584	-13371	-13370	-13303	-13304	MG	0.00	0.00	500.00
3584	-14648	-14714	-14713	-14647	MG	0.00	0.00	500.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	500.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	500.00
3584	-15973	-15972	-15906	-15907	MG	0.00	0.00	500.00
3584	-12579	-12653	-12652	-12578	MG	0.00	0.00	500.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	500.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	500.00
3584	-11794	-11793	-11727	-11728	MG	0.00	0.00	500.00
3584	-13444	-13443	-13371	-13372	MG	0.00	0.00	500.00
3584	-13372	-13371	-13304	-13305	MG	0.00	0.00	500.00
3584	-13983	-13982	-13912	-13913	MG	0.00	0.00	500.00
3584	-13913	-13912	-13844	-13845	MG	0.00	0.00	500.00
3584	-13845	-13844	-13778	-13779	MG	0.00	0.00	500.00
3584	-13779	-13778	-13712	-13713	MG	0.00	0.00	500.00
3584	-13713	-13712	-13646	-13647	MG	0.00	0.00	500.00
3584	-13647	-13646	-13580	-13581	MG	0.00	0.00	500.00
3584	-13581	-13580	-13514	-13515	MG	0.00	0.00	500.00
3584	-13515	-13514	-13444	-13445	MG	0.00	0.00	500.00
3584	-13445	-13444	-13372	-13373	MG	0.00	0.00	500.00
3584	-13373	-13372	-13305	-13306	MG	0.00	0.00	500.00
3584	-13984	-13983	-13913	-13914	MG	0.00	0.00	500.00
3584	-13914	-13913	-13845	-13846	MG	0.00	0.00	500.00
3584	-13846	-13845	-13779	-13780	MG	0.00	0.00	500.00
3584	-13780	-13779	-13713	-13714	MG	0.00	0.00	500.00
3584	-13714	-13713	-13647	-13648	MG	0.00	0.00	500.00
3584	-13648	-13647	-13581	-13582	MG	0.00	0.00	500.00
3584	-13582	-13581	-13515	-13516	MG	0.00	0.00	500.00
3584	-13516	-13515	-13445	-13446	MG	0.00	0.00	500.00
3584	-13446	-13445	-13373	-13374	MG	0.00	0.00	500.00
3584	-13374	-13373	-13306	-13307	MG	0.00	0.00	500.00
3584	-13985	-13984	-13914	-13915	MG	0.00	0.00	500.00
3584	-13915	-13914	-13846	-13847	MG	0.00	0.00	500.00
3584	-13847	-13846	-13780	-13781	MG	0.00	0.00	500.00
3584	-13781	-13780	-13714	-13715	MG	0.00	0.00	500.00
3584	-13715	-13714	-13648	-13649	MG	0.00	0.00	500.00
3584	-13649	-13648	-13582	-13583	MG	0.00	0.00	500.00
3584	-13583	-13582	-13516	-13517	MG	0.00	0.00	500.00
3584	-13517	-13516	-13446	-13447	MG	0.00	0.00	500.00
3584	-13447	-13446	-13374	-13375	MG	0.00	0.00	500.00
3584	-13375	-13374	-13307	-13308	MG	0.00	0.00	500.00
3584	-13986	-13985	-13915	-13916	MG	0.00	0.00	500.00
3584	-13916	-13915	-13847	-13848	MG	0.00	0.00	500.00
3584	-13848	-13847	-13781	-13782	MG	0.00	0.00	500.00
3584	-13782	-13781	-13715	-13716	MG	0.00	0.00	500.00
3584	-13716	-13715	-13649	-13650	MG	0.00	0.00	500.00
3584	-13650	-13649	-13583	-13584	MG	0.00	0.00	500.00
3584	-13584	-13583	-13517	-13518	MG	0.00	0.00	500.00
3584	-13518	-13517	-13447	-13448	MG	0.00	0.00	500.00
3584	-13448	-13447	-13375	-13376	MG	0.00	0.00	500.00
3584	-13376	-13375	-13308	-13309	MG	0.00	0.00	500.00
3584	-13987	-13986	-13916	-13917	MG	0.00	0.00	500.00
3584	-13917	-13916	-13848	-13849	MG	0.00	0.00	500.00
3584	-13849	-13848	-13782	-13783	MG	0.00	0.00	500.00
3584	-13783	-13782	-13716	-13717	MG	0.00	0.00	500.00
3584	-13717	-13716	-13650	-13651	MG	0.00	0.00	500.00
3584	-13651	-13650	-13584	-13585	MG	0.00	0.00	500.00
3584	-13585	-13584	-13518	-13519	MG	0.00	0.00	500.00
3584	-13519	-13518	-13448	-13449	MG	0.00	0.00	500.00
3584	-13449	-13448	-13376	-13377	MG	0.00	0.00	500.00
3584	-13377	-13376	-13309	-13310	MG	0.00	0.00	500.00
3584	-13988	-13987	-13917	-13918	MG	0.00	0.00	500.00
3584	-13918	-13917	-13849	-13850	MG	0.00	0.00	500.00
3584	-13850	-13849	-13783	-13784	MG	0.00	0.00	500.00
3584	-13784	-13783	-13717	-13718	MG	0.00	0.00	500.00
3584	-13718	-13717	-13651	-13652	MG	0.00	0.00	500.00
3584	-13652	-13651	-13585	-13586	MG	0.00	0.00	500.00
3584	-13586	-13585	-13519	-13520	MG	0.00	0.00	500.00

3584	-13520	-13519	-13449	-13450	MG	0.00	0.00	500.00
3584	-13450	-13449	-13377	-13378	MG	0.00	0.00	500.00
3584	-13378	-13377	-13310	-13311	MG	0.00	0.00	500.00
3584	-13989	-13988	-13918	-13919	MG	0.00	0.00	500.00
3584	-13919	-13918	-13850	-13851	MG	0.00	0.00	500.00
3584	-13851	-13850	-13784	-13785	MG	0.00	0.00	500.00
3584	-13785	-13784	-13718	-13719	MG	0.00	0.00	500.00
3584	-13719	-13718	-13652	-13653	MG	0.00	0.00	500.00
3584	-13653	-13652	-13586	-13587	MG	0.00	0.00	500.00
3584	-13587	-13586	-13520	-13521	MG	0.00	0.00	500.00
3584	-13521	-13520	-13450	-13451	MG	0.00	0.00	500.00
3584	-13451	-13450	-13378	-13379	MG	0.00	0.00	500.00
3584	-13379	-13378	-13311	-13312	MG	0.00	0.00	500.00
3584	-13990	-13989	-13919	-13920	MG	0.00	0.00	500.00
3584	-13920	-13919	-13851	-13852	MG	0.00	0.00	500.00
3584	-13852	-13851	-13785	-13786	MG	0.00	0.00	500.00
3584	-13786	-13785	-13719	-13720	MG	0.00	0.00	500.00
3584	-13720	-13719	-13653	-13654	MG	0.00	0.00	500.00
3584	-13654	-13653	-13587	-13588	MG	0.00	0.00	500.00
3584	-13588	-13587	-13521	-13522	MG	0.00	0.00	500.00
3584	-13522	-13521	-13451	-13452	MG	0.00	0.00	500.00
3584	-13452	-13451	-13379	-13380	MG	0.00	0.00	500.00
3584	-13380	-13379	-13312	-13313	MG	0.00	0.00	500.00
3584	-13991	-13990	-13920	-13921	MG	0.00	0.00	500.00
3584	-13921	-13920	-13852	-13853	MG	0.00	0.00	500.00
3584	-13853	-13852	-13786	-13787	MG	0.00	0.00	500.00
3584	-13787	-13786	-13720	-13721	MG	0.00	0.00	500.00
3584	-13721	-13720	-13654	-13655	MG	0.00	0.00	500.00
3584	-13655	-13654	-13588	-13589	MG	0.00	0.00	500.00
3584	-13589	-13588	-13522	-13523	MG	0.00	0.00	500.00
3584	-13523	-13522	-13452	-13453	MG	0.00	0.00	500.00
3584	-13453	-13452	-13380	-13381	MG	0.00	0.00	500.00
3584	-13381	-13380	-13313	-13314	MG	0.00	0.00	500.00
3584	-15312	-15311	-15245	-15246	MG	0.00	0.00	500.00
3584	-15246	-15245	-15178	-15179	MG	0.00	0.00	500.00
3584	-15179	-15178	-15113	-15114	MG	0.00	0.00	500.00
3584	-15114	-15113	-15044	-15045	MG	0.00	0.00	500.00
3584	-15045	-15044	-14978	-14979	MG	0.00	0.00	500.00
3584	-14979	-14978	-14912	-14913	MG	0.00	0.00	500.00
3584	-14913	-14912	-14846	-14847	MG	0.00	0.00	500.00
3584	-14847	-14846	-14780	-14781	MG	0.00	0.00	500.00
3584	-14781	-14780	-14714	-14715	MG	0.00	0.00	500.00
3584	-14715	-14714	-14648	-14649	MG	0.00	0.00	500.00
3584	-15313	-15312	-15246	-15247	MG	0.00	0.00	500.00
3584	-15247	-15246	-15179	-15180	MG	0.00	0.00	500.00
3584	-15180	-15179	-15114	-15115	MG	0.00	0.00	500.00
3584	-15115	-15114	-15045	-15046	MG	0.00	0.00	500.00
3584	-15046	-15045	-14979	-14980	MG	0.00	0.00	500.00
3584	-14980	-14979	-14913	-14914	MG	0.00	0.00	500.00
3584	-14914	-14913	-14847	-14848	MG	0.00	0.00	500.00
3584	-14848	-14847	-14781	-14782	MG	0.00	0.00	500.00
3584	-14782	-14781	-14715	-14716	MG	0.00	0.00	500.00
3584	-14716	-14715	-14649	-14650	MG	0.00	0.00	500.00
3584	-15314	-15313	-15247	-15248	MG	0.00	0.00	500.00
3584	-15248	-15247	-15180	-15181	MG	0.00	0.00	500.00
3584	-15181	-15180	-15115	-15116	MG	0.00	0.00	500.00
3584	-15116	-15115	-15046	-15047	MG	0.00	0.00	500.00
3584	-15047	-15046	-14980	-14981	MG	0.00	0.00	500.00
3584	-14981	-14980	-14914	-14915	MG	0.00	0.00	500.00
3584	-14915	-14914	-14848	-14849	MG	0.00	0.00	500.00
3584	-14849	-14848	-14782	-14783	MG	0.00	0.00	500.00
3584	-14783	-14782	-14716	-14717	MG	0.00	0.00	500.00
3584	-14717	-14716	-14650	-14651	MG	0.00	0.00	500.00
3584	-15315	-15314	-15248	-15249	MG	0.00	0.00	500.00
3584	-15249	-15248	-15181	-15182	MG	0.00	0.00	500.00
3584	-15182	-15181	-15116	-15117	MG	0.00	0.00	500.00
3584	-15117	-15116	-15047	-15048	MG	0.00	0.00	500.00
3584	-15048	-15047	-14981	-14982	MG	0.00	0.00	500.00
3584	-14982	-14981	-14915	-14916	MG	0.00	0.00	500.00
3584	-14916	-14915	-14849	-14850	MG	0.00	0.00	500.00
3584	-14850	-14849	-14783	-14784	MG	0.00	0.00	500.00
3584	-14784	-14783	-14717	-14718	MG	0.00	0.00	500.00
3584	-14718	-14717	-14651	-14652	MG	0.00	0.00	500.00
3584	-15316	-15315	-15249	-15250	MG	0.00	0.00	500.00
3584	-15250	-15249	-15182	-15183	MG	0.00	0.00	500.00
3584	-15183	-15182	-15117	-15118	MG	0.00	0.00	500.00
3584	-15118	-15117	-15048	-15049	MG	0.00	0.00	500.00
3584	-15049	-15048	-14982	-14983	MG	0.00	0.00	500.00
3584	-14983	-14982	-14916	-14917	MG	0.00	0.00	500.00

3584	-14917	-14916	-14850	-14851	MG	0.00	0.00	500.00
3584	-14851	-14850	-14784	-14785	MG	0.00	0.00	500.00
3584	-14785	-14784	-14718	-14719	MG	0.00	0.00	500.00
3584	-14719	-14718	-14652	-14653	MG	0.00	0.00	500.00
3584	-15317	-15316	-15250	-15251	MG	0.00	0.00	500.00
3584	-15251	-15250	-15183	-15184	MG	0.00	0.00	500.00
3584	-15184	-15183	-15118	-15133	MG	0.00	0.00	500.00
3584	-15133	-15118	-15049	-15050	MG	0.00	0.00	500.00
3584	-15050	-15049	-14983	-14984	MG	0.00	0.00	500.00
3584	-14984	-14983	-14917	-14918	MG	0.00	0.00	500.00
3584	-14918	-14917	-14851	-14852	MG	0.00	0.00	500.00
3584	-14852	-14851	-14785	-14786	MG	0.00	0.00	500.00
3584	-14786	-14785	-14719	-14720	MG	0.00	0.00	500.00
3584	-14720	-14719	-14653	-14654	MG	0.00	0.00	500.00
3584	-15318	-15317	-15251	-15252	MG	0.00	0.00	500.00
3584	-15252	-15251	-15184	-15185	MG	0.00	0.00	500.00
3584	-15185	-15184	-15133	-15119	MG	0.00	0.00	500.00
3584	-15119	-15133	-15050	-15051	MG	0.00	0.00	500.00
3584	-15051	-15050	-14984	-14985	MG	0.00	0.00	500.00
3584	-14985	-14984	-14918	-14919	MG	0.00	0.00	500.00
3584	-14919	-14918	-14852	-14853	MG	0.00	0.00	500.00
3584	-14853	-14852	-14786	-14787	MG	0.00	0.00	500.00
3584	-14787	-14786	-14720	-14721	MG	0.00	0.00	500.00
3584	-14721	-14720	-14654	-14655	MG	0.00	0.00	500.00
3584	-15319	-15318	-15252	-15253	MG	0.00	0.00	500.00
3584	-15253	-15252	-15185	-15186	MG	0.00	0.00	500.00
3584	-15186	-15185	-15119	-15120	MG	0.00	0.00	500.00
3584	-15120	-15119	-15051	-15052	MG	0.00	0.00	500.00
3584	-15052	-15051	-14985	-14986	MG	0.00	0.00	500.00
3584	-14986	-14985	-14919	-14920	MG	0.00	0.00	500.00
3584	-14920	-14919	-14853	-14854	MG	0.00	0.00	500.00
3584	-14854	-14853	-14787	-14788	MG	0.00	0.00	500.00
3584	-14788	-14787	-14721	-14722	MG	0.00	0.00	500.00
3584	-14722	-14721	-14655	-14656	MG	0.00	0.00	500.00
3584	-15320	-15319	-15253	-15254	MG	0.00	0.00	500.00
3584	-15254	-15253	-15186	-15187	MG	0.00	0.00	500.00
3584	-15187	-15186	-15120	-15095	MG	0.00	0.00	500.00
3584	-15095	-15120	-15052	-15053	MG	0.00	0.00	500.00
3584	-15053	-15052	-14986	-14987	MG	0.00	0.00	500.00
3584	-14987	-14986	-14920	-14921	MG	0.00	0.00	500.00
3584	-14921	-14920	-14854	-14855	MG	0.00	0.00	500.00
3584	-14855	-14854	-14788	-14789	MG	0.00	0.00	500.00
3584	-14789	-14788	-14722	-14723	MG	0.00	0.00	500.00
3584	-14723	-14722	-14656	-14657	MG	0.00	0.00	500.00
3584	-15321	-15320	-15254	-15255	MG	0.00	0.00	500.00
3584	-15255	-15254	-15187	-15188	MG	0.00	0.00	500.00
3584	-15188	-15187	-15095	-15134	MG	0.00	0.00	500.00
3584	-15134	-15095	-15053	-15054	MG	0.00	0.00	500.00
3584	-15054	-15053	-14987	-14988	MG	0.00	0.00	500.00
3584	-14988	-14987	-14921	-14922	MG	0.00	0.00	500.00
3584	-14922	-14921	-14855	-14856	MG	0.00	0.00	500.00
3584	-14856	-14855	-14789	-14790	MG	0.00	0.00	500.00
3584	-14790	-14789	-14723	-14724	MG	0.00	0.00	500.00
3584	-14724	-14723	-14657	-14658	MG	0.00	0.00	500.00
3584	-12800	-12799	-12729	-12730	MG	0.00	0.00	500.00
3584	-16463	-16464	-16530	-16529	MG	0.00	0.00	500.00
3584	-12798	-12797	-12727	-12728	MG	0.00	0.00	500.00
3584	-12797	-12796	-12726	-12727	MG	0.00	0.00	500.00
3584	-12796	-12795	-12725	-12726	MG	0.00	0.00	500.00
3584	-12795	-12794	-12724	-12725	MG	0.00	0.00	500.00
3584	-12736	-12735	-12664	-12665	MG	0.00	0.00	500.00
3584	-12735	-12734	-12663	-12664	MG	0.00	0.00	500.00
3584	-12734	-12733	-12662	-12663	MG	0.00	0.00	500.00
3584	-12733	-12732	-12661	-12662	MG	0.00	0.00	500.00
3584	-12732	-12731	-12660	-12661	MG	0.00	0.00	500.00
3584	-12731	-12730	-12659	-12660	MG	0.00	0.00	500.00
3584	-12730	-12729	-12658	-12659	MG	0.00	0.00	500.00
3584	-12729	-12728	-12657	-12658	MG	0.00	0.00	500.00
3584	-15056	-15055	-14989	-14990	MG	0.00	0.00	500.00
3584	-14990	-14989	-14923	-14924	MG	0.00	0.00	500.00
3584	-12726	-12725	-12654	-12655	MG	0.00	0.00	500.00
3584	-12725	-12724	-12653	-12654	MG	0.00	0.00	500.00
3584	-12665	-12664	-12590	-12591	MG	0.00	0.00	500.00
3584	-12664	-12663	-12589	-12590	MG	0.00	0.00	500.00
3584	-14649	-14648	-14580	-14581	MG	0.00	0.00	500.00
3584	-12662	-12661	-12587	-12588	MG	0.00	0.00	500.00
3584	-12661	-12660	-12586	-12587	MG	0.00	0.00	500.00
3584	-12660	-12659	-12585	-12586	MG	0.00	0.00	500.00
3584	-12659	-12658	-12584	-12585	MG	0.00	0.00	500.00

3584	-12658	-12657	-12583	-12584	MG	0.00	0.00	500.00
3584	-12657	-12656	-12582	-12583	MG	0.00	0.00	500.00
3584	-12656	-12655	-12581	-12582	MG	0.00	0.00	500.00
3584	-14115	-14114	-14069	-14046	MG	0.00	0.00	500.00
3584	-12654	-12653	-12579	-12580	MG	0.00	0.00	500.00
3584	-12580	-12579	-12524	-12496	MG	0.00	0.00	500.00
3584	-12496	-12524	-12415	-12416	MG	0.00	0.00	500.00
3584	-12416	-12415	-12349	-12350	MG	0.00	0.00	500.00
3584	-12350	-12349	-12281	-12282	MG	0.00	0.00	500.00
3584	-14380	-14379	-14313	-14314	MG	0.00	0.00	500.00
3584	-14314	-14313	-14247	-14248	MG	0.00	0.00	500.00
3584	-14248	-14247	-14181	-14182	MG	0.00	0.00	500.00
3584	-14182	-14181	-14115	-14116	MG	0.00	0.00	500.00
3584	-14116	-14115	-14046	-14093	MG	0.00	0.00	500.00
3584	-14093	-14046	-13980	-13981	MG	0.00	0.00	500.00
3584	-14651	-14650	-14582	-14583	MG	0.00	0.00	500.00
3584	-14583	-14582	-14512	-14513	MG	0.00	0.00	500.00
3584	-14513	-14512	-14446	-14447	MG	0.00	0.00	500.00
3584	-14447	-14446	-14380	-14381	MG	0.00	0.00	500.00
3584	-14381	-14380	-14314	-14315	MG	0.00	0.00	500.00
3584	-14315	-14314	-14248	-14249	MG	0.00	0.00	500.00
3584	-14249	-14248	-14182	-14183	MG	0.00	0.00	500.00
3584	-14183	-14182	-14116	-14117	MG	0.00	0.00	500.00
3584	-14117	-14116	-14093	-14047	MG	0.00	0.00	500.00
3584	-14047	-14093	-13981	-13982	MG	0.00	0.00	500.00
3584	-14652	-14651	-14583	-14584	MG	0.00	0.00	500.00
3584	-14584	-14583	-14513	-14514	MG	0.00	0.00	500.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	500.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	500.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	500.00
3584	-14316	-14315	-14249	-14250	MG	0.00	0.00	500.00
3584	-14250	-14249	-14183	-14184	MG	0.00	0.00	500.00
3584	-14184	-14183	-14117	-14118	MG	0.00	0.00	500.00
3584	-14118	-14117	-14047	-14048	MG	0.00	0.00	500.00
3584	-14048	-14047	-13982	-13983	MG	0.00	0.00	500.00
3584	-14653	-14652	-14584	-14585	MG	0.00	0.00	500.00
3584	-14585	-14584	-14514	-14515	MG	0.00	0.00	500.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	500.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	500.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	500.00
3584	-14317	-14316	-14250	-14251	MG	0.00	0.00	500.00
3584	-14251	-14250	-14184	-14185	MG	0.00	0.00	500.00
3584	-14185	-14184	-14118	-14119	MG	0.00	0.00	500.00
3584	-14119	-14118	-14048	-14049	MG	0.00	0.00	500.00
3584	-14049	-14048	-13983	-13984	MG	0.00	0.00	500.00
3584	-14654	-14653	-14585	-14586	MG	0.00	0.00	500.00
3584	-14586	-14585	-14515	-14516	MG	0.00	0.00	500.00
3584	-14516	-14515	-14449	-14450	MG	0.00	0.00	500.00
3584	-14450	-14449	-14383	-14384	MG	0.00	0.00	500.00
3584	-14384	-14383	-14317	-14318	MG	0.00	0.00	500.00
3584	-14318	-14317	-14251	-14252	MG	0.00	0.00	500.00
3584	-14252	-14251	-14185	-14186	MG	0.00	0.00	500.00
3584	-14186	-14185	-14119	-14120	MG	0.00	0.00	500.00
3584	-14120	-14119	-14049	-14050	MG	0.00	0.00	500.00
3584	-14050	-14049	-13984	-13985	MG	0.00	0.00	500.00
3584	-14655	-14654	-14586	-14587	MG	0.00	0.00	500.00
3584	-14587	-14586	-14516	-14517	MG	0.00	0.00	500.00
3584	-14517	-14516	-14450	-14451	MG	0.00	0.00	500.00
3584	-14451	-14450	-14384	-14385	MG	0.00	0.00	500.00
3584	-14385	-14384	-14318	-14319	MG	0.00	0.00	500.00
3584	-14319	-14318	-14252	-14253	MG	0.00	0.00	500.00
3584	-14253	-14252	-14186	-14187	MG	0.00	0.00	500.00
3584	-14187	-14186	-14120	-14121	MG	0.00	0.00	500.00
3584	-14121	-14120	-14050	-14051	MG	0.00	0.00	500.00
3584	-14051	-14050	-13985	-13986	MG	0.00	0.00	500.00
3584	-14656	-14655	-14587	-14588	MG	0.00	0.00	500.00
3584	-14588	-14587	-14517	-14518	MG	0.00	0.00	500.00
3584	-14518	-14517	-14451	-14452	MG	0.00	0.00	500.00
3584	-14452	-14451	-14385	-14386	MG	0.00	0.00	500.00
3584	-14386	-14385	-14319	-14320	MG	0.00	0.00	500.00
3584	-14320	-14319	-14253	-14254	MG	0.00	0.00	500.00
3584	-14254	-14253	-14187	-14188	MG	0.00	0.00	500.00
3584	-14188	-14187	-14121	-14122	MG	0.00	0.00	500.00
3584	-14122	-14121	-14051	-14052	MG	0.00	0.00	500.00
3584	-14052	-14051	-13986	-13987	MG	0.00	0.00	500.00
3584	-14657	-14656	-14588	-14589	MG	0.00	0.00	500.00
3584	-14589	-14588	-14518	-14519	MG	0.00	0.00	500.00
3584	-14519	-14518	-14452	-14453	MG	0.00	0.00	500.00
3584	-14453	-14452	-14386	-14387	MG	0.00	0.00	500.00

3584	-14387	-14386	-14320	-14321	MG	0.00	0.00	500.00
3584	-14321	-14320	-14254	-14255	MG	0.00	0.00	500.00
3584	-14255	-14254	-14188	-14189	MG	0.00	0.00	500.00
3584	-14189	-14188	-14122	-14123	MG	0.00	0.00	500.00
3584	-14123	-14122	-14052	-14053	MG	0.00	0.00	500.00
3584	-14053	-14052	-13987	-13988	MG	0.00	0.00	500.00
3584	-14658	-14657	-14589	-14590	MG	0.00	0.00	500.00
3584	-14590	-14589	-14519	-14520	MG	0.00	0.00	500.00
3584	-14520	-14519	-14453	-14454	MG	0.00	0.00	500.00
3584	-14454	-14453	-14387	-14388	MG	0.00	0.00	500.00
3584	-14388	-14387	-14321	-14322	MG	0.00	0.00	500.00
3584	-14322	-14321	-14255	-14256	MG	0.00	0.00	500.00
3584	-14256	-14255	-14189	-14190	MG	0.00	0.00	500.00
3584	-14190	-14189	-14123	-14124	MG	0.00	0.00	500.00
3584	-14124	-14123	-14053	-14054	MG	0.00	0.00	500.00
3584	-14054	-14053	-13988	-13989	MG	0.00	0.00	500.00
3584	-14659	-14658	-14590	-14591	MG	0.00	0.00	500.00
3584	-14591	-14590	-14520	-14521	MG	0.00	0.00	500.00
3584	-14521	-14520	-14454	-14455	MG	0.00	0.00	500.00
3584	-14455	-14454	-14388	-14389	MG	0.00	0.00	500.00
3584	-14389	-14388	-14322	-14323	MG	0.00	0.00	500.00
3584	-14323	-14322	-14256	-14257	MG	0.00	0.00	500.00
3584	-14257	-14256	-14190	-14191	MG	0.00	0.00	500.00
3584	-14191	-14190	-14124	-14125	MG	0.00	0.00	500.00
3584	-14125	-14124	-14054	-14055	MG	0.00	0.00	500.00
3584	-14055	-14054	-13989	-13990	MG	0.00	0.00	500.00
3584	-14660	-14659	-14591	-14592	MG	0.00	0.00	500.00
3584	-16400	-16399	-16465	-16466	MG	0.00	0.00	500.00
3584	-16466	-16465	-16531	-16532	MG	0.00	0.00	500.00
3584	-16532	-16531	-16597	-16598	MG	0.00	0.00	500.00
3584	-14390	-14389	-14323	-14324	MG	0.00	0.00	500.00
3584	-14324	-14323	-14257	-14258	MG	0.00	0.00	500.00
3584	-14258	-14257	-14191	-14192	MG	0.00	0.00	500.00
3584	-14192	-14191	-14125	-14126	MG	0.00	0.00	500.00
3584	-14126	-14125	-14055	-14056	MG	0.00	0.00	500.00
3584	-14056	-14055	-13990	-13991	MG	0.00	0.00	500.00
3584	-16611	-16610	-16577	-16578	MG	0.00	0.00	500.00
3584	-16401	-16400	-16466	-16467	MG	0.00	0.00	500.00
3584	-16467	-16466	-16532	-16533	MG	0.00	0.00	500.00
3584	-16533	-16532	-16598	-16599	MG	0.00	0.00	500.00
3584	-16607	-16606	-16573	-16574	MG	0.00	0.00	500.00
3584	-16606	-16605	-16572	-16573	MG	0.00	0.00	500.00
3584	-16605	-16604	-16571	-16572	MG	0.00	0.00	500.00
3584	-16604	-16603	-16570	-16571	MG	0.00	0.00	500.00
3584	-16603	-16602	-16569	-16570	MG	0.00	0.00	500.00
3584	-16602	-16601	-16568	-16569	MG	0.00	0.00	500.00
3584	-16601	-16600	-16567	-16568	MG	0.00	0.00	500.00
3584	-16600	-16599	-16566	-16567	MG	0.00	0.00	500.00
3584	-16578	-16577	-16511	-16512	MG	0.00	0.00	500.00
3584	-16577	-16576	-16510	-16511	MG	0.00	0.00	500.00
3584	-16576	-16575	-16509	-16510	MG	0.00	0.00	500.00
3584	-16575	-16574	-16508	-16509	MG	0.00	0.00	500.00
3584	-16574	-16573	-16507	-16508	MG	0.00	0.00	500.00
3584	-16573	-16572	-16506	-16507	MG	0.00	0.00	500.00
3584	-16572	-16571	-16505	-16506	MG	0.00	0.00	500.00
3584	-16571	-16570	-16504	-16505	MG	0.00	0.00	500.00
3584	-16570	-16569	-16503	-16504	MG	0.00	0.00	500.00
3584	-16569	-16568	-16502	-16503	MG	0.00	0.00	500.00
3584	-16568	-16567	-16501	-16502	MG	0.00	0.00	500.00
3584	-16567	-16566	-16500	-16501	MG	0.00	0.00	500.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	500.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	500.00
3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	500.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	500.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	500.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	500.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	500.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	500.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	500.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	500.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	500.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	500.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	500.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	500.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	500.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	500.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	500.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	500.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	500.00

3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	500.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	500.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	500.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	500.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	500.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	500.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	500.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	500.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	500.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	500.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	500.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	500.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	500.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	500.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	500.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	500.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	500.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	500.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	500.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	500.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	500.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	500.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	500.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	500.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	500.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	500.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	500.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	500.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	500.00
3584	-16248	-16247	-16181	-16182	MG	0.00	0.00	500.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	500.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	500.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	500.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	500.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	500.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	500.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	500.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	500.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	500.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	500.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	500.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	500.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	500.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	500.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	500.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	500.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	500.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	500.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	500.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	500.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	500.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	500.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	500.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	500.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	500.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	500.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	500.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	500.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	500.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	500.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	500.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	500.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	500.00
3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	500.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	500.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	500.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	500.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	500.00
3584	-14504	-14570	-14569	-14503	MG	0.00	0.00	500.00
3584	-14570	-14636	-14635	-14569	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	500.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	500.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	500.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	500.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	500.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	500.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	500.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	500.00

3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	500.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	500.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	500.00
3584	-15907	-15906	-15839	-15840	MG	0.00	0.00	500.00
3584	-10680	-10679	-10568	-10580	MG	0.00	0.00	500.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	500.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	500.00
3584	-10415	-10414	-10336	-10337	MG	0.00	0.00	500.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	500.00
3584	-15510	-15509	-15443	-15444	MG	0.00	0.00	500.00
3584	-15444	-15443	-15377	-15378	MG	0.00	0.00	500.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	500.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	500.00
3584	-15908	-15907	-15840	-15841	MG	0.00	0.00	500.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	500.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	500.00
3584	-15709	-15708	-15642	-15643	MG	0.00	0.00	500.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	500.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	500.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	500.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	500.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	500.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	500.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	500.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	500.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	500.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	500.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	500.00
3584	-15578	-15577	-15511	-15512	MG	0.00	0.00	500.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	500.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	500.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	500.00
3584	-15976	-15975	-15909	-15910	MG	0.00	0.00	500.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	500.00
3584	-15843	-15842	-15776	-15777	MG	0.00	0.00	500.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	500.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	500.00
3584	-15645	-15644	-15578	-15579	MG	0.00	0.00	500.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	500.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	500.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	500.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	500.00
3584	-15189	-15188	-15134	-15121	MG	0.00	0.00	500.00
3584	-15121	-15134	-15054	-15055	MG	0.00	0.00	500.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	500.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	500.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	500.00
3584	-14857	-14856	-14790	-14791	MG	0.00	0.00	500.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	500.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	500.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	500.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	500.00
3584	-15978	-15977	-15911	-15912	MG	0.00	0.00	500.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	500.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	500.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	500.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	500.00
3584	-14858	-14857	-14791	-14792	MG	0.00	0.00	500.00
3584	-14792	-14791	-14725	-14726	MG	0.00	0.00	500.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	500.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	500.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	500.00
3584	-15979	-15978	-15912	-15913	MG	0.00	0.00	500.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	500.00
3584	-15846	-15845	-15779	-15780	MG	0.00	0.00	500.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	500.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	500.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	500.00
3584	-15582	-15581	-15515	-15516	MG	0.00	0.00	500.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	500.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	500.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	500.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	500.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	500.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	500.00
3584	-15781	-15780	-15714	-15715	MG	0.00	0.00	500.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	500.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	500.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	500.00



3584	-15517	-15516	-15450	-15451	MG	0.00	0.00	500.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	500.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	500.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	500.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	500.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	500.00
3584	-15782	-15781	-15715	-15716	MG	0.00	0.00	500.00
3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	500.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	500.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	500.00
3584	-15518	-15517	-15451	-15452	MG	0.00	0.00	500.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	500.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	500.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	500.00
3584	-14448	-14447	-14381	-14382	MG	0.00	0.00	500.00
3584	-14382	-14381	-14315	-14316	MG	0.00	0.00	500.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	500.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	500.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	500.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	500.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	500.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	500.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	500.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	500.00
3584	-15917	-15916	-15849	-15850	MG	0.00	0.00	500.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	500.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	500.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	500.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	500.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	500.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	500.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	500.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	500.00
3584	-15984	-15983	-15917	-15918	MG	0.00	0.00	500.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	500.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	500.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	500.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	500.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	500.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	500.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	500.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	500.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	500.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	500.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	500.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	500.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	500.00
3584	-16534	-16533	-16599	-16600	MG	0.00	0.00	500.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	500.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	500.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	500.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	500.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	500.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	500.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	500.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	500.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	500.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	500.00
3584	-11450	-11449	-11379	-11380	MG	0.00	0.00	500.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	500.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	500.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	500.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	500.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	500.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	500.00
3584	-16404	-16403	-16469	-16470	MG	0.00	0.00	500.00
3584	-16470	-16469	-16535	-16536	MG	0.00	0.00	500.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	500.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	500.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	500.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	500.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	500.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	500.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	500.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	500.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	500.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	500.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	500.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	500.00

3584	-11382	-11381	-11315	-11316	MG	0.00	0.00	500.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	500.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	500.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	500.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	500.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	500.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	500.00
3584	-16472	-16471	-16537	-16538	MG	0.00	0.00	500.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	500.00
3584	-11453	-11452	-11382	-11383	MG	0.00	0.00	500.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	500.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	500.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	500.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	500.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	500.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	500.00
3584	-16407	-16406	-16472	-16473	MG	0.00	0.00	500.00
3584	-16473	-16472	-16538	-16539	MG	0.00	0.00	500.00
3584	-16539	-16538	-16604	-16605	MG	0.00	0.00	500.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	500.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	500.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	500.00
3584	-12724	-12794	-12793	-12723	MG	0.00	0.00	500.00
3584	-12794	-12864	-12863	-12793	MG	0.00	0.00	500.00
3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	500.00
3584	-12942	-13025	-13024	-12941	MG	0.00	0.00	500.00
3584	-16408	-16407	-16473	-16474	MG	0.00	0.00	500.00
3584	-16474	-16473	-16539	-16540	MG	0.00	0.00	500.00
3584	-13164	-13233	-13232	-13163	MG	0.00	0.00	500.00
3584	-13233	-13302	-13301	-13232	MG	0.00	0.00	500.00
3584	-12578	-12652	-12651	-12577	MG	0.00	0.00	500.00
3584	-12652	-12723	-12722	-12651	MG	0.00	0.00	500.00
3584	-12723	-12793	-12792	-12722	MG	0.00	0.00	500.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	500.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	500.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	500.00
3584	-13024	-13125	-13081	-13023	MG	0.00	0.00	500.00
3584	-13125	-13163	-13172	-13081	MG	0.00	0.00	500.00
3584	-13163	-13232	-13231	-13172	MG	0.00	0.00	500.00
3584	-13232	-13301	-13300	-13231	MG	0.00	0.00	500.00
3584	-11109	-11175	-11174	-11108	MG	0.00	0.00	500.00
3584	-11175	-11241	-11240	-11174	MG	0.00	0.00	500.00
3584	-11241	-11313	-11312	-11240	MG	0.00	0.00	500.00
3584	-11313	-11379	-11378	-11312	MG	0.00	0.00	500.00
3584	-11379	-11449	-11448	-11378	MG	0.00	0.00	500.00
3584	-11449	-11519	-11518	-11448	MG	0.00	0.00	500.00
3584	-16410	-16409	-16475	-16476	MG	0.00	0.00	500.00
3584	-16476	-16475	-16541	-16542	MG	0.00	0.00	500.00
3584	-16542	-16541	-16607	-16608	MG	0.00	0.00	500.00
3584	-11727	-11793	-11792	-11726	MG	0.00	0.00	500.00
3584	-11108	-11174	-11173	-11107	MG	0.00	0.00	500.00
3584	-11174	-11240	-11239	-11173	MG	0.00	0.00	500.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	500.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	500.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	500.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	500.00
3584	-16411	-16410	-16476	-16477	MG	0.00	0.00	500.00
3584	-11588	-11655	-11654	-11587	MG	0.00	0.00	500.00
3584	-11655	-11726	-11725	-11654	MG	0.00	0.00	500.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	500.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	500.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	500.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	500.00
3584	-12058	-12182	-12141	-12051	MG	0.00	0.00	500.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	500.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	500.00
3584	-12281	-12349	-12348	-12280	MG	0.00	0.00	500.00
3584	-16478	-16477	-16543	-16544	MG	0.00	0.00	500.00
3584	-12415	-12524	-12495	-12414	MG	0.00	0.00	500.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	500.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	500.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	500.00
3584	-11932	-12051	-12087	-11991	MG	0.00	0.00	500.00
3584	-12051	-12141	-12169	-12087	MG	0.00	0.00	500.00
3584	-12141	-12208	-12207	-12169	MG	0.00	0.00	500.00
3584	-12208	-12280	-12279	-12207	MG	0.00	0.00	500.00
3584	-12280	-12348	-12347	-12279	MG	0.00	0.00	500.00
3584	-16479	-16478	-16544	-16545	MG	0.00	0.00	500.00
3584	-16545	-16544	-16610	-16611	MG	0.00	0.00	500.00

3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	500.00
3584	3504	-10404	-10403	-10329	MG	0.00	0.00	500.00
3584	-10404	-10473	-10472	-10403	MG	0.00	0.00	500.00
3584	-10473	-10576	-10616	-10472	MG	0.00	0.00	500.00
3584	-10576	-10671	-10690	-10616	MG	0.00	0.00	500.00
3584	-10671	-10759	-10758	-10690	MG	0.00	0.00	500.00
3584	-10759	-10825	-10824	-10758	MG	0.00	0.00	500.00
3584	-10825	-10890	-10902	-10824	MG	0.00	0.00	500.00
3584	-10890	-10966	-10965	-10902	MG	0.00	0.00	500.00
3584	-10966	-11054	-11053	-10965	MG	0.00	0.00	500.00
3584	-11054	-11109	-11108	-11053	MG	0.00	0.00	500.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	500.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	500.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	500.00
3584	-10616	-10690	-10670	-10538	MG	0.00	0.00	500.00
3584	-10690	-10758	-10757	-10670	MG	0.00	0.00	500.00
3584	-10758	-10824	-10823	-10757	MG	0.00	0.00	500.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	500.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	500.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	500.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	500.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	500.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	500.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	500.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	500.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	500.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	500.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	500.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	500.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	500.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	500.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	500.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	500.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	500.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	500.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	500.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	500.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	500.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	500.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	500.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	500.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	500.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	500.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	500.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	500.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	500.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	500.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	500.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	500.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	500.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	500.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	500.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	500.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	500.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	500.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	500.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	500.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	500.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	500.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	500.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	500.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	500.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	500.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	500.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	500.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	500.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	500.00
3584	-13033	-13032	-12949	-12967	MG	0.00	0.00	500.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	500.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	500.00
3584	-13030	-13029	-12946	-12947	MG	0.00	0.00	500.00
3584	-13029	-13028	-12945	-12946	MG	0.00	0.00	500.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	500.00
3584	-13027	-13026	-12943	-12944	MG	0.00	0.00	500.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	500.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	500.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	500.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	500.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	500.00

3584	-12967	-12949	-12871	-12872	MG	0.00	0.00	500.00
3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	500.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	500.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	500.00
3584	-12946	-12945	-12867	-12868	MG	0.00	0.00	500.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	500.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	500.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	500.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	500.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	500.00
3584	-12874	-12873	-12803	-12804	MG	0.00	0.00	500.00
3584	-12873	-12872	-12802	-12803	MG	0.00	0.00	500.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	500.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	500.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	500.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	500.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	500.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	500.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	500.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	500.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	500.00
3584	-15777	-15776	-15710	-15711	MG	0.00	0.00	500.00
3584	-15711	-15710	-15644	-15645	MG	0.00	0.00	500.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	500.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	500.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	500.00
3584	-15322	-15321	-15255	-15256	MG	0.00	0.00	500.00
3584	-12799	-12798	-12728	-12729	MG	0.00	0.00	500.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	500.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	500.00
3584	-15055	-15054	-14988	-14989	MG	0.00	0.00	500.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	500.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	500.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	500.00
3584	-14791	-14790	-14724	-14725	MG	0.00	0.00	500.00
3584	-14725	-14724	-14658	-14659	MG	0.00	0.00	500.00
3584	-15323	-15322	-15256	-15257	MG	0.00	0.00	500.00
3584	-15257	-15256	-15189	-15190	MG	0.00	0.00	500.00
3584	-15190	-15189	-15121	-15122	MG	0.00	0.00	500.00
3584	-15122	-15121	-15055	-15056	MG	0.00	0.00	500.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	500.00
3584	-15779	-15778	-15712	-15713	MG	0.00	0.00	500.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	500.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	500.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	500.00
3584	-14726	-14725	-14659	-14660	MG	0.00	0.00	500.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	500.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	500.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	500.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	500.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	500.00
3584	-14313	-14312	-14246	-14247	MG	0.00	0.00	500.00
3584	-14247	-14246	-14180	-14181	MG	0.00	0.00	500.00
3584	-14181	-14180	-14114	-14115	MG	0.00	0.00	500.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	500.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	500.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	500.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	500.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	500.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	500.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	500.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	500.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	500.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	500.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	500.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	500.00
3584	-15451	-15450	-15384	-15385	MG	0.00	0.00	500.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	500.00
3584	-12417	-12416	-12350	-12351	MG	0.00	0.00	500.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	500.00
3584	-12283	-12282	-12210	-12211	MG	0.00	0.00	500.00
3584	-12211	-12210	-12183	-12106	MG	0.00	0.00	500.00
3584	-12106	-12183	-12032	-12033	MG	0.00	0.00	500.00
3584	-12033	-12032	-11960	-11934	MG	0.00	0.00	500.00
3584	-11934	-11960	-11856	-11896	MG	0.00	0.00	500.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	500.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	500.00
3584	-12498	-12497	-12417	-12418	MG	0.00	0.00	500.00
3584	-14514	-14513	-14447	-14448	MG	0.00	0.00	500.00

3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	500.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	500.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	500.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	500.00
3584	-15651	-15650	-15584	-15585	MG	0.00	0.00	500.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	500.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	500.00
3584	-15453	-15452	-15386	-15387	MG	0.00	0.00	500.00
3584	-15387	-15386	-15320	-15321	MG	0.00	0.00	500.00
3584	-14515	-14514	-14448	-14449	MG	0.00	0.00	500.00
3584	-14449	-14448	-14382	-14383	MG	0.00	0.00	500.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	500.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	500.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	500.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	500.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	500.00
3584	-15520	-15519	-15453	-15454	MG	0.00	0.00	500.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	500.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	500.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	500.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	500.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	500.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	500.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	500.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	500.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	500.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	500.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	500.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	500.00
3584	-13980	-13979	-13909	-13910	MG	0.00	0.00	500.00
3584	-13910	-13909	-13841	-13842	MG	0.00	0.00	500.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	500.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	500.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	500.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	500.00
3584	-13578	-13577	-13511	-13512	MG	0.00	0.00	500.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	500.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	500.00
3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	500.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	500.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	500.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	500.00
3584	-12216	-12215	-12118	-12142	MG	0.00	0.00	500.00
3584	-12142	-12118	-12091	-12092	MG	0.00	0.00	500.00
3584	-12092	-12091	-11936	-11963	MG	0.00	0.00	500.00
3584	-11963	-11936	-11871	-11872	MG	0.00	0.00	500.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	500.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	500.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	500.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	500.00
3584	-12357	-12356	-12288	-12289	MG	0.00	0.00	500.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	500.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	500.00
3584	-12153	-12142	-12092	-12052	MG	0.00	0.00	500.00
3584	-12052	-12092	-11963	-11964	MG	0.00	0.00	500.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	500.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	500.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	500.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	500.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	500.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	500.00
3584	-12290	-12289	-12217	-12218	MG	0.00	0.00	500.00
3584	-12218	-12217	-12153	-12154	MG	0.00	0.00	500.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	500.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	500.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	500.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	500.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	500.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	500.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	500.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	500.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	500.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	500.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	500.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	500.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	500.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	500.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	500.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	500.00

3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	500.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	500.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	500.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	500.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	500.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	500.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	500.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	500.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	500.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	500.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	500.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	500.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	500.00
3584	-11595	-11594	-11524	-11525	MG	0.00	0.00	500.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	500.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	500.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	500.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	500.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	500.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	500.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	500.00
3584	-11734	-11733	-11660	-11661	MG	0.00	0.00	500.00
3584	-11661	-11660	-11595	-11596	MG	0.00	0.00	500.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	500.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	500.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	500.00
3584	-11386	-11385	-11319	-11320	MG	0.00	0.00	500.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	500.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	500.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	500.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	500.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	500.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	500.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	500.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	500.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	500.00
3584	-11387	-11386	-11320	-11321	MG	0.00	0.00	500.00
3584	-11321	-11320	-11248	-11249	MG	0.00	0.00	500.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	500.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	500.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	500.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	500.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	500.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	500.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	500.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	500.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	500.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	500.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	500.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	500.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	500.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	500.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	500.00
3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	500.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	500.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	500.00
3584	-11389	-11388	-11322	-11323	MG	0.00	0.00	500.00
3584	-11323	-11322	-11250	-11251	MG	0.00	0.00	500.00
3584	-11251	-11250	-11184	-11185	MG	0.00	0.00	500.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	500.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	500.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	500.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	500.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	500.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	500.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	500.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	500.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	500.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	500.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	500.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	500.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	500.00
3584	-11675	-11674	-11600	-11601	MG	0.00	0.00	500.00
3584	-11601	-11600	-11530	-11531	MG	0.00	0.00	500.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	500.00
3584	-11461	-11460	-11390	-11391	MG	0.00	0.00	500.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	500.00
3584	-11325	-11324	-11252	-11253	MG	0.00	0.00	500.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	500.00

3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	500.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	500.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	500.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	500.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	500.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	500.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	500.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	500.00
3584	-13307	-13306	-13237	-13238	MG	0.00	0.00	500.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	500.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	500.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	500.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	500.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	500.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	500.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	500.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	500.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	500.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	500.00
3584	-13239	-13238	-13176	-13177	MG	0.00	0.00	500.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	500.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	500.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	500.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	500.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	500.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	500.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	500.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	500.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	500.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	500.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	500.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	500.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	500.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	500.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	500.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	500.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	500.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	500.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	500.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	500.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	500.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	500.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	500.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	500.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	500.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	500.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	500.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	500.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	500.00
3584	-13037	-13036	-12952	-12953	MG	0.00	0.00	500.00
3584	-13036	-13035	-12951	-12952	MG	0.00	0.00	500.00
3584	-13035	-13034	-12950	-12951	MG	0.00	0.00	500.00
3584	-13034	-13033	-12967	-12950	MG	0.00	0.00	500.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	500.00
3584	-13032	-13031	-12948	-12949	MG	0.00	0.00	500.00
3584	-15840	-15839	-15773	-15774	MG	0.00	0.00	500.00
3584	-11522	-11521	-11451	-11452	MG	0.00	0.00	500.00
3584	-11452	-11451	-11381	-11382	MG	0.00	0.00	500.00
3584	-13028	-13027	-12944	-12945	MG	0.00	0.00	500.00
3584	-11316	-11315	-11243	-11244	MG	0.00	0.00	500.00
3584	-13026	-13025	-12942	-12943	MG	0.00	0.00	500.00
3584	-12953	-12952	-12875	-12876	MG	0.00	0.00	500.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	500.00
3584	-15974	-15973	-15907	-15908	MG	0.00	0.00	500.00
3584	-12950	-12967	-12872	-12873	MG	0.00	0.00	500.00
3584	-11593	-11592	-11522	-11523	MG	0.00	0.00	500.00
3584	-15775	-15774	-15708	-15709	MG	0.00	0.00	500.00
3584	-12948	-12947	-12869	-12870	MG	0.00	0.00	500.00
3584	-15643	-15642	-15576	-15577	MG	0.00	0.00	500.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	500.00
3584	-12945	-12944	-12866	-12867	MG	0.00	0.00	500.00
3584	-15445	-15444	-15378	-15379	MG	0.00	0.00	500.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	500.00
3584	-12876	-12875	-12805	-12806	MG	0.00	0.00	500.00
3584	-15909	-15908	-15841	-15842	MG	0.00	0.00	500.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	500.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	500.00
3584	-15710	-15709	-15643	-15644	MG	0.00	0.00	500.00
3584	-15644	-15643	-15577	-15578	MG	0.00	0.00	500.00

3584	-12870	-12869	-12799	-12800	MG	0.00	0.00	500.00
3584	-15512	-15511	-15445	-15446	MG	0.00	0.00	500.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	500.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	500.00
3584	-11733	-11732	-11671	-11660	MG	0.00	0.00	500.00
3584	-11660	-11671	-11594	-11595	MG	0.00	0.00	500.00
3584	-12221	-12220	-12184	-12156	MG	0.00	0.00	500.00
3584	-11525	-11524	-11454	-11455	MG	0.00	0.00	500.00
3584	-11455	-11454	-11384	-11385	MG	0.00	0.00	500.00
3584	-11385	-11384	-11318	-11319	MG	0.00	0.00	500.00
3584	-15579	-15578	-15512	-15513	MG	0.00	0.00	500.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	500.00
3584	-15447	-15446	-15380	-15381	MG	0.00	0.00	500.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	500.00
3584	-10903	-10890	-10825	-10826	MG	0.00	0.00	500.00
3584	-10826	-10825	-10759	-10760	MG	0.00	0.00	500.00
3584	-15844	-15843	-15777	-15778	MG	0.00	0.00	500.00
3584	-14989	-14988	-14922	-14923	MG	0.00	0.00	500.00
3584	-15712	-15711	-15645	-15646	MG	0.00	0.00	500.00
3584	-10474	-10473	-10404	-10405	MG	0.00	0.00	500.00
3584	-11320	-11319	-11247	-11248	MG	0.00	0.00	500.00
3584	-11248	-11247	-11181	-11182	MG	0.00	0.00	500.00
3584	-15448	-15447	-15381	-15382	MG	0.00	0.00	500.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	500.00
3584	-11735	-11734	-11661	-11672	MG	0.00	0.00	500.00
3584	-11672	-11661	-11596	-11597	MG	0.00	0.00	500.00
3584	-11597	-11596	-11526	-11527	MG	0.00	0.00	500.00
3584	-11527	-11526	-11456	-11457	MG	0.00	0.00	500.00
3584	-15713	-15712	-15646	-15647	MG	0.00	0.00	500.00
3584	-10475	-10474	-10405	-10406	MG	0.00	0.00	500.00
3584	-10406	-10405	-10330	-10353	MG	0.00	0.00	500.00
3584	-15515	-15514	-15448	-15449	MG	0.00	0.00	500.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	500.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	500.00
3584	-14511	-14510	-14444	-14445	MG	0.00	0.00	500.00
3584	-15913	-15912	-15845	-15846	MG	0.00	0.00	500.00
3584	-14379	-14378	-14312	-14313	MG	0.00	0.00	500.00
3584	-15780	-15779	-15713	-15714	MG	0.00	0.00	500.00
3584	-11458	-11457	-11387	-11388	MG	0.00	0.00	500.00
3584	-11388	-11387	-11321	-11322	MG	0.00	0.00	500.00
3584	-11322	-11321	-11249	-11250	MG	0.00	0.00	500.00
3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	500.00
3584	-15450	-15449	-15383	-15384	MG	0.00	0.00	500.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	500.00
3584	-14512	-14511	-14445	-14446	MG	0.00	0.00	500.00
3584	-14446	-14445	-14379	-14380	MG	0.00	0.00	500.00
3584	-11599	-11598	-11528	-11529	MG	0.00	0.00	500.00
3584	-11529	-11528	-11458	-11459	MG	0.00	0.00	500.00
3584	-11459	-11458	-11388	-11389	MG	0.00	0.00	500.00
3584	-10477	-10476	-10407	-10408	MG	0.00	0.00	500.00
3584	-16379	-16378	-16312	-16313	MG	0.00	0.00	500.00
3584	-11114	-11113	-11047	-11037	MG	0.00	0.00	500.00
3584	-11185	-11184	-11118	-11119	MG	0.00	0.00	500.00
3584	-15385	-15384	-15318	-15319	MG	0.00	0.00	500.00
3584	-11738	-11737	-11673	-11674	MG	0.00	0.00	500.00
3584	-15915	-15914	-15847	-15848	MG	0.00	0.00	500.00
3584	-15848	-15847	-15781	-15782	MG	0.00	0.00	500.00
3584	-11530	-11529	-11459	-11460	MG	0.00	0.00	500.00
3584	-11460	-11459	-11389	-11390	MG	0.00	0.00	500.00
3584	-11390	-11389	-11323	-11324	MG	0.00	0.00	500.00
3584	-15584	-15583	-15517	-15518	MG	0.00	0.00	500.00
3584	-11896	-11856	-11794	-11795	MG	0.00	0.00	500.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	500.00
3584	-15386	-15385	-15319	-15320	MG	0.00	0.00	500.00
3584	-15982	-15981	-15915	-15916	MG	0.00	0.00	500.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	500.00
3584	-10765	-10764	-10676	-10677	MG	0.00	0.00	500.00
3584	-15783	-15782	-15716	-15717	MG	0.00	0.00	500.00
3584	-10550	-10566	-10478	-10479	MG	0.00	0.00	500.00
3584	-11391	-11390	-11324	-11325	MG	0.00	0.00	500.00
3584	-16305	-16304	-16238	-16239	MG	0.00	0.00	500.00
3584	-15519	-15518	-15452	-15453	MG	0.00	0.00	500.00
3584	-11187	-11186	-11120	-11121	MG	0.00	0.00	500.00
3584	-13314	-13313	-13244	-13245	MG	0.00	0.00	500.00
3584	-15983	-15982	-15916	-15917	MG	0.00	0.00	500.00
3584	-13312	-13311	-13242	-13243	MG	0.00	0.00	500.00
3584	-15850	-15849	-15783	-15784	MG	0.00	0.00	500.00
3584	-15784	-15783	-15717	-15718	MG	0.00	0.00	500.00
3584	-13309	-13308	-13239	-13240	MG	0.00	0.00	500.00



3584	-13308	-13307	-13238	-13239	MG	0.00	0.00	500.00
3584	-10410	-10409	-10332	-10333	MG	0.00	0.00	500.00
3584	-13306	-13305	-13236	-13237	MG	0.00	0.00	500.00
3584	-15454	-15453	-15387	-15388	MG	0.00	0.00	500.00
3584	-15388	-15387	-15321	-15322	MG	0.00	0.00	500.00
3584	-13303	-13302	-13233	-13234	MG	0.00	0.00	500.00
3584	-15918	-15917	-15850	-15851	MG	0.00	0.00	500.00
3584	-15851	-15850	-15784	-15785	MG	0.00	0.00	500.00
3584	-15785	-15784	-15718	-15719	MG	0.00	0.00	500.00
3584	-15719	-15718	-15652	-15653	MG	0.00	0.00	500.00
3584	-15653	-15652	-15586	-15587	MG	0.00	0.00	500.00
3584	-15587	-15586	-15520	-15521	MG	0.00	0.00	500.00
3584	-16176	-16175	-16109	-16110	MG	0.00	0.00	500.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	500.00
3584	-15389	-15388	-15322	-15323	MG	0.00	0.00	500.00
3584	-13236	-13235	-13173	-13174	MG	0.00	0.00	500.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	500.00
3584	-13842	-13841	-13775	-13776	MG	0.00	0.00	500.00
3584	-13776	-13775	-13709	-13710	MG	0.00	0.00	500.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	500.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	500.00
3584	-13179	-13166	-13082	-13102	MG	0.00	0.00	500.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	500.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	500.00
3584	-13370	-13369	-13302	-13303	MG	0.00	0.00	500.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	500.00
3584	-11728	-11727	-11656	-11657	MG	0.00	0.00	500.00
3584	-12288	-12287	-12215	-12216	MG	0.00	0.00	500.00
3584	-11590	-11589	-11519	-11520	MG	0.00	0.00	500.00
3584	-11520	-11519	-11449	-11450	MG	0.00	0.00	500.00
3584	-13104	-13083	-13036	-13037	MG	0.00	0.00	500.00
3584	-11380	-11379	-11313	-11314	MG	0.00	0.00	500.00
3584	-11314	-11313	-11241	-11242	MG	0.00	0.00	500.00
3584	-11242	-11241	-11175	-11176	MG	0.00	0.00	500.00
3584	-11176	-11175	-11109	-11110	MG	0.00	0.00	500.00
3584	-11795	-11794	-11728	-11729	MG	0.00	0.00	500.00
3584	-11729	-11728	-11657	-11658	MG	0.00	0.00	500.00
3584	-11658	-11657	-11590	-11591	MG	0.00	0.00	500.00
3584	-11591	-11590	-11520	-11521	MG	0.00	0.00	500.00
3584	-11521	-11520	-11450	-11451	MG	0.00	0.00	500.00
3584	-11451	-11450	-11380	-11381	MG	0.00	0.00	500.00
3584	-11381	-11380	-11314	-11315	MG	0.00	0.00	500.00
3584	-11315	-11314	-11242	-11243	MG	0.00	0.00	500.00
3584	-11243	-11242	-11176	-11177	MG	0.00	0.00	500.00
3584	-11177	-11176	-11110	-11111	MG	0.00	0.00	500.00
3584	-11796	-11795	-11729	-11730	MG	0.00	0.00	500.00
3584	-11730	-11729	-11658	-11670	MG	0.00	0.00	500.00
3584	-11670	-11658	-11591	-11592	MG	0.00	0.00	500.00
3584	-11592	-11591	-11521	-11522	MG	0.00	0.00	500.00
3584	-12154	-12153	-12052	-12018	MG	0.00	0.00	500.00
3584	-12018	-12052	-11964	-11992	MG	0.00	0.00	500.00
3584	-11992	-11964	-11859	-11873	MG	0.00	0.00	500.00
3584	-11873	-11859	-11801	-11802	MG	0.00	0.00	500.00
3584	-11244	-11243	-11177	-11178	MG	0.00	0.00	500.00
3584	-11178	-11177	-11111	-11112	MG	0.00	0.00	500.00
3584	-11797	-11796	-11730	-11731	MG	0.00	0.00	500.00
3584	-11731	-11730	-11670	-11659	MG	0.00	0.00	500.00
3584	-11659	-11670	-11592	-11593	MG	0.00	0.00	500.00
3584	-12219	-12218	-12154	-12155	MG	0.00	0.00	500.00
3584	-11523	-11522	-11452	-11453	MG	0.00	0.00	500.00
3584	-12093	-12018	-11992	-11965	MG	0.00	0.00	500.00
3584	-11383	-11382	-11316	-11317	MG	0.00	0.00	500.00
3584	-11317	-11316	-11244	-11245	MG	0.00	0.00	500.00
3584	-11245	-11244	-11178	-11179	MG	0.00	0.00	500.00
3584	-11179	-11178	-11112	-11113	MG	0.00	0.00	500.00
3584	-11798	-11797	-11731	-11732	MG	0.00	0.00	500.00
3584	-12360	-12359	-12291	-12292	MG	0.00	0.00	500.00
3584	-11671	-11659	-11593	-11594	MG	0.00	0.00	500.00
3584	-11594	-11593	-11523	-11524	MG	0.00	0.00	500.00
3584	-11524	-11523	-11453	-11454	MG	0.00	0.00	500.00
3584	-11454	-11453	-11383	-11384	MG	0.00	0.00	500.00
3584	-11384	-11383	-11317	-11318	MG	0.00	0.00	500.00
3584	-11318	-11317	-11245	-11246	MG	0.00	0.00	500.00
3584	-11246	-11245	-11179	-11180	MG	0.00	0.00	500.00
3584	-11180	-11179	-11113	-11114	MG	0.00	0.00	500.00
3584	-11799	-11798	-11732	-11733	MG	0.00	0.00	500.00
3584	-12361	-12360	-12292	-12293	MG	0.00	0.00	500.00
3584	-12293	-12292	-12220	-12221	MG	0.00	0.00	500.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	500.00

3584	-12156	-12184	-12094	-12059	MG	0.00	0.00	500.00
3584	-12059	-12094	-11993	-11966	MG	0.00	0.00	500.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	500.00
3584	-11319	-11318	-11246	-11247	MG	0.00	0.00	500.00
3584	-11247	-11246	-11180	-11181	MG	0.00	0.00	500.00
3584	-11181	-11180	-11114	-11115	MG	0.00	0.00	500.00
3584	-11800	-11799	-11733	-11734	MG	0.00	0.00	500.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	500.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	500.00
3584	-11596	-11595	-11525	-11526	MG	0.00	0.00	500.00
3584	-11526	-11525	-11455	-11456	MG	0.00	0.00	500.00
3584	-11456	-11455	-11385	-11386	MG	0.00	0.00	500.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	500.00
3584	-10405	-10404	3504	-10330	MG	0.00	0.00	500.00
3584	-11111	-11110	-11044	-11045	MG	0.00	0.00	500.00
3584	-11182	-11181	-11115	-11116	MG	0.00	0.00	500.00
3584	-11801	-11800	-11734	-11735	MG	0.00	0.00	500.00
3584	-10904	-10903	-10826	-10827	MG	0.00	0.00	500.00
3584	-10827	-10826	-10760	-10761	MG	0.00	0.00	500.00
3584	-10761	-10760	-10672	-10673	MG	0.00	0.00	500.00
3584	-16510	-16509	-16443	-16444	MG	0.00	0.00	500.00
3584	-11457	-11456	-11386	-11387	MG	0.00	0.00	500.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	500.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	500.00
3584	-11249	-11248	-11182	-11183	MG	0.00	0.00	500.00
3584	-11183	-11182	-11116	-11117	MG	0.00	0.00	500.00
3584	-11802	-11801	-11735	-11736	MG	0.00	0.00	500.00
3584	-11736	-11735	-11672	-11662	MG	0.00	0.00	500.00
3584	-11662	-11672	-11597	-11598	MG	0.00	0.00	500.00
3584	-11598	-11597	-11527	-11528	MG	0.00	0.00	500.00
3584	-11528	-11527	-11457	-11458	MG	0.00	0.00	500.00
3584	-10539	-10577	-10475	-10476	MG	0.00	0.00	500.00
3584	-10476	-10475	-10406	-10407	MG	0.00	0.00	500.00
3584	-10407	-10406	-10353	-10354	MG	0.00	0.00	500.00
3584	-11250	-11249	-11183	-11184	MG	0.00	0.00	500.00
3584	-11184	-11183	-11117	-11118	MG	0.00	0.00	500.00
3584	-11803	-11802	-11736	-11737	MG	0.00	0.00	500.00
3584	-11737	-11736	-11662	-11673	MG	0.00	0.00	500.00
3584	-11673	-11662	-11598	-11599	MG	0.00	0.00	500.00
3584	-16437	-16436	-16370	-16371	MG	0.00	0.00	500.00
3584	-10675	-10674	-10539	-10625	MG	0.00	0.00	500.00
3584	-10625	-10539	-10476	-10477	MG	0.00	0.00	500.00
3584	-16380	-16379	-16313	-16314	MG	0.00	0.00	500.00
3584	-12358	-12357	-12289	-12290	MG	0.00	0.00	500.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	500.00
3584	-16377	-16376	-16310	-16311	MG	0.00	0.00	500.00
3584	-11804	-11803	-11737	-11738	MG	0.00	0.00	500.00
3584	-10891	-10906	-10829	-10830	MG	0.00	0.00	500.00
3584	-11674	-11673	-11599	-11600	MG	0.00	0.00	500.00
3584	-11600	-11599	-11529	-11530	MG	0.00	0.00	500.00
3584	-10676	-10675	-10625	-10566	MG	0.00	0.00	500.00
3584	-10566	-10625	-10477	-10478	MG	0.00	0.00	500.00
3584	-10478	-10477	-10408	-10434	MG	0.00	0.00	500.00
3584	-11324	-11323	-11251	-11252	MG	0.00	0.00	500.00
3584	-11252	-11251	-11185	-11186	MG	0.00	0.00	500.00
3584	-11186	-11185	-11119	-11120	MG	0.00	0.00	500.00
3584	-11805	-11804	-11738	-11739	MG	0.00	0.00	500.00
3584	-11739	-11738	-11674	-11675	MG	0.00	0.00	500.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	500.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	500.00
3584	-11531	-11530	-11460	-11461	MG	0.00	0.00	500.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	500.00
3584	-10479	-10478	-10434	-10409	MG	0.00	0.00	500.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	500.00
3584	-11253	-11252	-11186	-11187	MG	0.00	0.00	500.00
3584	-11049	-11048	-10972	-10973	MG	0.00	0.00	500.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	500.00
3584	-13313	-13312	-13243	-13244	MG	0.00	0.00	500.00
3584	-10831	-10852	-10765	-10766	MG	0.00	0.00	500.00
3584	-13311	-13310	-13241	-13242	MG	0.00	0.00	500.00
3584	-13310	-13309	-13240	-13241	MG	0.00	0.00	500.00
3584	-16243	-16242	-16176	-16177	MG	0.00	0.00	500.00
3584	-16242	-16241	-16175	-16176	MG	0.00	0.00	500.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	500.00
3584	-11117	-11116	-11049	-11055	MG	0.00	0.00	500.00
3584	-13305	-13304	-13235	-13236	MG	0.00	0.00	500.00
3584	-13304	-13303	-13234	-13235	MG	0.00	0.00	500.00
3584	-10916	-10908	-10831	-10832	MG	0.00	0.00	500.00
3584	-13245	-13244	-13181	-13182	MG	0.00	0.00	500.00

3584	-13244	-13243	-13180	-13181	MG	0.00	0.00	500.00
3584	-13243	-13242	-13179	-13180	MG	0.00	0.00	500.00
3584	-13242	-13241	-13166	-13179	MG	0.00	0.00	500.00
3584	-13241	-13240	-13178	-13166	MG	0.00	0.00	500.00
3584	-13240	-13239	-13177	-13178	MG	0.00	0.00	500.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	500.00
3584	-13238	-13237	-13175	-13176	MG	0.00	0.00	500.00
3584	-13237	-13236	-13174	-13175	MG	0.00	0.00	500.00
3584	-10909	-10916	-10832	-10833	MG	0.00	0.00	500.00
3584	-13235	-13234	-13165	-13173	MG	0.00	0.00	500.00
3584	-13234	-13233	-13164	-13165	MG	0.00	0.00	500.00
3584	-13182	-13181	-13083	-13104	MG	0.00	0.00	500.00
3584	-13181	-13180	-13103	-13083	MG	0.00	0.00	500.00
3584	-13180	-13179	-13102	-13103	MG	0.00	0.00	500.00
3584	-16113	-16112	-16046	-16047	MG	0.00	0.00	500.00
3584	-13166	-13178	-13101	-13082	MG	0.00	0.00	500.00
3584	-13178	-13177	-13100	-13101	MG	0.00	0.00	500.00
3584	-13177	-13176	-13099	-13100	MG	0.00	0.00	500.00
3584	-13176	-13175	-13098	-13099	MG	0.00	0.00	500.00
3584	-13175	-13174	-13126	-13098	MG	0.00	0.00	500.00
3584	-13174	-13173	-13097	-13126	MG	0.00	0.00	500.00
3584	-13173	-13165	-13096	-13097	MG	0.00	0.00	500.00
3584	-13165	-13164	-13095	-13096	MG	0.00	0.00	500.00
3584	-10483	-10482	-10412	-10413	MG	0.00	0.00	500.00
3584	-13083	-13103	-13035	-13036	MG	0.00	0.00	500.00
3584	-13103	-13102	-13034	-13035	MG	0.00	0.00	500.00
3584	-13102	-13082	-13033	-13034	MG	0.00	0.00	500.00
3584	-13082	-13101	-13032	-13033	MG	0.00	0.00	500.00
3584	-13101	-13100	-13031	-13032	MG	0.00	0.00	500.00
3584	-13100	-13099	-13030	-13031	MG	0.00	0.00	500.00
3584	-13099	-13098	-13029	-13030	MG	0.00	0.00	500.00
3584	-13098	-13126	-13028	-13029	MG	0.00	0.00	500.00
3584	-13126	-13097	-13027	-13028	MG	0.00	0.00	500.00
3584	-13097	-13096	-13026	-13027	MG	0.00	0.00	500.00
3584	-13096	-13095	-13025	-13026	MG	0.00	0.00	500.00
3584	-11859	-11872	-11800	-11801	MG	0.00	0.00	500.00
3584	-12588	-12587	-12503	-12504	MG	0.00	0.00	500.00
3584	-12504	-12503	-12423	-12424	MG	0.00	0.00	500.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	500.00
3584	-12424	-12423	-12357	-12358	MG	0.00	0.00	500.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	500.00
3584	-13031	-13030	-12947	-12948	MG	0.00	0.00	500.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	500.00
3584	-10971	-10970	-10906	-10891	MG	0.00	0.00	500.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	500.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	500.00
3584	-12589	-12588	-12504	-12505	MG	0.00	0.00	500.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	500.00
3584	-12952	-12951	-12874	-12875	MG	0.00	0.00	500.00
3584	-12951	-12950	-12873	-12874	MG	0.00	0.00	500.00
3584	-12291	-12290	-12218	-12219	MG	0.00	0.00	500.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	500.00
3584	-12949	-12948	-12870	-12871	MG	0.00	0.00	500.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	500.00
3584	-12947	-12946	-12868	-12869	MG	0.00	0.00	500.00
3584	-11860	-11873	-11802	-11803	MG	0.00	0.00	500.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	500.00
3584	-12944	-12943	-12865	-12866	MG	0.00	0.00	500.00
3584	-12943	-12942	-12864	-12865	MG	0.00	0.00	500.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	500.00
3584	-12875	-12874	-12804	-12805	MG	0.00	0.00	500.00
3584	-12220	-12219	-12155	-12184	MG	0.00	0.00	500.00
3584	-12184	-12155	-12093	-12094	MG	0.00	0.00	500.00
3584	-12872	-12871	-12801	-12802	MG	0.00	0.00	500.00
3584	-12871	-12870	-12800	-12801	MG	0.00	0.00	500.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	500.00
3584	-12869	-12868	-12798	-12799	MG	0.00	0.00	500.00
3584	-12868	-12867	-12797	-12798	MG	0.00	0.00	500.00
3584	-12867	-12866	-12796	-12797	MG	0.00	0.00	500.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	500.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	500.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	500.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	500.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	500.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	500.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	500.00
3584	-15513	-15512	-15446	-15447	MG	0.00	0.00	500.00
3584	-11044	-11054	-10966	-10967	MG	0.00	0.00	500.00
3584	-15256	-15255	-15188	-15189	MG	0.00	0.00	500.00

3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	500.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	500.00
3584	-10760	-10759	-10671	-10672	MG	0.00	0.00	500.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	500.00
3584	-14923	-14922	-14856	-14857	MG	0.00	0.00	500.00
3584	-16173	-16172	-16106	-16107	MG	0.00	0.00	500.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	500.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	500.00
3584	-11045	-11044	-10967	-10968	MG	0.00	0.00	500.00
3584	-15382	-15381	-15315	-15316	MG	0.00	0.00	500.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	500.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	500.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	500.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	500.00
3584	-14924	-14923	-14857	-14858	MG	0.00	0.00	500.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	500.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	500.00
3584	-16506	-16505	-16439	-16440	MG	0.00	0.00	500.00
3584	-15449	-15448	-15382	-15383	MG	0.00	0.00	500.00
3584	-14581	-14580	-14510	-14511	MG	0.00	0.00	500.00
3584	-16503	-16502	-16436	-16437	MG	0.00	0.00	500.00
3584	-14445	-14444	-14378	-14379	MG	0.00	0.00	500.00
3584	-10762	-10761	-10673	-10674	MG	0.00	0.00	500.00
3584	-16446	-16445	-16379	-16380	MG	0.00	0.00	500.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	500.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	500.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	500.00
3584	-14046	-14069	-13979	-13980	MG	0.00	0.00	500.00
3584	-14650	-14649	-14581	-14582	MG	0.00	0.00	500.00
3584	-14582	-14581	-14511	-14512	MG	0.00	0.00	500.00
3584	-10906	-10905	-10828	-10829	MG	0.00	0.00	500.00
3584	-16438	-16437	-16371	-16372	MG	0.00	0.00	500.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	500.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	500.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	500.00
3584	-16435	-16434	-16368	-16369	MG	0.00	0.00	500.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	500.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	500.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	500.00
3584	-16537	-16536	-16602	-16603	MG	0.00	0.00	500.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	500.00
3584	-12351	-12350	-12282	-12283	MG	0.00	0.00	500.00
3584	-10764	-10763	-10675	-10676	MG	0.00	0.00	500.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	500.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	500.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	500.00
3584	-16369	-16368	-16302	-16303	MG	0.00	0.00	500.00
3584	-16314	-16313	-16247	-16248	MG	0.00	0.00	500.00
3584	-12582	-12581	-12497	-12498	MG	0.00	0.00	500.00
3584	-10972	-10971	-10891	-10907	MG	0.00	0.00	500.00
3584	-10907	-10891	-10830	-10852	MG	0.00	0.00	500.00
3584	-11965	-11992	-11873	-11860	MG	0.00	0.00	500.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	500.00
3584	-16308	-16307	-16241	-16242	MG	0.00	0.00	500.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	500.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	500.00
3584	-14456	-14455	-14389	-14390	MG	0.00	0.00	500.00
3584	-11116	-11115	-11048	-11049	MG	0.00	0.00	500.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	500.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	500.00
3584	-10908	-10907	-10852	-10831	MG	0.00	0.00	500.00
3584	-16246	-16245	-16179	-16180	MG	0.00	0.00	500.00
3584	-14383	-14382	-14316	-14317	MG	0.00	0.00	500.00
3584	-10654	-10677	-10550	-10567	MG	0.00	0.00	500.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	500.00
3584	-12427	-12426	-12360	-12361	MG	0.00	0.00	500.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	500.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	500.00
3584	-16239	-16238	-16172	-16173	MG	0.00	0.00	500.00
3584	-10974	-10973	-10908	-10916	MG	0.00	0.00	500.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	500.00
3584	-10832	-10831	-10766	-10767	MG	0.00	0.00	500.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	500.00
3584	-10678	-10654	-10567	-10630	MG	0.00	0.00	500.00
3584	-16179	-16178	-16112	-16113	MG	0.00	0.00	500.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	500.00
3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	500.00
3584	-16409	-16408	-16474	-16475	MG	0.00	0.00	500.00
3584	-11056	-11055	-10974	-10975	MG	0.00	0.00	500.00

3584	-10975	-10974	-10916	-10909	MG	0.00	0.00	500.00
3584	-10565	-10576	-10473	-10474	MG	0.00	0.00	500.00
3584	-10833	-10832	-10767	-10768	MG	0.00	0.00	500.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	500.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	500.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	500.00
3584	-13644	-13643	-13577	-13578	MG	0.00	0.00	500.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	500.00
3584	-13512	-13511	-13441	-13442	MG	0.00	0.00	500.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	500.00
3584	-10976	-10975	-10909	-10910	MG	0.00	0.00	500.00
3584	-12422	-12421	-12355	-12356	MG	0.00	0.00	500.00
3584	-12356	-12355	-12287	-12288	MG	0.00	0.00	500.00
3584	-16107	-16106	-16040	-16041	MG	0.00	0.00	500.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	500.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	500.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	500.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	500.00
3584	-11872	-11871	-11799	-11800	MG	0.00	0.00	500.00
3584	-12587	-12586	-12502	-12503	MG	0.00	0.00	500.00
3584	-12503	-12502	-12422	-12423	MG	0.00	0.00	500.00
3584	-12423	-12422	-12356	-12357	MG	0.00	0.00	500.00
3584	-13912	-13911	-13843	-13844	MG	0.00	0.00	500.00
3584	-12289	-12288	-12216	-12217	MG	0.00	0.00	500.00
3584	-12217	-12216	-12142	-12153	MG	0.00	0.00	500.00
3584	-13712	-13711	-13645	-13646	MG	0.00	0.00	500.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	500.00
3584	-11964	-11963	-11872	-11859	MG	0.00	0.00	500.00
3584	-13514	-13513	-13443	-13444	MG	0.00	0.00	500.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	500.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	500.00
3584	-16544	-16543	-16609	-16610	MG	0.00	0.00	500.00
3584	-11110	-11109	-11054	-11044	MG	0.00	0.00	500.00
3584	-16405	-16404	-16470	-16471	MG	0.00	0.00	500.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	500.00
3584	-10481	-10480	-10410	-10411	MG	0.00	0.00	500.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	500.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	500.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	500.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	500.00
3584	-12505	-12504	-12424	-12425	MG	0.00	0.00	500.00
3584	-12425	-12424	-12358	-12359	MG	0.00	0.00	500.00
3584	-12359	-12358	-12290	-12291	MG	0.00	0.00	500.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	500.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	500.00
3584	-12155	-12154	-12018	-12093	MG	0.00	0.00	500.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	500.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-12590	-12589	-12505	-12506	MG	0.00	0.00	500.00
3584	-12506	-12505	-12425	-12426	MG	0.00	0.00	500.00
3584	-12426	-12425	-12359	-12360	MG	0.00	0.00	500.00
3584	-16306	-16305	-16239	-16240	MG	0.00	0.00	500.00
3584	-12292	-12291	-12219	-12220	MG	0.00	0.00	500.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	500.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	500.00
3584	-12094	-12093	-11965	-11993	MG	0.00	0.00	500.00
3584	-11993	-11965	-11860	-11874	MG	0.00	0.00	500.00
3584	-11874	-11860	-11803	-11804	MG	0.00	0.00	500.00
3584	-12591	-12590	-12506	-12507	MG	0.00	0.00	500.00
3584	-12507	-12506	-12426	-12427	MG	0.00	0.00	500.00
3584	-15446	-15445	-15379	-15380	MG	0.00	0.00	500.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	500.00
3584	-16608	-16607	-16574	-16575	MG	0.00	0.00	500.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	500.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	500.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	500.00
3584	-16237	-16236	-16170	-16171	MG	0.00	0.00	500.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	500.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	500.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	500.00
3584	-16180	-16179	-16113	-16114	MG	0.00	0.00	500.00
3584	-16378	-16377	-16311	-16312	MG	0.00	0.00	500.00
3584	-10411	-10410	-10333	-10356	MG	0.00	0.00	500.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	500.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	500.00
3584	-16174	-16173	-16107	-16108	MG	0.00	0.00	500.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	500.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	500.00

3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	500.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	500.00
3584	-10968	-10967	-10903	-10904	MG	0.00	0.00	500.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	500.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	500.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	500.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	500.00
3584	-16509	-16508	-16442	-16443	MG	0.00	0.00	500.00
3584	-16508	-16507	-16441	-16442	MG	0.00	0.00	500.00
3584	-16507	-16506	-16440	-16441	MG	0.00	0.00	500.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	500.00
3584	-11046	-11045	-10968	-10969	MG	0.00	0.00	500.00
3584	-10969	-10968	-10904	-10905	MG	0.00	0.00	500.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	500.00
3584	-10828	-10827	-10761	-10762	MG	0.00	0.00	500.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	500.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	500.00
3584	-16445	-16444	-16378	-16379	MG	0.00	0.00	500.00
3584	-16444	-16443	-16377	-16378	MG	0.00	0.00	500.00
3584	-16443	-16442	-16376	-16377	MG	0.00	0.00	500.00
3584	-16442	-16441	-16375	-16376	MG	0.00	0.00	500.00
3584	-11047	-11046	-10969	-10970	MG	0.00	0.00	500.00
3584	-10970	-10969	-10905	-10906	MG	0.00	0.00	500.00
3584	-16439	-16438	-16372	-16373	MG	0.00	0.00	500.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	500.00
3584	-16412	-16411	-16477	-16478	MG	0.00	0.00	500.00
3584	-16436	-16435	-16369	-16370	MG	0.00	0.00	500.00
3584	-13580	-13579	-13513	-13514	MG	0.00	0.00	500.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	500.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	500.00
3584	-13778	-13777	-13711	-13712	MG	0.00	0.00	500.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	500.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	500.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	500.00
3584	-16374	-16373	-16307	-16308	MG	0.00	0.00	500.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	500.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	500.00
3584	-16371	-16370	-16304	-16305	MG	0.00	0.00	500.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	500.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	500.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	500.00
3584	-11048	-11037	-10971	-10972	MG	0.00	0.00	500.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	500.00
3584	-16312	-16311	-16245	-16246	MG	0.00	0.00	500.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	500.00
3584	-16309	-16308	-16242	-16243	MG	0.00	0.00	500.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	500.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	500.00
3584	-15379	-15378	-15312	-15313	MG	0.00	0.00	500.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	500.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	500.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	500.00
3584	-16303	-16302	-16236	-16237	MG	0.00	0.00	500.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	500.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	500.00
3584	-10766	-10765	-10677	-10654	MG	0.00	0.00	500.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	500.00
3584	-16044	-16043	-15977	-15978	MG	0.00	0.00	500.00
3584	-15380	-15379	-15313	-15314	MG	0.00	0.00	500.00
3584	-16609	-16608	-16575	-16576	MG	0.00	0.00	500.00
3584	-10568	-10579	-10483	-10484	MG	0.00	0.00	500.00
3584	-16240	-16239	-16173	-16174	MG	0.00	0.00	500.00
3584	-16540	-16539	-16605	-16606	MG	0.00	0.00	500.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	500.00
3584	-16440	-16439	-16373	-16374	MG	0.00	0.00	500.00
3584	-16042	-16041	-15975	-15976	MG	0.00	0.00	500.00
3584	-16182	-16181	-16115	-16116	MG	0.00	0.00	500.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	500.00
3584	-10692	-10691	-10578	-10579	MG	0.00	0.00	500.00
3584	-10579	-10578	-10482	-10483	MG	0.00	0.00	500.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	500.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	500.00
3584	-16541	-16540	-16606	-16607	MG	0.00	0.00	500.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	500.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	500.00
3584	-16171	-16170	-16104	-16105	MG	0.00	0.00	500.00
3584	-16116	-16115	-16049	-16050	MG	0.00	0.00	500.00
3584	-10578	-10630	-10481	-10482	MG	0.00	0.00	500.00
3584	-10482	-10481	-10411	-10412	MG	0.00	0.00	500.00

3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	500.00
3584	-11119	-11118	-11056	-11057	MG	0.00	0.00	500.00
3584	-11057	-11056	-10975	-10976	MG	0.00	0.00	500.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	500.00
3584	-10910	-10909	-10833	-10834	MG	0.00	0.00	500.00
3584	-16108	-16107	-16041	-16042	MG	0.00	0.00	500.00
3584	-16441	-16440	-16374	-16375	MG	0.00	0.00	500.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	500.00
3584	-16050	-16049	-15983	-15984	MG	0.00	0.00	500.00
3584	-11120	-11119	-11057	-11058	MG	0.00	0.00	500.00
3584	-11058	-11057	-10976	-10977	MG	0.00	0.00	500.00
3584	-10977	-10976	-10910	-10917	MG	0.00	0.00	500.00
3584	-16045	-16044	-15978	-15979	MG	0.00	0.00	500.00
3584	-16245	-16244	-16178	-16179	MG	0.00	0.00	500.00
3584	-10770	-10769	-10692	-10679	MG	0.00	0.00	500.00
3584	-10679	-10692	-10579	-10568	MG	0.00	0.00	500.00
3584	-16610	-16609	-16576	-16577	MG	0.00	0.00	500.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	500.00
3584	-10414	-10413	-10335	-10336	MG	0.00	0.00	500.00
3584	-13646	-13645	-13579	-13580	MG	0.00	0.00	500.00
3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	500.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-13844	-13843	-13777	-13778	MG	0.00	0.00	500.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	500.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	500.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	500.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	500.00
3584	-16375	-16374	-16308	-16309	MG	0.00	0.00	500.00
3584	-16475	-16474	-16540	-16541	MG	0.00	0.00	500.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	500.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	500.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	500.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	500.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	500.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	500.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	500.00
3584	-16538	-16537	-16603	-16604	MG	0.00	0.00	500.00
3584	-16311	-16310	-16244	-16245	MG	0.00	0.00	500.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	500.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	500.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	500.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	500.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	500.00
3584	-16504	-16503	-16437	-16438	MG	0.00	0.00	500.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	500.00
3584	-16376	-16375	-16309	-16310	MG	0.00	0.00	500.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	500.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	500.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	500.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	500.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	500.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	500.00
3584	-15384	-15383	-15317	-15318	MG	0.00	0.00	500.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	500.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	500.00
3584	-13442	-13441	-13369	-13370	MG	0.00	0.00	500.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	500.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	500.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	500.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	500.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	500.00
3584	-15383	-15382	-15316	-15317	MG	0.00	0.00	500.00
3584	-16177	-16176	-16110	-16111	MG	0.00	0.00	500.00
3584	-15101	-15162	-15161	-15100	MG	0.00	0.00	500.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	500.00
3584	-16373	-16372	-16306	-16307	MG	0.00	0.00	500.00
3584	-16372	-16371	-16305	-16306	MG	0.00	0.00	500.00
3584	-16402	-16401	-16467	-16468	MG	0.00	0.00	500.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	500.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	500.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	500.00
3584	-16512	-16511	-16445	-16446	MG	0.00	0.00	500.00
3584	-16511	-16510	-16444	-16445	MG	0.00	0.00	500.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	500.00

3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	500.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	500.00
3584	-16114	-16113	-16047	-16048	MG	0.00	0.00	500.00
3584	-16110	-16109	-16043	-16044	MG	0.00	0.00	500.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	500.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	500.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	500.00
3584	-16535	-16534	-16600	-16601	MG	0.00	0.00	500.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	500.00
3584	-16543	-16542	-16608	-16609	MG	0.00	0.00	500.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	500.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	500.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	500.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	500.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	500.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	500.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	500.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	500.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	500.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	500.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	500.00
3584	-16477	-16476	-16542	-16543	MG	0.00	0.00	500.00
3584	-16313	-16312	-16246	-16247	MG	0.00	0.00	500.00
3584	-16111	-16110	-16044	-16045	MG	0.00	0.00	500.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	500.00
3584	-16469	-16468	-16534	-16535	MG	0.00	0.00	500.00
3584	-14592	-14591	-14521	-14522	MG	0.00	0.00	500.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	500.00
3584	-16505	-16504	-16438	-16439	MG	0.00	0.00	500.00
3584	-16413	-16412	-16478	-16479	MG	0.00	0.00	500.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	500.00
3584	-16370	-16369	-16303	-16304	MG	0.00	0.00	500.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	500.00
3584	-13710	-13709	-13643	-13644	MG	0.00	0.00	500.00
3584	-15452	-15451	-15385	-15386	MG	0.00	0.00	500.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	500.00
3584	-14522	-14521	-14455	-14456	MG	0.00	0.00	500.00
3584	-16047	-16046	-15980	-15981	MG	0.00	0.00	500.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	500.00
3584	-13982	-13981	-13911	-13912	MG	0.00	0.00	500.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	500.00
3584	-13911	-13910	-13842	-13843	MG	0.00	0.00	500.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	500.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	500.00
3584	-13981	-13980	-13910	-13911	MG	0.00	0.00	500.00
3584	-16105	-16104	-16038	-16039	MG	0.00	0.00	500.00
3584	-16501	-16500	-16434	-16435	MG	0.00	0.00	500.00
3584	-16048	-16047	-15981	-15982	MG	0.00	0.00	500.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	500.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	500.00
3584	-16502	-16501	-16435	-16436	MG	0.00	0.00	500.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	500.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	500.00
3630	-15670	-15671	-15737	-15736	MG	0.00	0.00	500.00
3630	-11886	-11887	-11982	-11981	MG	0.00	0.00	500.00
3630	-15801	-15802	-15868	-15867	MG	0.00	0.00	500.00
3630	-12238	-12239	-12311	-12310	MG	0.00	0.00	500.00
3630	-15407	-15408	-15474	-15473	MG	0.00	0.00	500.00
3630	-15538	-15539	-15605	-15604	MG	0.00	0.00	500.00
3630	-11071	-11072	-11137	-11136	MG	0.00	0.00	500.00
3630	-13937	-13938	-14008	-14007	MG	0.00	0.00	500.00
3630	-14142	-14143	-14209	-14208	MG	0.00	0.00	500.00
3630	-15605	-15606	-15672	-15671	MG	0.00	0.00	500.00
3630	-14144	-14145	-14211	-14210	MG	0.00	0.00	500.00
3630	-15274	-15275	-15341	-15340	MG	0.00	0.00	500.00
3630	-11972	-11981	-12100	-12099	MG	0.00	0.00	500.00
3630	-15472	-15473	-15539	-15538	MG	0.00	0.00	500.00
3630	-10655	-10703	-10788	-10787	MG	0.00	0.00	500.00
3630	-11073	-11074	-11139	-11138	MG	0.00	0.00	500.00
3630	-15275	-15276	-15342	-15341	MG	0.00	0.00	500.00
3630	-14078	-14079	-14143	-14142	MG	0.00	0.00	500.00
3630	-14208	-14209	-14275	-14274	MG	0.00	0.00	500.00
3630	-14956	-14955	-15021	-15022	MG	0.00	0.00	500.00
3630	-10442	-10443	-10504	-10503	MG	0.00	0.00	500.00
3630	-10502	-10503	-10618	-10617	MG	0.00	0.00	500.00
3630	-15737	-15738	-15804	-15803	MG	0.00	0.00	500.00
3630	-10293	-10294	-10365	-10364	MG	0.00	0.00	500.00
3630	-12752	-12753	-12823	-12822	MG	0.00	0.00	500.00
3630	-15473	-15474	-15540	-15539	MG	0.00	0.00	500.00



3630	-15655	-15654	-15720	-15721	MG	0.00	0.00	500.00
3630	-12517	-12530	-12608	-12607	MG	0.00	0.00	500.00
3630	-16001	-16002	-16068	-16067	MG	0.00	0.00	500.00
3630	-14759	-14758	-14824	-14825	MG	0.00	0.00	500.00
3630	-15802	-15803	-15869	-15868	MG	0.00	0.00	500.00
3630	-10503	-10504	-10591	-10618	MG	0.00	0.00	500.00
3630	-15869	-15870	-15937	-15936	MG	0.00	0.00	500.00
3630	-11756	-11757	-11823	-11822	MG	0.00	0.00	500.00
3630	-13331	-13332	-13399	-13398	MG	0.00	0.00	500.00
3630	-15803	-15804	-15870	-15869	MG	0.00	0.00	500.00
3630	-15656	-15655	-15721	-15722	MG	0.00	0.00	500.00
3630	-15722	-15721	-15787	-15788	MG	0.00	0.00	500.00
3630	-10424	-10425	-10502	-10501	MG	0.00	0.00	500.00
3630	-10364	-10365	-10443	-10442	MG	0.00	0.00	500.00
3630	-14825	-14824	-14890	-14891	MG	0.00	0.00	500.00
3630	-15800	-15801	-15867	-15866	MG	0.00	0.00	500.00
3630	-15668	-15669	-15735	-15734	MG	0.00	0.00	500.00
3630	-15459	-15458	-15524	-15525	MG	0.00	0.00	500.00
3630	-15525	-15524	-15590	-15591	MG	0.00	0.00	500.00
3630	-15591	-15590	-15656	-15657	MG	0.00	0.00	500.00
3630	-14891	-14890	-14956	-14957	MG	0.00	0.00	500.00
3630	-16000	-16001	-16067	-16066	MG	0.00	0.00	500.00
3630	-15341	-15342	-15408	-15407	MG	0.00	0.00	500.00
3630	-13939	-13940	-14010	-14009	MG	0.00	0.00	500.00
3630	-13471	-13472	-13542	-13541	MG	0.00	0.00	500.00
3630	-13470	-13471	-13541	-13540	MG	0.00	0.00	500.00
3630	-16199	-16200	-16266	-16265	MG	0.00	0.00	500.00
3630	-15073	-15074	-15144	-15143	MG	0.00	0.00	500.00
3630	-15074	-15075	-15145	-15144	MG	0.00	0.00	500.00
3630	-14876	-14877	-14943	-14942	MG	0.00	0.00	500.00
3630	-15671	-15672	-15738	-15737	MG	0.00	0.00	500.00
3630	-15736	-15737	-15803	-15802	MG	0.00	0.00	500.00
3630	-15866	-15867	-15934	-15933	MG	0.00	0.00	500.00
3630	-15539	-15540	-15606	-15605	MG	0.00	0.00	500.00
3630	-15604	-15605	-15671	-15670	MG	0.00	0.00	500.00
3630	-13055	-13056	-13118	-13119	MG	0.00	0.00	500.00
3630	-12680	-12681	-12752	-12751	MG	0.00	0.00	500.00
3630	-14678	-14679	-14745	-14744	MG	0.00	0.00	500.00
3630	-12529	-12517	-12607	-12606	MG	0.00	0.00	500.00
3630	-11269	-11270	-11342	-11341	MG	0.00	0.00	500.00
3630	-14875	-14876	-14942	-14941	MG	0.00	0.00	500.00
3630	-11885	-11886	-11981	-11972	MG	0.00	0.00	500.00
3630	-14692	-14691	-14757	-14758	MG	0.00	0.00	500.00
3630	-14143	-14144	-14210	-14209	MG	0.00	0.00	500.00
3630	-16067	-16068	-16134	-16133	MG	0.00	0.00	500.00
3630	-11754	-11755	-11821	-11820	MG	0.00	0.00	500.00
3630	-10704	-10705	-10790	-10789	MG	0.00	0.00	500.00
3630	-12751	-12752	-12822	-12821	MG	0.00	0.00	500.00
3630	-14064	-14080	-14145	-14144	MG	0.00	0.00	500.00
3630	-14013	-14012	-14081	-14066	MG	0.00	0.00	500.00
3630	-14273	-14274	-14340	-14339	MG	0.00	0.00	500.00
3630	-15071	-15072	-15142	-15141	MG	0.00	0.00	500.00
3630	-12378	-12379	-12445	-12444	MG	0.00	0.00	500.00
3630	-12442	-12443	-12517	-12529	MG	0.00	0.00	500.00
3630	-15867	-15868	-15935	-15934	MG	0.00	0.00	500.00
3630	-13870	-13871	-13939	-13938	MG	0.00	0.00	500.00
3630	-13673	-13674	-13740	-13739	MG	0.00	0.00	500.00
3630	-13738	-13739	-13805	-13804	MG	0.00	0.00	500.00
3630	-12066	-12099	-12161	-12145	MG	0.00	0.00	500.00
3630	-13739	-13740	-13806	-13805	MG	0.00	0.00	500.00
3630	-13607	-13608	-13674	-13673	MG	0.00	0.00	500.00
3630	-13399	-13400	-13472	-13471	MG	0.00	0.00	500.00
3630	-15945	-15944	-16010	-16011	MG	0.00	0.00	500.00
3630	-15273	-15274	-15340	-15339	MG	0.00	0.00	500.00
3630	-11755	-11756	-11822	-11821	MG	0.00	0.00	500.00
3630	-11820	-11821	-11867	-11884	MG	0.00	0.00	500.00
3630	-14473	-14474	-14540	-14539	MG	0.00	0.00	500.00
3630	-13332	-13333	-13400	-13399	MG	0.00	0.00	500.00
3630	-12099	-12100	-12186	-12161	MG	0.00	0.00	500.00
3630	-14090	-14089	-14157	-14158	MG	0.00	0.00	500.00
3630	-11270	-11271	-11343	-11342	MG	0.00	0.00	500.00
3630	-16332	-16333	-16399	-16398	MG	0.00	0.00	500.00
3630	-13936	-13937	-14007	-14006	MG	0.00	0.00	500.00
3630	-15589	-15588	-15654	-15655	MG	0.00	0.00	500.00
3630	-14225	-14224	-14290	-14291	MG	0.00	0.00	500.00
3630	-12824	-12825	-12895	-12894	MG	0.00	0.00	500.00
3630	-12893	-12894	-12976	-12975	MG	0.00	0.00	500.00
3630	-11204	-11205	-11271	-11270	MG	0.00	0.00	500.00
3630	-15143	-15144	-15208	-15207	MG	0.00	0.00	500.00

3630	-16134	-16135	-16201	-16200	MG	0.00	0.00	500.00
3630	-15935	-15936	-16002	-16001	MG	0.00	0.00	500.00
3630	-10703	-10704	-10789	-10788	MG	0.00	0.00	500.00
3630	-16002	-16003	-16069	-16068	MG	0.00	0.00	500.00
3630	-11616	-11617	-11689	-11688	MG	0.00	0.00	500.00
3630	-11476	-11477	-11547	-11546	MG	0.00	0.00	500.00
3630	-11340	-11341	-11407	-11406	MG	0.00	0.00	500.00
3630	-11202	-11203	-11269	-11268	MG	0.00	0.00	500.00
3630	-12239	-12240	-12312	-12311	MG	0.00	0.00	500.00
3630	-12310	-12311	-12379	-12378	MG	0.00	0.00	500.00
3630	-15406	-15407	-15473	-15472	MG	0.00	0.00	500.00
3630	-12100	-12036	-12162	-12186	MG	0.00	0.00	500.00
3630	-12161	-12186	-12239	-12238	MG	0.00	0.00	500.00
3630	-12186	-12162	-12240	-12239	MG	0.00	0.00	500.00
3630	-14284	-14283	-14349	-14350	MG	0.00	0.00	500.00
3630	-14283	-14282	-14348	-14349	MG	0.00	0.00	500.00
3630	-15536	-15537	-15603	-15602	MG	0.00	0.00	500.00
3630	-14957	-14956	-15022	-15023	MG	0.00	0.00	500.00
3630	-15340	-15341	-15407	-15406	MG	0.00	0.00	500.00
3630	-15144	-15145	-15209	-15208	MG	0.00	0.00	500.00
3630	-11619	-11620	-11692	-11691	MG	0.00	0.00	500.00
3630	-14158	-14157	-14223	-14224	MG	0.00	0.00	500.00
3630	-12975	-12976	-13055	-13054	MG	0.00	0.00	500.00
3630	-13117	-13129	-13197	-13196	MG	0.00	0.00	500.00
3630	-13539	-13540	-13606	-13605	MG	0.00	0.00	500.00
3630	-13604	-13605	-13671	-13670	MG	0.00	0.00	500.00
3630	-14339	-14340	-14406	-14405	MG	0.00	0.00	500.00
3630	-12976	-12963	-13056	-13055	MG	0.00	0.00	500.00
3630	-13197	-13198	-13264	-13263	MG	0.00	0.00	500.00
3630	-14077	-14078	-14142	-14141	MG	0.00	0.00	500.00
3630	-14346	-14345	-14411	-14412	MG	0.00	0.00	500.00
3630	-13054	-13055	-13129	-13117	MG	0.00	0.00	500.00
3630	-14677	-14678	-14744	-14743	MG	0.00	0.00	500.00
3630	-13085	-13117	-13196	-13195	MG	0.00	0.00	500.00
3630	-13194	-13195	-13261	-13260	MG	0.00	0.00	500.00
3630	-11268	-11269	-11341	-11340	MG	0.00	0.00	500.00
3630	-14743	-14744	-14810	-14809	MG	0.00	0.00	500.00
3630	-11072	-11073	-11138	-11137	MG	0.00	0.00	500.00
3630	-15007	-15008	-15074	-15073	MG	0.00	0.00	500.00
3630	-15458	-15457	-15523	-15524	MG	0.00	0.00	500.00
3630	-12892	-12893	-12975	-12974	MG	0.00	0.00	500.00
3630	-16263	-16264	-16330	-16329	MG	0.00	0.00	500.00
3630	-16264	-16265	-16331	-16330	MG	0.00	0.00	500.00
3630	-16066	-16067	-16133	-16132	MG	0.00	0.00	500.00
3630	-16131	-16132	-16198	-16197	MG	0.00	0.00	500.00
3630	-16132	-16133	-16199	-16198	MG	0.00	0.00	500.00
3630	-15934	-15935	-16001	-16000	MG	0.00	0.00	500.00
3630	-15999	-16000	-16066	-16065	MG	0.00	0.00	500.00
3630	-16119	-16118	-16184	-16185	MG	0.00	0.00	500.00
3630	-16185	-16184	-16250	-16251	MG	0.00	0.00	500.00
3630	-16251	-16250	-16316	-16317	MG	0.00	0.00	500.00
3630	-16317	-16316	-16382	-16383	MG	0.00	0.00	500.00
3630	-15669	-15670	-15736	-15735	MG	0.00	0.00	500.00
3630	-12309	-12310	-12378	-12377	MG	0.00	0.00	500.00
3630	-13876	-13944	-13945	-13877	MG	0.00	0.00	500.00
3630	-15537	-15538	-15604	-15603	MG	0.00	0.00	500.00
3630	-15924	-15990	-15991	-15925	MG	0.00	0.00	500.00
3630	-15603	-15604	-15670	-15669	MG	0.00	0.00	500.00
3630	-14159	-14158	-14224	-14225	MG	0.00	0.00	500.00
3630	-15470	-15471	-15537	-15536	MG	0.00	0.00	500.00
3630	-15471	-15472	-15538	-15537	MG	0.00	0.00	500.00
3630	-16318	-16317	-16383	-16384	MG	0.00	0.00	500.00
3630	-14341	-14342	-14408	-14407	MG	0.00	0.00	500.00
3630	-11617	-11618	-11690	-11689	MG	0.00	0.00	500.00
3630	-14471	-14472	-14538	-14537	MG	0.00	0.00	500.00
3630	-11689	-11690	-11756	-11755	MG	0.00	0.00	500.00
3630	-11205	-11206	-11272	-11271	MG	0.00	0.00	500.00
3630	-15006	-15007	-15073	-15072	MG	0.00	0.00	500.00
3630	-16121	-16120	-16186	-16187	MG	0.00	0.00	500.00
3630	-15072	-15073	-15143	-15142	MG	0.00	0.00	500.00
3630	-14874	-14875	-14941	-14940	MG	0.00	0.00	500.00
3630	-14939	-14940	-15006	-15005	MG	0.00	0.00	500.00
3630	-16200	-16201	-16267	-16266	MG	0.00	0.00	500.00
3630	-12683	-12684	-12755	-12754	MG	0.00	0.00	500.00
3630	-16266	-16267	-16333	-16332	MG	0.00	0.00	500.00
3630	-12754	-12755	-12825	-12824	MG	0.00	0.00	500.00
3630	-12531	-12532	-12610	-12609	MG	0.00	0.00	500.00
3630	-12608	-12609	-12683	-12682	MG	0.00	0.00	500.00
3630	-15936	-15937	-16003	-16002	MG	0.00	0.00	500.00

3630	-14472	-14473	-14539	-14538	MG	0.00	0.00	500.00
3630	-14537	-14538	-14608	-14607	MG	0.00	0.00	500.00
3630	-14538	-14539	-14609	-14608	MG	0.00	0.00	500.00
3630	-15868	-15869	-15936	-15935	MG	0.00	0.00	500.00
3630	-14405	-14406	-14472	-14471	MG	0.00	0.00	500.00
3630	-13879	-13947	-13948	-13880	MG	0.00	0.00	500.00
3630	-13272	-13341	-13342	-13273	MG	0.00	0.00	500.00
3630	-15156	-15155	-15221	-15222	MG	0.00	0.00	500.00
3630	-15222	-15221	-15288	-15289	MG	0.00	0.00	500.00
3630	-16123	-16122	-16188	-16189	MG	0.00	0.00	500.00
3630	-14141	-14142	-14208	-14207	MG	0.00	0.00	500.00
3630	-16255	-16254	-16320	-16321	MG	0.00	0.00	500.00
3630	-16321	-16320	-16386	-16387	MG	0.00	0.00	500.00
3630	-13748	-13814	-13815	-13749	MG	0.00	0.00	500.00
3630	-14007	-14008	-14079	-14078	MG	0.00	0.00	500.00
3630	-15089	-15088	-15156	-15157	MG	0.00	0.00	500.00
3630	-13868	-13869	-13937	-13936	MG	0.00	0.00	500.00
3630	-13869	-13870	-13938	-13937	MG	0.00	0.00	500.00
3630	-13671	-13672	-13738	-13737	MG	0.00	0.00	500.00
3630	-15208	-15209	-15276	-15275	MG	0.00	0.00	500.00
3630	-15008	-15009	-15075	-15074	MG	0.00	0.00	500.00
3630	-13952	-13951	-14021	-14022	MG	0.00	0.00	500.00
3630	-13950	-13949	-14019	-14020	MG	0.00	0.00	500.00
3630	-13605	-13606	-13672	-13671	MG	0.00	0.00	500.00
3630	-14207	-14208	-14274	-14273	MG	0.00	0.00	500.00
3630	-14942	-14943	-15009	-15008	MG	0.00	0.00	500.00
3630	-14744	-14745	-14811	-14810	MG	0.00	0.00	500.00
3630	-11271	-11272	-11344	-11343	MG	0.00	0.00	500.00
3630	-14610	-14611	-14679	-14678	MG	0.00	0.00	500.00
3630	-13944	-13943	-14013	-14014	MG	0.00	0.00	500.00
3630	-13943	-13942	-14012	-14013	MG	0.00	0.00	500.00
3630	-16265	-16266	-16332	-16331	MG	0.00	0.00	500.00
3630	-14474	-14475	-14541	-14540	MG	0.00	0.00	500.00
3630	-14609	-14610	-14678	-14677	MG	0.00	0.00	500.00
3630	-16133	-16134	-16200	-16199	MG	0.00	0.00	500.00
3630	-12891	-12892	-12974	-12973	MG	0.00	0.00	500.00
3630	-15928	-15927	-15993	-15994	MG	0.00	0.00	500.00
3630	-14408	-14409	-14475	-14474	MG	0.00	0.00	500.00
3630	-14210	-14211	-14277	-14276	MG	0.00	0.00	500.00
3630	-14275	-14276	-14342	-14341	MG	0.00	0.00	500.00
3630	-14276	-14277	-14343	-14342	MG	0.00	0.00	500.00
3630	-13619	-13685	-13686	-13620	MG	0.00	0.00	500.00
3630	-16324	-16323	-16389	-16390	MG	0.00	0.00	500.00
3630	-14091	-14090	-14158	-14159	MG	0.00	0.00	500.00
3630	-12607	-12608	-12682	-12681	MG	0.00	0.00	500.00
3630	-14008	-14009	-14064	-14079	MG	0.00	0.00	500.00
3630	-14009	-14010	-14080	-14064	MG	0.00	0.00	500.00
3630	-13805	-13806	-13872	-13871	MG	0.00	0.00	500.00
3630	-14086	-14085	-14153	-14154	MG	0.00	0.00	500.00
3630	-13871	-13872	-13940	-13939	MG	0.00	0.00	500.00
3630	-14084	-14083	-14151	-14152	MG	0.00	0.00	500.00
3630	-14083	-14067	-14150	-14151	MG	0.00	0.00	500.00
3630	-14067	-14082	-14149	-14150	MG	0.00	0.00	500.00
3630	-13541	-13542	-13608	-13607	MG	0.00	0.00	500.00
3630	-15405	-15406	-15472	-15471	MG	0.00	0.00	500.00
3630	-11980	-12010	-12066	-12098	MG	0.00	0.00	500.00
3630	-12010	-11972	-12099	-12066	MG	0.00	0.00	500.00
3630	-14157	-14156	-14222	-14223	MG	0.00	0.00	500.00
3630	-14156	-14155	-14221	-14222	MG	0.00	0.00	500.00
3630	-13263	-13264	-13333	-13332	MG	0.00	0.00	500.00
3630	-14154	-14153	-14219	-14220	MG	0.00	0.00	500.00
3630	-15924	-15923	-15989	-15990	MG	0.00	0.00	500.00
3630	-13129	-13118	-13198	-13197	MG	0.00	0.00	500.00
3630	-13196	-13197	-13263	-13262	MG	0.00	0.00	500.00
3630	-14150	-14149	-14215	-14216	MG	0.00	0.00	500.00
3630	-14149	-14148	-14214	-14215	MG	0.00	0.00	500.00
3630	-14148	-14147	-14213	-14214	MG	0.00	0.00	500.00
3630	-11406	-11407	-11477	-11476	MG	0.00	0.00	500.00
3630	-11407	-11408	-11478	-11477	MG	0.00	0.00	500.00
3630	-11203	-11204	-11270	-11269	MG	0.00	0.00	500.00
3630	-12894	-12895	-12963	-12976	MG	0.00	0.00	500.00
3630	-16261	-16260	-16326	-16327	MG	0.00	0.00	500.00
3630	-14675	-14676	-14742	-14741	MG	0.00	0.00	500.00
3630	-11342	-11343	-11409	-11408	MG	0.00	0.00	500.00
3630	-11478	-11479	-11549	-11548	MG	0.00	0.00	500.00
3630	-11618	-11619	-11691	-11690	MG	0.00	0.00	500.00
3630	-12609	-12610	-12684	-12683	MG	0.00	0.00	500.00
3630	-12379	-12380	-12446	-12445	MG	0.00	0.00	500.00
3630	-12444	-12445	-12531	-12530	MG	0.00	0.00	500.00

3630	-12445	-12446	-12532	-12531	MG	0.00	0.00	500.00
3630	-10809	-10859	-10930	-10929	MG	0.00	0.00	500.00
3630	-10632	-10617	-10703	-10655	MG	0.00	0.00	500.00
3630	-12311	-12312	-12380	-12379	MG	0.00	0.00	500.00
3630	-15058	-15057	-15123	-15124	MG	0.00	0.00	500.00
3630	-15124	-15123	-15191	-15192	MG	0.00	0.00	500.00
3630	-10500	-10501	-10632	-10590	MG	0.00	0.00	500.00
3630	-10501	-10502	-10617	-10632	MG	0.00	0.00	500.00
3630	-10291	-10292	-10363	-10362	MG	0.00	0.00	500.00
3630	-11981	-11982	-12036	-12100	MG	0.00	0.00	500.00
3630	-15404	-15405	-15471	-15470	MG	0.00	0.00	500.00
3630	-15023	-15022	-15088	-15089	MG	0.00	0.00	500.00
3630	-12530	-12531	-12609	-12608	MG	0.00	0.00	500.00
3630	-12682	-12683	-12754	-12753	MG	0.00	0.00	500.00
3630	-12823	-12824	-12894	-12893	MG	0.00	0.00	500.00
3630	-11691	-11692	-11758	-11757	MG	0.00	0.00	500.00
3630	-11479	-11480	-11550	-11549	MG	0.00	0.00	500.00
3630	-11548	-11549	-11619	-11618	MG	0.00	0.00	500.00
3630	-13951	-13950	-14020	-14021	MG	0.00	0.00	500.00
3630	-11343	-11344	-11410	-11409	MG	0.00	0.00	500.00
3630	-11408	-11409	-11479	-11478	MG	0.00	0.00	500.00
3630	-11409	-11410	-11480	-11479	MG	0.00	0.00	500.00
3630	-14347	-14346	-14412	-14413	MG	0.00	0.00	500.00
3630	-13936	-13935	-14005	-14006	MG	0.00	0.00	500.00
3630	-13942	-13941	-14011	-14012	MG	0.00	0.00	500.00
3630	-11074	-11075	-11140	-11139	MG	0.00	0.00	500.00
3630	-11138	-11139	-11205	-11204	MG	0.00	0.00	500.00
3630	-14024	-14023	-14090	-14091	MG	0.00	0.00	500.00
3630	-10931	-10932	-10997	-10996	MG	0.00	0.00	500.00
3630	-14539	-14540	-14610	-14609	MG	0.00	0.00	500.00
3630	-12753	-12754	-12824	-12823	MG	0.00	0.00	500.00
3630	-14407	-14408	-14474	-14473	MG	0.00	0.00	500.00
3630	-10859	-10860	-10931	-10930	MG	0.00	0.00	500.00
3630	-10860	-10861	-10932	-10931	MG	0.00	0.00	500.00
3630	-10618	-10591	-10705	-10704	MG	0.00	0.00	500.00
3630	-10289	3501	-10359	-10360	MG	0.00	0.00	500.00
3630	-10361	-10360	-10441	-10423	MG	0.00	0.00	500.00
3630	-10360	-10359	-10440	-10441	MG	0.00	0.00	500.00
3630	-10423	-10441	-10499	-10500	MG	0.00	0.00	500.00
3630	-14486	-14485	-14551	-14552	MG	0.00	0.00	500.00
3630	-14485	-14484	-14550	-14551	MG	0.00	0.00	500.00
3630	-10363	-10364	-10442	-10425	MG	0.00	0.00	500.00
3630	-10590	-10589	-10701	-10702	MG	0.00	0.00	500.00
3630	-10589	-10588	-10700	-10701	MG	0.00	0.00	500.00
3630	-10702	-10701	-10785	-10786	MG	0.00	0.00	500.00
3630	-10701	-10700	-10784	-10785	MG	0.00	0.00	500.00
3630	-10786	-10785	-10843	-10858	MG	0.00	0.00	500.00
3630	-10785	-10784	-10842	-10843	MG	0.00	0.00	500.00
3630	-10858	-10843	-10928	-10893	MG	0.00	0.00	500.00
3630	-15602	-15603	-15669	-15668	MG	0.00	0.00	500.00
3630	-16054	-16053	-16119	-16120	MG	0.00	0.00	500.00
3630	-14552	-14551	-14621	-14622	MG	0.00	0.00	500.00
3630	-10993	-10992	-11070	-11071	MG	0.00	0.00	500.00
3630	-10992	-10991	-11069	-11070	MG	0.00	0.00	500.00
3630	-13259	-13258	-13327	-13328	MG	0.00	0.00	500.00
3630	-13328	-13327	-13394	-13395	MG	0.00	0.00	500.00
3630	-15339	-15340	-15406	-15405	MG	0.00	0.00	500.00
3630	-14153	-14152	-14218	-14219	MG	0.00	0.00	500.00
3630	-15205	-15206	-15273	-15272	MG	0.00	0.00	500.00
3630	-15206	-15207	-15274	-15273	MG	0.00	0.00	500.00
3630	-16055	-16054	-16120	-16121	MG	0.00	0.00	500.00
3630	-11889	-12011	-11983	-11890	MG	0.00	0.00	500.00
3630	-13801	-13800	-13866	-13867	MG	0.00	0.00	500.00
3630	-13867	-13866	-13934	-13935	MG	0.00	0.00	500.00
3630	-13260	-13259	-13328	-13329	MG	0.00	0.00	500.00
3630	-13329	-13328	-13395	-13396	MG	0.00	0.00	500.00
3630	-13396	-13395	-13467	-13468	MG	0.00	0.00	500.00
3630	-13468	-13467	-13537	-13538	MG	0.00	0.00	500.00
3630	-16068	-16069	-16135	-16134	MG	0.00	0.00	500.00
3630	-14608	-14609	-14677	-14676	MG	0.00	0.00	500.00
3630	-15326	-15325	-15391	-15392	MG	0.00	0.00	500.00
3630	-14676	-14677	-14743	-14742	MG	0.00	0.00	500.00
3630	-13802	-13801	-13867	-13868	MG	0.00	0.00	500.00
3630	-13868	-13867	-13935	-13936	MG	0.00	0.00	500.00
3630	-11753	-11752	-11818	-11819	MG	0.00	0.00	500.00
3630	-11819	-11818	-11882	-11883	MG	0.00	0.00	500.00
3630	-11883	-11882	-12009	-11971	MG	0.00	0.00	500.00
3630	-11971	-12009	-12097	-12065	MG	0.00	0.00	500.00
3630	-12065	-12097	-12160	-12119	MG	0.00	0.00	500.00

3630	-15991	-15990	-16056	-16057	MG	0.00	0.00	500.00
3630	-14274	-14275	-14341	-14340	MG	0.00	0.00	500.00
3630	-10839	-10918	-10919	-10853	MG	0.00	0.00	500.00
3630	-12375	-12374	-12440	-12441	MG	0.00	0.00	500.00
3630	-12441	-12440	-12547	-12528	MG	0.00	0.00	500.00
3630	-11754	-11753	-11819	-11820	MG	0.00	0.00	500.00
3630	-11820	-11819	-11883	-11884	MG	0.00	0.00	500.00
3630	-11884	-11883	-11971	-11980	MG	0.00	0.00	500.00
3630	-11980	-11971	-12065	-12098	MG	0.00	0.00	500.00
3630	-12098	-12065	-12119	-12113	MG	0.00	0.00	500.00
3630	-15157	-15156	-15222	-15223	MG	0.00	0.00	500.00
3630	-15207	-15208	-15275	-15274	MG	0.00	0.00	500.00
3630	-13954	-13953	-14023	-14024	MG	0.00	0.00	500.00
3630	-13737	-13738	-13804	-13803	MG	0.00	0.00	500.00
3630	-16256	-16255	-16321	-16322	MG	0.00	0.00	500.00
3630	-16322	-16321	-16387	-16388	MG	0.00	0.00	500.00
3630	-12605	-12604	-12678	-12679	MG	0.00	0.00	500.00
3630	-14941	-14942	-15008	-15007	MG	0.00	0.00	500.00
3630	-12750	-12749	-12819	-12820	MG	0.00	0.00	500.00
3630	-13469	-13470	-13540	-13539	MG	0.00	0.00	500.00
3630	-14809	-14810	-14876	-14875	MG	0.00	0.00	500.00
3630	-14810	-14811	-14877	-14876	MG	0.00	0.00	500.00
3630	-13330	-13331	-13398	-13397	MG	0.00	0.00	500.00
3630	-13552	-13618	-13619	-13553	MG	0.00	0.00	500.00
3630	-13618	-13684	-13685	-13619	MG	0.00	0.00	500.00
3630	-13195	-13196	-13262	-13261	MG	0.00	0.00	500.00
3630	-12822	-12823	-12893	-12892	MG	0.00	0.00	500.00
3630	-14540	-14541	-14611	-14610	MG	0.00	0.00	500.00
3630	-14342	-14343	-14409	-14408	MG	0.00	0.00	500.00
3630	-12821	-12820	-12890	-12891	MG	0.00	0.00	500.00
3630	-15994	-15993	-16059	-16060	MG	0.00	0.00	500.00
3630	-16060	-16059	-16125	-16126	MG	0.00	0.00	500.00
3630	-12681	-12682	-12753	-12752	MG	0.00	0.00	500.00
3630	-13553	-13619	-13620	-13554	MG	0.00	0.00	500.00
3630	-13194	-13193	-13259	-13260	MG	0.00	0.00	500.00
3630	-11070	-11069	-11134	-11135	MG	0.00	0.00	500.00
3630	-12606	-12607	-12681	-12680	MG	0.00	0.00	500.00
3630	-11201	-11200	-11266	-11267	MG	0.00	0.00	500.00
3630	-12377	-12378	-12444	-12443	MG	0.00	0.00	500.00
3630	-15929	-15928	-15994	-15995	MG	0.00	0.00	500.00
3630	-12443	-12444	-12530	-12517	MG	0.00	0.00	500.00
3630	-12237	-12238	-12310	-12309	MG	0.00	0.00	500.00
3630	-14085	-14084	-14152	-14153	MG	0.00	0.00	500.00
3630	-16193	-16192	-16258	-16259	MG	0.00	0.00	500.00
3630	-16259	-16258	-16324	-16325	MG	0.00	0.00	500.00
3630	-12113	-12145	-12237	-12236	MG	0.00	0.00	500.00
3630	-12145	-12161	-12238	-12237	MG	0.00	0.00	500.00
3630	-13606	-13607	-13673	-13672	MG	0.00	0.00	500.00
3630	-11268	-11267	-11339	-11340	MG	0.00	0.00	500.00
3630	-11340	-11339	-11405	-11406	MG	0.00	0.00	500.00
3630	-15996	-15995	-16061	-16062	MG	0.00	0.00	500.00
3630	-16062	-16061	-16127	-16128	MG	0.00	0.00	500.00
3630	-11821	-11822	-11885	-11867	MG	0.00	0.00	500.00
3630	-16194	-16193	-16259	-16260	MG	0.00	0.00	500.00
3630	-11688	-11689	-11755	-11754	MG	0.00	0.00	500.00
3630	-16326	-16325	-16391	-16392	MG	0.00	0.00	500.00
3630	-11477	-11478	-11548	-11547	MG	0.00	0.00	500.00
3630	-11546	-11547	-11617	-11616	MG	0.00	0.00	500.00
3630	-12036	-12162	-12114	-12067	MG	0.00	0.00	500.00
3630	-11341	-11342	-11408	-11407	MG	0.00	0.00	500.00
3630	-12240	-12312	-12313	-12241	MG	0.00	0.00	500.00
3630	-12312	-12380	-12381	-12313	MG	0.00	0.00	500.00
3630	-12380	-12446	-12447	-12381	MG	0.00	0.00	500.00
3630	-16195	-16194	-16260	-16261	MG	0.00	0.00	500.00
3630	-11759	-11825	-11826	-11760	MG	0.00	0.00	500.00
3630	-16327	-16326	-16392	-16393	MG	0.00	0.00	500.00
3630	-14219	-14218	-14284	-14285	MG	0.00	0.00	500.00
3630	-14218	-14217	-14283	-14284	MG	0.00	0.00	500.00
3630	-14217	-14216	-14282	-14283	MG	0.00	0.00	500.00
3630	-10993	-10994	-11072	-11071	MG	0.00	0.00	500.00
3630	-10994	-10995	-11073	-11072	MG	0.00	0.00	500.00
3630	-10787	-10788	-10859	-10809	MG	0.00	0.00	500.00
3630	-10858	-10809	-10929	-10893	MG	0.00	0.00	500.00
3630	-12447	-12533	-12534	-12448	MG	0.00	0.00	500.00
3630	-13264	-13333	-13334	-13265	MG	0.00	0.00	500.00
3630	-10702	-10655	-10787	-10786	MG	0.00	0.00	500.00
3630	-13400	-13472	-13473	-13401	MG	0.00	0.00	500.00
3630	-13472	-13542	-13543	-13473	MG	0.00	0.00	500.00
3630	-13542	-13608	-13609	-13543	MG	0.00	0.00	500.00

3630	-13608	-13674	-13675	-13609	MG	0.00	0.00	500.00
3630	-13674	-13740	-13741	-13675	MG	0.00	0.00	500.00
3630	-13740	-13806	-13807	-13741	MG	0.00	0.00	500.00
3630	-11757	-11758	-11824	-11823	MG	0.00	0.00	500.00
3630	-15272	-15273	-15339	-15338	MG	0.00	0.00	500.00
3630	-11823	-11824	-11887	-11886	MG	0.00	0.00	500.00
3630	-14356	-14355	-14421	-14422	MG	0.00	0.00	500.00
3630	-11690	-11691	-11757	-11756	MG	0.00	0.00	500.00
3630	-13473	-13543	-13544	-13474	MG	0.00	0.00	500.00
3630	-13543	-13609	-13610	-13544	MG	0.00	0.00	500.00
3630	-13609	-13675	-13676	-13610	MG	0.00	0.00	500.00
3630	-11549	-11550	-11620	-11619	MG	0.00	0.00	500.00
3630	-14730	-14729	-14795	-14796	MG	0.00	0.00	500.00
3630	-14349	-14348	-14414	-14415	MG	0.00	0.00	500.00
3630	-14348	-14347	-14413	-14414	MG	0.00	0.00	500.00
3630	3502	-10376	-10366	-10296	MG	0.00	0.00	500.00
3630	-10365	-10443	-10444	-10375	MG	0.00	0.00	500.00
3630	-10443	-10504	-10505	-10444	MG	0.00	0.00	500.00
3630	-15279	-15278	-15344	-15345	MG	0.00	0.00	500.00
3630	-15259	-15258	-15324	-15325	MG	0.00	0.00	500.00
3630	-11139	-11140	-11206	-11205	MG	0.00	0.00	500.00
3630	-14419	-14418	-14484	-14485	MG	0.00	0.00	500.00
3630	-13750	-13816	-13817	-13751	MG	0.00	0.00	500.00
3630	-10932	-10997	-10998	-10933	MG	0.00	0.00	500.00
3630	-10789	-10790	-10861	-10860	MG	0.00	0.00	500.00
3630	-14415	-14414	-14480	-14481	MG	0.00	0.00	500.00
3630	-10375	-10444	-10426	-10376	MG	0.00	0.00	500.00
3630	-10444	-10505	-10506	-10426	MG	0.00	0.00	500.00
3630	-10505	-10553	-10541	-10506	MG	0.00	0.00	500.00
3630	-10553	-10706	-10707	-10541	MG	0.00	0.00	500.00
3630	-10706	-10791	-10792	-10707	MG	0.00	0.00	500.00
3630	-10791	-10862	-10844	-10792	MG	0.00	0.00	500.00
3630	-10862	-10933	-10934	-10844	MG	0.00	0.00	500.00
3630	-10933	-10998	-10999	-10934	MG	0.00	0.00	500.00
3630	-10998	-11076	-11077	-10999	MG	0.00	0.00	500.00
3630	-12532	-12610	-12611	-12533	MG	0.00	0.00	500.00
3630	-12610	-12684	-12685	-12611	MG	0.00	0.00	500.00
3630	-12684	-12755	-12756	-12685	MG	0.00	0.00	500.00
3630	-12755	-12825	-12826	-12756	MG	0.00	0.00	500.00
3630	-12825	-12895	-12896	-12826	MG	0.00	0.00	500.00
3630	-12895	-12963	-12977	-12896	MG	0.00	0.00	500.00
3630	-12963	-13056	-13057	-12977	MG	0.00	0.00	500.00
3630	-13056	-13118	-13119	-13057	MG	0.00	0.00	500.00
3630	-13118	-13198	-13199	-13119	MG	0.00	0.00	500.00
3630	-13198	-13264	-13265	-13199	MG	0.00	0.00	500.00
3630	-12533	-12611	-12612	-12534	MG	0.00	0.00	500.00
3630	-12611	-12685	-12686	-12612	MG	0.00	0.00	500.00
3630	-12685	-12756	-12757	-12686	MG	0.00	0.00	500.00
3630	-12756	-12826	-12827	-12757	MG	0.00	0.00	500.00
3630	-12826	-12896	-12897	-12827	MG	0.00	0.00	500.00
3630	-12896	-12977	-12964	-12897	MG	0.00	0.00	500.00
3630	-12977	-13057	-13058	-12964	MG	0.00	0.00	500.00
3630	-13057	-13119	-13120	-13058	MG	0.00	0.00	500.00
3630	-13119	-13199	-13200	-13120	MG	0.00	0.00	500.00
3630	-13199	-13265	-13266	-13200	MG	0.00	0.00	500.00
3630	-11075	-11140	-11141	-11076	MG	0.00	0.00	500.00
3630	-11140	-11206	-11207	-11141	MG	0.00	0.00	500.00
3630	-11206	-11272	-11273	-11207	MG	0.00	0.00	500.00
3630	-11272	-11344	-11345	-11273	MG	0.00	0.00	500.00
3630	-11344	-11410	-11411	-11345	MG	0.00	0.00	500.00
3630	-11410	-11480	-11481	-11411	MG	0.00	0.00	500.00
3630	-11480	-11550	-11551	-11481	MG	0.00	0.00	500.00
3630	-11550	-11620	-11621	-11551	MG	0.00	0.00	500.00
3630	-11620	-11692	-11693	-11621	MG	0.00	0.00	500.00
3630	-11692	-11758	-11759	-11693	MG	0.00	0.00	500.00
3630	-11076	-11141	-11142	-11077	MG	0.00	0.00	500.00
3630	-11141	-11207	-11208	-11142	MG	0.00	0.00	500.00
3630	-11207	-11273	-11274	-11208	MG	0.00	0.00	500.00
3630	-11273	-11345	-11346	-11274	MG	0.00	0.00	500.00
3630	-16331	-16332	-16398	-16397	MG	0.00	0.00	500.00
3630	-15022	-15021	-15087	-15088	MG	0.00	0.00	500.00
3630	-15088	-15087	-15155	-15156	MG	0.00	0.00	500.00
3630	-16329	-16330	-16396	-16395	MG	0.00	0.00	500.00
3630	-16197	-16198	-16264	-16263	MG	0.00	0.00	500.00
3630	-16065	-16066	-16132	-16131	MG	0.00	0.00	500.00
3630	-15933	-15934	-16000	-15999	MG	0.00	0.00	500.00
3630	-10292	-10293	-10364	-10363	MG	0.00	0.00	500.00
3630	-10425	-10442	-10503	-10502	MG	0.00	0.00	500.00
3630	-10617	-10618	-10704	-10703	MG	0.00	0.00	500.00

3630	-10788	-10789	-10860	-10859	MG	0.00	0.00	500.00
3630	-10930	-10931	-10996	-10995	MG	0.00	0.00	500.00
3630	-13262	-13263	-13332	-13331	MG	0.00	0.00	500.00
3630	-13342	-13409	-13410	-13343	MG	0.00	0.00	500.00
3630	-13409	-13481	-13482	-13410	MG	0.00	0.00	500.00
3630	-13736	-13737	-13803	-13802	MG	0.00	0.00	500.00
3630	-13804	-13805	-13871	-13870	MG	0.00	0.00	500.00
3630	-10290	-10291	-10362	-10361	MG	0.00	0.00	500.00
3630	-10423	-10424	-10501	-10500	MG	0.00	0.00	500.00
3630	-10590	-10632	-10655	-10702	MG	0.00	0.00	500.00
3630	-10786	-10787	-10809	-10858	MG	0.00	0.00	500.00
3630	-10893	-10929	-10994	-10993	MG	0.00	0.00	500.00
3630	-15141	-15142	-15206	-15205	MG	0.00	0.00	500.00
3630	-13261	-13262	-13331	-13330	MG	0.00	0.00	500.00
3630	-13329	-13330	-13397	-13396	MG	0.00	0.00	500.00
3630	-14741	-14742	-14808	-14807	MG	0.00	0.00	500.00
3630	-14607	-14608	-14676	-14675	MG	0.00	0.00	500.00
3630	-13802	-13803	-13869	-13868	MG	0.00	0.00	500.00
3630	-13670	-13671	-13737	-13736	MG	0.00	0.00	500.00
3630	-13538	-13539	-13605	-13604	MG	0.00	0.00	500.00
3630	-13396	-13397	-13469	-13468	MG	0.00	0.00	500.00
3630	-13260	-13261	-13330	-13329	MG	0.00	0.00	500.00
3630	-12376	-12377	-12443	-12442	MG	0.00	0.00	500.00
3630	-12236	-12237	-12309	-12308	MG	0.00	0.00	500.00
3630	-12098	-12066	-12145	-12113	MG	0.00	0.00	500.00
3630	-11884	-11867	-12010	-11980	MG	0.00	0.00	500.00
3630	-15338	-15337	-15403	-15404	MG	0.00	0.00	500.00
3630	-15404	-15403	-15469	-15470	MG	0.00	0.00	500.00
3630	-15470	-15469	-15535	-15536	MG	0.00	0.00	500.00
3630	-15536	-15535	-15601	-15602	MG	0.00	0.00	500.00
3630	-15602	-15601	-15667	-15668	MG	0.00	0.00	500.00
3630	-15668	-15667	-15733	-15734	MG	0.00	0.00	500.00
3630	-15734	-15733	-15799	-15800	MG	0.00	0.00	500.00
3630	-15800	-15799	-15865	-15866	MG	0.00	0.00	500.00
3630	-15866	-15865	-15932	-15933	MG	0.00	0.00	500.00
3630	-12308	-12309	-12377	-12376	MG	0.00	0.00	500.00
3630	-15998	-15997	-16063	-16064	MG	0.00	0.00	500.00
3630	-16064	-16063	-16129	-16130	MG	0.00	0.00	500.00
3630	-16130	-16129	-16195	-16196	MG	0.00	0.00	500.00
3630	-16196	-16195	-16261	-16262	MG	0.00	0.00	500.00
3630	-16262	-16261	-16327	-16328	MG	0.00	0.00	500.00
3630	-16328	-16327	-16393	-16394	MG	0.00	0.00	500.00
3630	-13938	-13939	-14009	-14008	MG	0.00	0.00	500.00
3630	-14079	-14064	-14144	-14143	MG	0.00	0.00	500.00
3630	-14209	-14210	-14276	-14275	MG	0.00	0.00	500.00
3630	-15933	-15932	-15998	-15999	MG	0.00	0.00	500.00
3630	-15999	-15998	-16064	-16065	MG	0.00	0.00	500.00
3630	-16065	-16064	-16130	-16131	MG	0.00	0.00	500.00
3630	-16131	-16130	-16196	-16197	MG	0.00	0.00	500.00
3630	-16197	-16196	-16262	-16263	MG	0.00	0.00	500.00
3630	-16263	-16262	-16328	-16329	MG	0.00	0.00	500.00
3630	-16329	-16328	-16394	-16395	MG	0.00	0.00	500.00
3630	-13128	-13085	-13195	-13194	MG	0.00	0.00	500.00
3630	-12973	-12974	-13053	-13052	MG	0.00	0.00	500.00
3630	-12821	-12822	-12892	-12891	MG	0.00	0.00	500.00
3630	-14606	-14605	-14673	-14674	MG	0.00	0.00	500.00
3630	-14674	-14673	-14739	-14740	MG	0.00	0.00	500.00
3630	-14740	-14739	-14805	-14806	MG	0.00	0.00	500.00
3630	-14806	-14805	-14871	-14872	MG	0.00	0.00	500.00
3630	-14872	-14871	-14937	-14938	MG	0.00	0.00	500.00
3630	-14938	-14937	-15003	-15004	MG	0.00	0.00	500.00
3630	-15004	-15003	-15069	-15070	MG	0.00	0.00	500.00
3630	-15070	-15069	-15129	-15140	MG	0.00	0.00	500.00
3630	-15140	-15129	-15203	-15204	MG	0.00	0.00	500.00
3630	-15204	-15203	-15270	-15271	MG	0.00	0.00	500.00
3630	-14607	-14606	-14674	-14675	MG	0.00	0.00	500.00
3630	-14675	-14674	-14740	-14741	MG	0.00	0.00	500.00
3630	-14741	-14740	-14806	-14807	MG	0.00	0.00	500.00
3630	-14807	-14806	-14872	-14873	MG	0.00	0.00	500.00
3630	-14873	-14872	-14938	-14939	MG	0.00	0.00	500.00
3630	-14939	-14938	-15004	-15005	MG	0.00	0.00	500.00
3630	-15005	-15004	-15070	-15071	MG	0.00	0.00	500.00
3630	-15071	-15070	-15140	-15141	MG	0.00	0.00	500.00
3630	-15141	-15140	-15204	-15205	MG	0.00	0.00	500.00
3630	-15205	-15204	-15271	-15272	MG	0.00	0.00	500.00
3630	-13941	-13940	-14010	-14011	MG	0.00	0.00	500.00
3630	-11822	-11823	-11886	-11885	MG	0.00	0.00	500.00
3630	-14011	-14010	-14080	-14065	MG	0.00	0.00	500.00
3630	-14081	-14065	-14146	-14147	MG	0.00	0.00	500.00

3630	-14065	-14080	-14145	-14146	MG	0.00	0.00	500.00
3630	-14147	-14146	-14212	-14213	MG	0.00	0.00	500.00
3630	-14146	-14145	-14211	-14212	MG	0.00	0.00	500.00
3630	-14213	-14212	-14278	-14279	MG	0.00	0.00	500.00
3630	-14212	-14211	-14277	-14278	MG	0.00	0.00	500.00
3630	-14279	-14278	-14344	-14345	MG	0.00	0.00	500.00
3630	-14278	-14277	-14343	-14344	MG	0.00	0.00	500.00
3630	-14345	-14344	-14410	-14411	MG	0.00	0.00	500.00
3630	-14344	-14343	-14409	-14410	MG	0.00	0.00	500.00
3630	-14411	-14410	-14476	-14477	MG	0.00	0.00	500.00
3630	-14410	-14409	-14475	-14476	MG	0.00	0.00	500.00
3630	-14477	-14476	-14542	-14543	MG	0.00	0.00	500.00
3630	-14476	-14475	-14541	-14542	MG	0.00	0.00	500.00
3630	-14543	-14542	-14612	-14613	MG	0.00	0.00	500.00
3630	-14542	-14541	-14611	-14612	MG	0.00	0.00	500.00
3630	-10995	-10996	-11074	-11073	MG	0.00	0.00	500.00
3630	-10996	-10997	-11075	-11074	MG	0.00	0.00	500.00
3630	-14416	-14415	-14481	-14482	MG	0.00	0.00	500.00
3630	-15475	-15474	-15540	-15541	MG	0.00	0.00	500.00
3630	-15541	-15540	-15606	-15607	MG	0.00	0.00	500.00
3630	-15607	-15606	-15672	-15673	MG	0.00	0.00	500.00
3630	-15673	-15672	-15738	-15739	MG	0.00	0.00	500.00
3630	-15739	-15738	-15804	-15805	MG	0.00	0.00	500.00
3630	-15805	-15804	-15870	-15871	MG	0.00	0.00	500.00
3630	-15871	-15870	-15937	-15938	MG	0.00	0.00	500.00
3630	-15278	-15277	-15343	-15344	MG	0.00	0.00	500.00
3630	-15344	-15343	-15409	-15410	MG	0.00	0.00	500.00
3630	-15410	-15409	-15475	-15476	MG	0.00	0.00	500.00
3630	-15476	-15475	-15541	-15542	MG	0.00	0.00	500.00
3630	-15542	-15541	-15607	-15608	MG	0.00	0.00	500.00
3630	-15608	-15607	-15673	-15674	MG	0.00	0.00	500.00
3630	-15674	-15673	-15739	-15740	MG	0.00	0.00	500.00
3630	-15740	-15739	-15805	-15806	MG	0.00	0.00	500.00
3630	-15806	-15805	-15871	-15872	MG	0.00	0.00	500.00
3630	-15872	-15871	-15938	-15939	MG	0.00	0.00	500.00
3630	-15938	-15937	-16003	-16004	MG	0.00	0.00	500.00
3630	-16004	-16003	-16069	-16070	MG	0.00	0.00	500.00
3630	-16070	-16069	-16135	-16136	MG	0.00	0.00	500.00
3630	-16136	-16135	-16201	-16202	MG	0.00	0.00	500.00
3630	-16202	-16201	-16267	-16268	MG	0.00	0.00	500.00
3630	-16268	-16267	-16333	-16334	MG	0.00	0.00	500.00
3630	-16334	-16333	-16399	-16400	MG	0.00	0.00	500.00
3630	-13395	-13394	-13466	-13467	MG	0.00	0.00	500.00
3630	-13467	-13466	-13536	-13537	MG	0.00	0.00	500.00
3630	-13537	-13536	-13602	-13603	MG	0.00	0.00	500.00
3630	-15939	-15938	-16004	-16005	MG	0.00	0.00	500.00
3630	-16005	-16004	-16070	-16071	MG	0.00	0.00	500.00
3630	-16071	-16070	-16136	-16137	MG	0.00	0.00	500.00
3630	-16137	-16136	-16202	-16203	MG	0.00	0.00	500.00
3630	-16203	-16202	-16268	-16269	MG	0.00	0.00	500.00
3630	-16269	-16268	-16334	-16335	MG	0.00	0.00	500.00
3630	-16335	-16334	-16400	-16401	MG	0.00	0.00	500.00
3630	-15721	-15720	-15786	-15787	MG	0.00	0.00	500.00
3630	-15787	-15786	-15852	-15853	MG	0.00	0.00	500.00
3630	-13538	-13537	-13603	-13604	MG	0.00	0.00	500.00
3630	-14612	-14611	-14679	-14680	MG	0.00	0.00	500.00
3630	-14680	-14679	-14745	-14746	MG	0.00	0.00	500.00
3630	-14746	-14745	-14811	-14812	MG	0.00	0.00	500.00
3630	-14812	-14811	-14877	-14878	MG	0.00	0.00	500.00
3630	-14878	-14877	-14943	-14944	MG	0.00	0.00	500.00
3630	-14944	-14943	-15009	-15010	MG	0.00	0.00	500.00
3630	-15010	-15009	-15075	-15076	MG	0.00	0.00	500.00
3630	-15076	-15075	-15145	-15146	MG	0.00	0.00	500.00
3630	-15146	-15145	-15209	-15210	MG	0.00	0.00	500.00
3630	-15210	-15209	-15276	-15277	MG	0.00	0.00	500.00
3630	-14613	-14612	-14680	-14681	MG	0.00	0.00	500.00
3630	-14681	-14680	-14746	-14747	MG	0.00	0.00	500.00
3630	-14747	-14746	-14812	-14813	MG	0.00	0.00	500.00
3630	-14813	-14812	-14878	-14879	MG	0.00	0.00	500.00
3630	-14879	-14878	-14944	-14945	MG	0.00	0.00	500.00
3630	-14945	-14944	-15010	-15011	MG	0.00	0.00	500.00
3630	-15011	-15010	-15076	-15077	MG	0.00	0.00	500.00
3630	-15077	-15076	-15146	-15147	MG	0.00	0.00	500.00
3630	-15147	-15146	-15210	-15211	MG	0.00	0.00	500.00
3630	-15211	-15210	-15277	-15278	MG	0.00	0.00	500.00
3630	-13398	-13399	-13471	-13470	MG	0.00	0.00	500.00
3630	-13540	-13541	-13607	-13606	MG	0.00	0.00	500.00
3630	-13672	-13673	-13739	-13738	MG	0.00	0.00	500.00
3630	-12376	-12375	-12441	-12442	MG	0.00	0.00	500.00



3630	-12442	-12441	-12528	-12529	MG	0.00	0.00	500.00
3630	-12528	-12547	-12604	-12605	MG	0.00	0.00	500.00
3630	-15658	-15657	-15723	-15724	MG	0.00	0.00	500.00
3630	-12679	-12678	-12749	-12750	MG	0.00	0.00	500.00
3630	-15790	-15789	-15855	-15856	MG	0.00	0.00	500.00
3630	-12820	-12819	-12889	-12890	MG	0.00	0.00	500.00
3630	-15005	-15006	-15072	-15071	MG	0.00	0.00	500.00
3630	-14873	-14874	-14940	-14939	MG	0.00	0.00	500.00
3630	-15395	-15394	-15460	-15461	MG	0.00	0.00	500.00
3630	-13116	-13127	-13192	-13193	MG	0.00	0.00	500.00
3630	-13193	-13192	-13258	-13259	MG	0.00	0.00	500.00
3630	-12529	-12528	-12605	-12606	MG	0.00	0.00	500.00
3630	-12606	-12605	-12679	-12680	MG	0.00	0.00	500.00
3630	-12680	-12679	-12750	-12751	MG	0.00	0.00	500.00
3630	-12751	-12750	-12820	-12821	MG	0.00	0.00	500.00
3630	-15856	-15923	-15924	-15857	MG	0.00	0.00	500.00
3630	-15264	-15263	-15329	-15330	MG	0.00	0.00	500.00
3630	-15330	-15329	-15395	-15396	MG	0.00	0.00	500.00
3630	-15396	-15395	-15461	-15462	MG	0.00	0.00	500.00
3630	-13128	-13116	-13193	-13194	MG	0.00	0.00	500.00
3630	-15528	-15527	-15593	-15594	MG	0.00	0.00	500.00
3630	-15594	-15593	-15659	-15660	MG	0.00	0.00	500.00
3630	-11135	-11134	-11200	-11201	MG	0.00	0.00	500.00
3630	-15726	-15725	-15791	-15792	MG	0.00	0.00	500.00
3630	-11267	-11266	-11338	-11339	MG	0.00	0.00	500.00
3630	-11339	-11338	-11404	-11405	MG	0.00	0.00	500.00
3630	-15265	-15264	-15330	-15331	MG	0.00	0.00	500.00
3630	-15331	-15330	-15396	-15397	MG	0.00	0.00	500.00
3630	-15932	-15931	-15997	-15998	MG	0.00	0.00	500.00
3630	-11615	-11614	-11686	-11687	MG	0.00	0.00	500.00
3630	-11687	-11686	-11752	-11753	MG	0.00	0.00	500.00
3630	-11071	-11070	-11135	-11136	MG	0.00	0.00	500.00
3630	-11136	-11135	-11201	-11202	MG	0.00	0.00	500.00
3630	-11202	-11201	-11267	-11268	MG	0.00	0.00	500.00
3630	-15793	-15792	-15858	-15859	MG	0.00	0.00	500.00
3630	-15859	-15858	-15925	-15926	MG	0.00	0.00	500.00
3630	-11406	-11405	-11475	-11476	MG	0.00	0.00	500.00
3630	-11476	-11475	-11545	-11546	MG	0.00	0.00	500.00
3630	-11546	-11545	-11615	-11616	MG	0.00	0.00	500.00
3630	-11616	-11615	-11687	-11688	MG	0.00	0.00	500.00
3630	-11688	-11687	-11753	-11754	MG	0.00	0.00	500.00
3630	-11824	-11887	-11888	-11825	MG	0.00	0.00	500.00
3630	-11887	-11982	-11939	-11888	MG	0.00	0.00	500.00
3630	-11982	-12036	-12067	-11939	MG	0.00	0.00	500.00
3630	-10494	-10610	-10552	-10495	MG	0.00	0.00	500.00
3630	-12162	-12240	-12241	-12114	MG	0.00	0.00	500.00
3630	-15267	-15266	-15332	-15333	MG	0.00	0.00	500.00
3630	-15333	-15332	-15398	-15399	MG	0.00	0.00	500.00
3630	-15399	-15398	-15464	-15465	MG	0.00	0.00	500.00
3630	-12446	-12532	-12533	-12447	MG	0.00	0.00	500.00
3630	-15531	-15530	-15596	-15597	MG	0.00	0.00	500.00
3630	-11825	-11888	-11898	-11826	MG	0.00	0.00	500.00
3630	-11888	-11939	-11940	-11898	MG	0.00	0.00	500.00
3630	-11939	-12067	-12053	-11940	MG	0.00	0.00	500.00
3630	-12067	-12114	-12163	-12053	MG	0.00	0.00	500.00
3630	-12114	-12241	-12242	-12163	MG	0.00	0.00	500.00
3630	-12241	-12313	-12314	-12242	MG	0.00	0.00	500.00
3630	-12313	-12381	-12382	-12314	MG	0.00	0.00	500.00
3630	-12381	-12447	-12448	-12382	MG	0.00	0.00	500.00
3630	-15466	-15465	-15531	-15532	MG	0.00	0.00	500.00
3630	-15532	-15531	-15597	-15598	MG	0.00	0.00	500.00
3630	-13333	-13400	-13401	-13334	MG	0.00	0.00	500.00
3630	-15664	-15663	-15729	-15730	MG	0.00	0.00	500.00
3630	-15730	-15729	-15795	-15796	MG	0.00	0.00	500.00
3630	-15796	-15795	-15861	-15862	MG	0.00	0.00	500.00
3630	-15862	-15861	-15928	-15929	MG	0.00	0.00	500.00
3630	-15269	-15268	-15334	-15335	MG	0.00	0.00	500.00
3630	-15335	-15334	-15400	-15401	MG	0.00	0.00	500.00
3630	-13806	-13872	-13873	-13807	MG	0.00	0.00	500.00
3630	-13872	-13940	-13941	-13873	MG	0.00	0.00	500.00
3630	-13265	-13334	-13335	-13266	MG	0.00	0.00	500.00
3630	-13334	-13401	-13402	-13335	MG	0.00	0.00	500.00
3630	-13401	-13473	-13474	-13402	MG	0.00	0.00	500.00
3630	-15731	-15730	-15796	-15797	MG	0.00	0.00	500.00
3630	-15797	-15796	-15862	-15863	MG	0.00	0.00	500.00
3630	-15863	-15862	-15929	-15930	MG	0.00	0.00	500.00
3630	-13675	-13741	-13742	-13676	MG	0.00	0.00	500.00
3630	-13741	-13807	-13808	-13742	MG	0.00	0.00	500.00
3630	-13807	-13873	-13874	-13808	MG	0.00	0.00	500.00

3630	-13873	-13941	-13942	-13874	MG	0.00	0.00	500.00
3630	-10294	-10365	-10375	-10295	MG	0.00	0.00	500.00
3630	-15600	-15599	-15665	-15666	MG	0.00	0.00	500.00
3630	-15666	-15665	-15731	-15732	MG	0.00	0.00	500.00
3630	-10504	-10591	-10553	-10505	MG	0.00	0.00	500.00
3630	-10591	-10705	-10706	-10553	MG	0.00	0.00	500.00
3630	-10705	-10790	-10791	-10706	MG	0.00	0.00	500.00
3630	-10790	-10861	-10862	-10791	MG	0.00	0.00	500.00
3630	-10861	-10932	-10933	-10862	MG	0.00	0.00	500.00
3630	-16330	-16331	-16397	-16396	MG	0.00	0.00	500.00
3630	-10997	-11075	-11076	-10998	MG	0.00	0.00	500.00
3630	-10295	-10375	-10376	3502	MG	0.00	0.00	500.00
3630	-16198	-16199	-16265	-16264	MG	0.00	0.00	500.00
3630	-15345	-15344	-15410	-15411	MG	0.00	0.00	500.00
3630	-15411	-15410	-15476	-15477	MG	0.00	0.00	500.00
3630	-15477	-15476	-15542	-15543	MG	0.00	0.00	500.00
3630	-15543	-15542	-15608	-15609	MG	0.00	0.00	500.00
3630	-15609	-15608	-15674	-15675	MG	0.00	0.00	500.00
3630	-15675	-15674	-15740	-15741	MG	0.00	0.00	500.00
3630	-15741	-15740	-15806	-15807	MG	0.00	0.00	500.00
3630	-15807	-15806	-15872	-15873	MG	0.00	0.00	500.00
3630	-15873	-15872	-15939	-15940	MG	0.00	0.00	500.00
3630	-15280	-15279	-15345	-15346	MG	0.00	0.00	500.00
3630	-15346	-15345	-15411	-15412	MG	0.00	0.00	500.00
3630	-15412	-15411	-15477	-15478	MG	0.00	0.00	500.00
3630	-15478	-15477	-15543	-15544	MG	0.00	0.00	500.00
3630	-15544	-15543	-15609	-15610	MG	0.00	0.00	500.00
3630	-15610	-15609	-15675	-15676	MG	0.00	0.00	500.00
3630	-15676	-15675	-15741	-15742	MG	0.00	0.00	500.00
3630	-15742	-15741	-15807	-15808	MG	0.00	0.00	500.00
3630	-15808	-15807	-15873	-15874	MG	0.00	0.00	500.00
3630	-15874	-15873	-15940	-15941	MG	0.00	0.00	500.00
3630	-15281	-15280	-15346	-15347	MG	0.00	0.00	500.00
3630	-15347	-15346	-15412	-15413	MG	0.00	0.00	500.00
3630	-15413	-15412	-15478	-15479	MG	0.00	0.00	500.00
3630	-15479	-15478	-15544	-15545	MG	0.00	0.00	500.00
3630	-15545	-15544	-15610	-15611	MG	0.00	0.00	500.00
3630	-15611	-15610	-15676	-15677	MG	0.00	0.00	500.00
3630	-15677	-15676	-15742	-15743	MG	0.00	0.00	500.00
3630	-15743	-15742	-15808	-15809	MG	0.00	0.00	500.00
3630	-15809	-15808	-15874	-15875	MG	0.00	0.00	500.00
3630	-15875	-15874	-15941	-15942	MG	0.00	0.00	500.00
3630	-15282	-15281	-15347	-15348	MG	0.00	0.00	500.00
3630	-15348	-15347	-15413	-15414	MG	0.00	0.00	500.00
3630	-15414	-15413	-15479	-15480	MG	0.00	0.00	500.00
3630	-15480	-15479	-15545	-15546	MG	0.00	0.00	500.00
3630	-15546	-15545	-15611	-15612	MG	0.00	0.00	500.00
3630	-15612	-15611	-15677	-15678	MG	0.00	0.00	500.00
3630	-15678	-15677	-15743	-15744	MG	0.00	0.00	500.00
3630	-15744	-15743	-15809	-15810	MG	0.00	0.00	500.00
3630	-15810	-15809	-15875	-15876	MG	0.00	0.00	500.00
3630	-15876	-15875	-15942	-15943	MG	0.00	0.00	500.00
3630	-15283	-15282	-15348	-15349	MG	0.00	0.00	500.00
3630	-15349	-15348	-15414	-15415	MG	0.00	0.00	500.00
3630	-15415	-15414	-15480	-15481	MG	0.00	0.00	500.00
3630	-15481	-15480	-15546	-15547	MG	0.00	0.00	500.00
3630	-15547	-15546	-15612	-15613	MG	0.00	0.00	500.00
3630	-15613	-15612	-15678	-15679	MG	0.00	0.00	500.00
3630	-15679	-15678	-15744	-15745	MG	0.00	0.00	500.00
3630	-15745	-15744	-15810	-15811	MG	0.00	0.00	500.00
3630	-15811	-15810	-15876	-15877	MG	0.00	0.00	500.00
3630	-15877	-15876	-15943	-15944	MG	0.00	0.00	500.00
3630	-15284	-15283	-15349	-15350	MG	0.00	0.00	500.00
3630	-15350	-15349	-15415	-15416	MG	0.00	0.00	500.00
3630	-15416	-15415	-15481	-15482	MG	0.00	0.00	500.00
3630	-15482	-15481	-15547	-15548	MG	0.00	0.00	500.00
3630	-15548	-15547	-15613	-15614	MG	0.00	0.00	500.00
3630	-15614	-15613	-15679	-15680	MG	0.00	0.00	500.00
3630	-15680	-15679	-15745	-15746	MG	0.00	0.00	500.00
3630	-15746	-15745	-15811	-15812	MG	0.00	0.00	500.00
3630	-15812	-15811	-15877	-15878	MG	0.00	0.00	500.00
3630	-15878	-15877	-15944	-15945	MG	0.00	0.00	500.00
3630	-15285	-15284	-15350	-15351	MG	0.00	0.00	500.00
3630	-15351	-15350	-15416	-15417	MG	0.00	0.00	500.00
3630	-15417	-15416	-15482	-15483	MG	0.00	0.00	500.00
3630	-15483	-15482	-15548	-15549	MG	0.00	0.00	500.00
3630	-15549	-15548	-15614	-15615	MG	0.00	0.00	500.00
3630	-15615	-15614	-15680	-15681	MG	0.00	0.00	500.00
3630	-15681	-15680	-15746	-15747	MG	0.00	0.00	500.00

3630	-15747	-15746	-15812	-15813	MG	0.00	0.00	500.00
3630	-15813	-15812	-15878	-15879	MG	0.00	0.00	500.00
3630	-15879	-15878	-15945	-15946	MG	0.00	0.00	500.00
3630	-15286	-15285	-15351	-15352	MG	0.00	0.00	500.00
3630	-15352	-15351	-15417	-15418	MG	0.00	0.00	500.00
3630	-15418	-15417	-15483	-15484	MG	0.00	0.00	500.00
3630	-15484	-15483	-15549	-15550	MG	0.00	0.00	500.00
3630	-15550	-15549	-15615	-15616	MG	0.00	0.00	500.00
3630	-15616	-15615	-15681	-15682	MG	0.00	0.00	500.00
3630	-15682	-15681	-15747	-15748	MG	0.00	0.00	500.00
3630	-15748	-15747	-15813	-15814	MG	0.00	0.00	500.00
3630	-15814	-15813	-15879	-15880	MG	0.00	0.00	500.00
3630	-15880	-15879	-15946	-15947	MG	0.00	0.00	500.00
3630	-15287	-15286	-15352	-15353	MG	0.00	0.00	500.00
3630	-15353	-15352	-15418	-15419	MG	0.00	0.00	500.00
3630	-15419	-15418	-15484	-15485	MG	0.00	0.00	500.00
3630	-15485	-15484	-15550	-15551	MG	0.00	0.00	500.00
3630	-15551	-15550	-15616	-15617	MG	0.00	0.00	500.00
3630	-15617	-15616	-15682	-15683	MG	0.00	0.00	500.00
3630	-15683	-15682	-15748	-15749	MG	0.00	0.00	500.00
3630	-15749	-15748	-15814	-15815	MG	0.00	0.00	500.00
3630	-15815	-15814	-15880	-15881	MG	0.00	0.00	500.00
3630	-15881	-15880	-15947	-15948	MG	0.00	0.00	500.00
3630	-15288	-15287	-15353	-15354	MG	0.00	0.00	500.00
3630	-15354	-15353	-15419	-15420	MG	0.00	0.00	500.00
3630	-15420	-15419	-15485	-15486	MG	0.00	0.00	500.00
3630	-15486	-15485	-15551	-15552	MG	0.00	0.00	500.00
3630	-15552	-15551	-15617	-15618	MG	0.00	0.00	500.00
3630	-15618	-15617	-15683	-15684	MG	0.00	0.00	500.00
3630	-15684	-15683	-15749	-15750	MG	0.00	0.00	500.00
3630	-15750	-15749	-15815	-15816	MG	0.00	0.00	500.00
3630	-15816	-15815	-15881	-15882	MG	0.00	0.00	500.00
3630	-15882	-15881	-15948	-15949	MG	0.00	0.00	500.00
3630	-15289	-15288	-15354	-15355	MG	0.00	0.00	500.00
3630	-15355	-15354	-15420	-15421	MG	0.00	0.00	500.00
3630	-15421	-15420	-15486	-15487	MG	0.00	0.00	500.00
3630	-15487	-15486	-15552	-15553	MG	0.00	0.00	500.00
3630	-15553	-15552	-15618	-15619	MG	0.00	0.00	500.00
3630	-15619	-15618	-15684	-15685	MG	0.00	0.00	500.00
3630	-15685	-15684	-15750	-15751	MG	0.00	0.00	500.00
3630	-15751	-15750	-15816	-15817	MG	0.00	0.00	500.00
3630	-15817	-15816	-15882	-15883	MG	0.00	0.00	500.00
3630	-15883	-15882	-15949	-15950	MG	0.00	0.00	500.00
3630	-15290	-15289	-15355	-15356	MG	0.00	0.00	500.00
3630	-15356	-15355	-15421	-15422	MG	0.00	0.00	500.00
3630	-15422	-15421	-15487	-15488	MG	0.00	0.00	500.00
3630	-15488	-15487	-15553	-15554	MG	0.00	0.00	500.00
3630	-15554	-15553	-15619	-15620	MG	0.00	0.00	500.00
3630	-15620	-15619	-15685	-15686	MG	0.00	0.00	500.00
3630	-15686	-15685	-15751	-15752	MG	0.00	0.00	500.00
3630	-15752	-15751	-15817	-15818	MG	0.00	0.00	500.00
3630	-15818	-15817	-15883	-15884	MG	0.00	0.00	500.00
3630	-15884	-15883	-15950	-15951	MG	0.00	0.00	500.00
3630	-15940	-15939	-16005	-16006	MG	0.00	0.00	500.00
3630	-16006	-16005	-16071	-16072	MG	0.00	0.00	500.00
3630	-16072	-16071	-16137	-16138	MG	0.00	0.00	500.00
3630	-16138	-16137	-16203	-16204	MG	0.00	0.00	500.00
3630	-16204	-16203	-16269	-16270	MG	0.00	0.00	500.00
3630	-16270	-16269	-16335	-16336	MG	0.00	0.00	500.00
3630	-16336	-16335	-16401	-16402	MG	0.00	0.00	500.00
3630	-10361	-10362	-10424	-10423	MG	0.00	0.00	500.00
3630	-10362	-10363	-10425	-10424	MG	0.00	0.00	500.00
3630	-14012	-14011	-14065	-14081	MG	0.00	0.00	500.00
3630	-15941	-15940	-16006	-16007	MG	0.00	0.00	500.00
3630	-16007	-16006	-16072	-16073	MG	0.00	0.00	500.00
3630	-16073	-16072	-16138	-16139	MG	0.00	0.00	500.00
3630	-16139	-16138	-16204	-16205	MG	0.00	0.00	500.00
3630	-16205	-16204	-16270	-16271	MG	0.00	0.00	500.00
3630	-16271	-16270	-16336	-16337	MG	0.00	0.00	500.00
3630	-16337	-16336	-16402	-16403	MG	0.00	0.00	500.00
3630	-11740	-11806	-11807	-11741	MG	0.00	0.00	500.00
3630	-10290	-10289	-10360	-10361	MG	0.00	0.00	500.00
3630	-11758	-11824	-11825	-11759	MG	0.00	0.00	500.00
3630	-15942	-15941	-16007	-16008	MG	0.00	0.00	500.00
3630	-16008	-16007	-16073	-16074	MG	0.00	0.00	500.00
3630	-16074	-16073	-16139	-16140	MG	0.00	0.00	500.00
3630	-16140	-16139	-16205	-16206	MG	0.00	0.00	500.00
3630	-16206	-16205	-16271	-16272	MG	0.00	0.00	500.00
3630	-16272	-16271	-16337	-16338	MG	0.00	0.00	500.00

3630	-16338	-16337	-16403	-16404	MG	0.00	0.00	500.00
3630	-15277	-15276	-15342	-15343	MG	0.00	0.00	500.00
3630	-15343	-15342	-15408	-15409	MG	0.00	0.00	500.00
3630	-15409	-15408	-15474	-15475	MG	0.00	0.00	500.00
3630	-15943	-15942	-16008	-16009	MG	0.00	0.00	500.00
3630	-16009	-16008	-16074	-16075	MG	0.00	0.00	500.00
3630	-16075	-16074	-16140	-16141	MG	0.00	0.00	500.00
3630	-16141	-16140	-16206	-16207	MG	0.00	0.00	500.00
3630	-16207	-16206	-16272	-16273	MG	0.00	0.00	500.00
3630	-16273	-16272	-16338	-16339	MG	0.00	0.00	500.00
3630	-16339	-16338	-16404	-16405	MG	0.00	0.00	500.00
3630	-10441	-10440	-10498	-10499	MG	0.00	0.00	500.00
3630	-10500	-10499	-10589	-10590	MG	0.00	0.00	500.00
3630	-10499	-10498	-10588	-10589	MG	0.00	0.00	500.00
3630	-15944	-15943	-16009	-16010	MG	0.00	0.00	500.00
3630	-16010	-16009	-16075	-16076	MG	0.00	0.00	500.00
3630	-16076	-16075	-16141	-16142	MG	0.00	0.00	500.00
3630	-16142	-16141	-16207	-16208	MG	0.00	0.00	500.00
3630	-16208	-16207	-16273	-16274	MG	0.00	0.00	500.00
3630	-16274	-16273	-16339	-16340	MG	0.00	0.00	500.00
3630	-16340	-16339	-16405	-16406	MG	0.00	0.00	500.00
3630	-10843	-10842	-10927	-10928	MG	0.00	0.00	500.00
3630	-10893	-10928	-10992	-10993	MG	0.00	0.00	500.00
3630	-10928	-10927	-10991	-10992	MG	0.00	0.00	500.00
3630	-12525	-12598	-12599	-12514	MG	0.00	0.00	500.00
3630	-16011	-16010	-16076	-16077	MG	0.00	0.00	500.00
3630	-16077	-16076	-16142	-16143	MG	0.00	0.00	500.00
3630	-16143	-16142	-16208	-16209	MG	0.00	0.00	500.00
3630	-16209	-16208	-16274	-16275	MG	0.00	0.00	500.00
3630	-16275	-16274	-16340	-16341	MG	0.00	0.00	500.00
3630	-16341	-16340	-16406	-16407	MG	0.00	0.00	500.00
3630	-13603	-13602	-13668	-13669	MG	0.00	0.00	500.00
3630	-13669	-13668	-13734	-13735	MG	0.00	0.00	500.00
3630	-13735	-13734	-13800	-13801	MG	0.00	0.00	500.00
3630	-15946	-15945	-16011	-16012	MG	0.00	0.00	500.00
3630	-16012	-16011	-16077	-16078	MG	0.00	0.00	500.00
3630	-16078	-16077	-16143	-16144	MG	0.00	0.00	500.00
3630	-16144	-16143	-16209	-16210	MG	0.00	0.00	500.00
3630	-16210	-16209	-16275	-16276	MG	0.00	0.00	500.00
3630	-16276	-16275	-16341	-16342	MG	0.00	0.00	500.00
3630	-16342	-16341	-16407	-16408	MG	0.00	0.00	500.00
3630	-13604	-13603	-13669	-13670	MG	0.00	0.00	500.00
3630	-13670	-13669	-13735	-13736	MG	0.00	0.00	500.00
3630	-13736	-13735	-13801	-13802	MG	0.00	0.00	500.00
3630	-15947	-15946	-16012	-16013	MG	0.00	0.00	500.00
3630	-16013	-16012	-16078	-16079	MG	0.00	0.00	500.00
3630	-16079	-16078	-16144	-16145	MG	0.00	0.00	500.00
3630	-16145	-16144	-16210	-16211	MG	0.00	0.00	500.00
3630	-16211	-16210	-16276	-16277	MG	0.00	0.00	500.00
3630	-16277	-16276	-16342	-16343	MG	0.00	0.00	500.00
3630	-16343	-16342	-16408	-16409	MG	0.00	0.00	500.00
3630	-12119	-12160	-12234	-12235	MG	0.00	0.00	500.00
3630	-12235	-12234	-12306	-12307	MG	0.00	0.00	500.00
3630	-12307	-12306	-12374	-12375	MG	0.00	0.00	500.00
3630	-15948	-15947	-16013	-16014	MG	0.00	0.00	500.00
3630	-16014	-16013	-16079	-16080	MG	0.00	0.00	500.00
3630	-16080	-16079	-16145	-16146	MG	0.00	0.00	500.00
3630	-16146	-16145	-16211	-16212	MG	0.00	0.00	500.00
3630	-16212	-16211	-16277	-16278	MG	0.00	0.00	500.00
3630	-16278	-16277	-16343	-16344	MG	0.00	0.00	500.00
3630	-16344	-16343	-16409	-16410	MG	0.00	0.00	500.00
3630	-12113	-12119	-12235	-12236	MG	0.00	0.00	500.00
3630	-12236	-12235	-12307	-12308	MG	0.00	0.00	500.00
3630	-12308	-12307	-12375	-12376	MG	0.00	0.00	500.00
3630	-15949	-15948	-16014	-16015	MG	0.00	0.00	500.00
3630	-16015	-16014	-16080	-16081	MG	0.00	0.00	500.00
3630	-16081	-16080	-16146	-16147	MG	0.00	0.00	500.00
3630	-16147	-16146	-16212	-16213	MG	0.00	0.00	500.00
3630	-16213	-16212	-16278	-16279	MG	0.00	0.00	500.00
3630	-16279	-16278	-16344	-16345	MG	0.00	0.00	500.00
3630	-16345	-16344	-16410	-16411	MG	0.00	0.00	500.00
3630	-12890	-12889	-12972	-12962	MG	0.00	0.00	500.00
3630	-12962	-12972	-13050	-13051	MG	0.00	0.00	500.00
3630	-13051	-13050	-13127	-13116	MG	0.00	0.00	500.00
3630	-15950	-15949	-16015	-16016	MG	0.00	0.00	500.00
3630	-16016	-16015	-16081	-16082	MG	0.00	0.00	500.00
3630	-16082	-16081	-16147	-16148	MG	0.00	0.00	500.00
3630	-16148	-16147	-16213	-16214	MG	0.00	0.00	500.00
3630	-16214	-16213	-16279	-16280	MG	0.00	0.00	500.00

3630	-16280	-16279	-16345	-16346	MG	0.00	0.00	500.00
3630	-16346	-16345	-16411	-16412	MG	0.00	0.00	500.00
3630	-12891	-12890	-12962	-12973	MG	0.00	0.00	500.00
3630	-12973	-12962	-13051	-13052	MG	0.00	0.00	500.00
3630	-13052	-13051	-13116	-13128	MG	0.00	0.00	500.00
3630	-15951	-15950	-16016	-16017	MG	0.00	0.00	500.00
3630	-16017	-16016	-16082	-16083	MG	0.00	0.00	500.00
3630	-16083	-16082	-16148	-16149	MG	0.00	0.00	500.00
3630	-16149	-16148	-16214	-16215	MG	0.00	0.00	500.00
3630	-16215	-16214	-16280	-16281	MG	0.00	0.00	500.00
3630	-16281	-16280	-16346	-16347	MG	0.00	0.00	500.00
3630	-16347	-16346	-16412	-16413	MG	0.00	0.00	500.00
3630	-11405	-11404	-11474	-11475	MG	0.00	0.00	500.00
3630	-11475	-11474	-11544	-11545	MG	0.00	0.00	500.00
3630	-11545	-11544	-11614	-11615	MG	0.00	0.00	500.00
3630	-14614	-14613	-14681	-14682	MG	0.00	0.00	500.00
3630	-14682	-14681	-14747	-14748	MG	0.00	0.00	500.00
3630	-14748	-14747	-14813	-14814	MG	0.00	0.00	500.00
3630	-14814	-14813	-14879	-14880	MG	0.00	0.00	500.00
3630	-14880	-14879	-14945	-14946	MG	0.00	0.00	500.00
3630	-14946	-14945	-15011	-15012	MG	0.00	0.00	500.00
3630	-15012	-15011	-15077	-15078	MG	0.00	0.00	500.00
3630	-15078	-15077	-15147	-15130	MG	0.00	0.00	500.00
3630	-15130	-15147	-15211	-15212	MG	0.00	0.00	500.00
3630	-15212	-15211	-15278	-15279	MG	0.00	0.00	500.00
3630	-14615	-14614	-14682	-14683	MG	0.00	0.00	500.00
3630	-14683	-14682	-14748	-14749	MG	0.00	0.00	500.00
3630	-14749	-14748	-14814	-14815	MG	0.00	0.00	500.00
3630	-14815	-14814	-14880	-14881	MG	0.00	0.00	500.00
3630	-14881	-14880	-14946	-14947	MG	0.00	0.00	500.00
3630	-14947	-14946	-15012	-15013	MG	0.00	0.00	500.00
3630	-15013	-15012	-15078	-15079	MG	0.00	0.00	500.00
3630	-15079	-15078	-15130	-15148	MG	0.00	0.00	500.00
3630	-15148	-15130	-15212	-15213	MG	0.00	0.00	500.00
3630	-15213	-15212	-15279	-15280	MG	0.00	0.00	500.00
3630	-14616	-14615	-14683	-14684	MG	0.00	0.00	500.00
3630	-14684	-14683	-14749	-14750	MG	0.00	0.00	500.00
3630	-14750	-14749	-14815	-14816	MG	0.00	0.00	500.00
3630	-14816	-14815	-14881	-14882	MG	0.00	0.00	500.00
3630	-14882	-14881	-14947	-14948	MG	0.00	0.00	500.00
3630	-14948	-14947	-15013	-15014	MG	0.00	0.00	500.00
3630	-15014	-15013	-15079	-15080	MG	0.00	0.00	500.00
3630	-15080	-15079	-15148	-15149	MG	0.00	0.00	500.00
3630	-15149	-15148	-15213	-15214	MG	0.00	0.00	500.00
3630	-15214	-15213	-15280	-15281	MG	0.00	0.00	500.00
3630	-14617	-14616	-14684	-14685	MG	0.00	0.00	500.00
3630	-14685	-14684	-14750	-14751	MG	0.00	0.00	500.00
3630	-14751	-14750	-14816	-14817	MG	0.00	0.00	500.00
3630	-14817	-14816	-14882	-14883	MG	0.00	0.00	500.00
3630	-14883	-14882	-14948	-14949	MG	0.00	0.00	500.00
3630	-14949	-14948	-15014	-15015	MG	0.00	0.00	500.00
3630	-15015	-15014	-15080	-15081	MG	0.00	0.00	500.00
3630	-15081	-15080	-15149	-15150	MG	0.00	0.00	500.00
3630	-15150	-15149	-15214	-15215	MG	0.00	0.00	500.00
3630	-15215	-15214	-15281	-15282	MG	0.00	0.00	500.00
3630	-14618	-14617	-14685	-14686	MG	0.00	0.00	500.00
3630	-14686	-14685	-14751	-14752	MG	0.00	0.00	500.00
3630	-14752	-14751	-14817	-14818	MG	0.00	0.00	500.00
3630	-14818	-14817	-14883	-14884	MG	0.00	0.00	500.00
3630	-14884	-14883	-14949	-14950	MG	0.00	0.00	500.00
3630	-14950	-14949	-15015	-15016	MG	0.00	0.00	500.00
3630	-15016	-15015	-15081	-15082	MG	0.00	0.00	500.00
3630	-15082	-15081	-15150	-15151	MG	0.00	0.00	500.00
3630	-15151	-15150	-15215	-15216	MG	0.00	0.00	500.00
3630	-15216	-15215	-15282	-15283	MG	0.00	0.00	500.00
3630	-14619	-14618	-14686	-14687	MG	0.00	0.00	500.00
3630	-14687	-14686	-14752	-14753	MG	0.00	0.00	500.00
3630	-14753	-14752	-14818	-14819	MG	0.00	0.00	500.00
3630	-14819	-14818	-14884	-14885	MG	0.00	0.00	500.00
3630	-14885	-14884	-14950	-14951	MG	0.00	0.00	500.00
3630	-14951	-14950	-15016	-15017	MG	0.00	0.00	500.00
3630	-15017	-15016	-15082	-15083	MG	0.00	0.00	500.00
3630	-15083	-15082	-15151	-15097	MG	0.00	0.00	500.00
3630	-15097	-15151	-15216	-15217	MG	0.00	0.00	500.00
3630	-15217	-15216	-15283	-15284	MG	0.00	0.00	500.00
3630	-14620	-14619	-14687	-14688	MG	0.00	0.00	500.00
3630	-14688	-14687	-14753	-14754	MG	0.00	0.00	500.00
3630	-14754	-14753	-14819	-14820	MG	0.00	0.00	500.00
3630	-14820	-14819	-14885	-14886	MG	0.00	0.00	500.00

3630	-14886	-14885	-14951	-14952	MG	0.00	0.00	500.00
3630	-14952	-14951	-15017	-15018	MG	0.00	0.00	500.00
3630	-15018	-15017	-15083	-15084	MG	0.00	0.00	500.00
3630	-15084	-15083	-15097	-15152	MG	0.00	0.00	500.00
3630	-15152	-15097	-15217	-15218	MG	0.00	0.00	500.00
3630	-15218	-15217	-15284	-15285	MG	0.00	0.00	500.00
3630	-14621	-14620	-14688	-14689	MG	0.00	0.00	500.00
3630	-14689	-14688	-14754	-14755	MG	0.00	0.00	500.00
3630	-14755	-14754	-14820	-14821	MG	0.00	0.00	500.00
3630	-14821	-14820	-14886	-14887	MG	0.00	0.00	500.00
3630	-14887	-14886	-14952	-14953	MG	0.00	0.00	500.00
3630	-14953	-14952	-15018	-15019	MG	0.00	0.00	500.00
3630	-15019	-15018	-15084	-15085	MG	0.00	0.00	500.00
3630	-15085	-15084	-15152	-15153	MG	0.00	0.00	500.00
3630	-15153	-15152	-15218	-15219	MG	0.00	0.00	500.00
3630	-15219	-15218	-15285	-15286	MG	0.00	0.00	500.00
3630	-14622	-14621	-14689	-14690	MG	0.00	0.00	500.00
3630	-14690	-14689	-14755	-14756	MG	0.00	0.00	500.00
3630	-14756	-14755	-14821	-14822	MG	0.00	0.00	500.00
3630	-14822	-14821	-14887	-14888	MG	0.00	0.00	500.00
3630	-14888	-14887	-14953	-14954	MG	0.00	0.00	500.00
3630	-14954	-14953	-15019	-15020	MG	0.00	0.00	500.00
3630	-15020	-15019	-15085	-15086	MG	0.00	0.00	500.00
3630	-15086	-15085	-15153	-15154	MG	0.00	0.00	500.00
3630	-15154	-15153	-15219	-15220	MG	0.00	0.00	500.00
3630	-15220	-15219	-15286	-15287	MG	0.00	0.00	500.00
3630	-14623	-14622	-14690	-14691	MG	0.00	0.00	500.00
3630	-14691	-14690	-14756	-14757	MG	0.00	0.00	500.00
3630	-14757	-14756	-14822	-14823	MG	0.00	0.00	500.00
3630	-14823	-14822	-14888	-14889	MG	0.00	0.00	500.00
3630	-14889	-14888	-14954	-14955	MG	0.00	0.00	500.00
3630	-14955	-14954	-15020	-15021	MG	0.00	0.00	500.00
3630	-15021	-15020	-15086	-15087	MG	0.00	0.00	500.00
3630	-15087	-15086	-15154	-15155	MG	0.00	0.00	500.00
3630	-15155	-15154	-15220	-15221	MG	0.00	0.00	500.00
3630	-15221	-15220	-15287	-15288	MG	0.00	0.00	500.00
3630	-14624	-14623	-14691	-14692	MG	0.00	0.00	500.00
3630	-11133	-11199	-11200	-11134	MG	0.00	0.00	500.00
3630	-14758	-14757	-14823	-14824	MG	0.00	0.00	500.00
3630	-14824	-14823	-14889	-14890	MG	0.00	0.00	500.00
3630	-14890	-14889	-14955	-14956	MG	0.00	0.00	500.00
3630	-11403	-11473	-11474	-11404	MG	0.00	0.00	500.00
3630	-11473	-11543	-11544	-11474	MG	0.00	0.00	500.00
3630	-11543	-11613	-11614	-11544	MG	0.00	0.00	500.00
3630	-11613	-11685	-11686	-11614	MG	0.00	0.00	500.00
3630	-11685	-11751	-11752	-11686	MG	0.00	0.00	500.00
3630	-14625	-14624	-14692	-14693	MG	0.00	0.00	500.00
3630	-14693	-14692	-14758	-14759	MG	0.00	0.00	500.00
3630	-10506	-10541	-10592	-10507	MG	0.00	0.00	500.00
3630	-10541	-10707	-10708	-10592	MG	0.00	0.00	500.00
3630	-10707	-10792	-10793	-10708	MG	0.00	0.00	500.00
3630	-10792	-10844	-10863	-10793	MG	0.00	0.00	500.00
3630	-10844	-10934	-10894	-10863	MG	0.00	0.00	500.00
3630	-10934	-10999	-11000	-10894	MG	0.00	0.00	500.00
3630	-10999	-11077	-11078	-11000	MG	0.00	0.00	500.00
3630	-15223	-15222	-15289	-15290	MG	0.00	0.00	500.00
3630	-10366	-10427	-10428	-10367	MG	0.00	0.00	500.00
3630	-13953	-13952	-14022	-14023	MG	0.00	0.00	500.00
3630	-10507	-10592	-10569	-10508	MG	0.00	0.00	500.00
3630	-10592	-10708	-10709	-10569	MG	0.00	0.00	500.00
3630	-10708	-10793	-10794	-10709	MG	0.00	0.00	500.00
3630	-13949	-13948	-14018	-14019	MG	0.00	0.00	500.00
3630	-13948	-13947	-14017	-14018	MG	0.00	0.00	500.00
3630	-13947	-13946	-14016	-14017	MG	0.00	0.00	500.00
3630	-13946	-13945	-14015	-14016	MG	0.00	0.00	500.00
3630	-13945	-13944	-14014	-14015	MG	0.00	0.00	500.00
3630	-10367	-10428	-10429	-10368	MG	0.00	0.00	500.00
3630	-10428	-10508	-10509	-10429	MG	0.00	0.00	500.00
3630	-10508	-10569	-10593	-10509	MG	0.00	0.00	500.00
3630	-14023	-14022	-14089	-14090	MG	0.00	0.00	500.00
3630	-14022	-14021	-14088	-14089	MG	0.00	0.00	500.00
3630	-14021	-14020	-14087	-14088	MG	0.00	0.00	500.00
3630	-14020	-14019	-14086	-14087	MG	0.00	0.00	500.00
3630	-14019	-14018	-14085	-14086	MG	0.00	0.00	500.00
3630	-14018	-14017	-14084	-14085	MG	0.00	0.00	500.00
3630	-14017	-14016	-14083	-14084	MG	0.00	0.00	500.00
3630	-14016	-14015	-14067	-14083	MG	0.00	0.00	500.00
3630	-14015	-14014	-14082	-14067	MG	0.00	0.00	500.00
3630	-14014	-14013	-14066	-14082	MG	0.00	0.00	500.00

3630	-10593	-10710	-10711	-10619	MG	0.00	0.00	500.00
3630	-10710	-10795	-10796	-10711	MG	0.00	0.00	500.00
3630	-10795	-10865	-10866	-10796	MG	0.00	0.00	500.00
3630	-14089	-14088	-14156	-14157	MG	0.00	0.00	500.00
3630	-14088	-14087	-14155	-14156	MG	0.00	0.00	500.00
3630	-14087	-14086	-14154	-14155	MG	0.00	0.00	500.00
3630	-10299	-10369	-10377	-10300	MG	0.00	0.00	500.00
3630	-10369	-10445	-10446	-10377	MG	0.00	0.00	500.00
3630	-10445	-10510	-10511	-10446	MG	0.00	0.00	500.00
3630	-10510	-10619	-10524	-10511	MG	0.00	0.00	500.00
3630	-10619	-10711	-10712	-10524	MG	0.00	0.00	500.00
3630	-14082	-14066	-14148	-14149	MG	0.00	0.00	500.00
3630	-14066	-14081	-14147	-14148	MG	0.00	0.00	500.00
3630	-10866	-10936	-10937	-10867	MG	0.00	0.00	500.00
3630	-10936	-11003	-11004	-10937	MG	0.00	0.00	500.00
3630	-11003	-11081	-11082	-11004	MG	0.00	0.00	500.00
3630	-10300	-10377	-10370	-10301	MG	0.00	0.00	500.00
3630	-14155	-14154	-14220	-14221	MG	0.00	0.00	500.00
3630	-10446	-10511	-10512	-10447	MG	0.00	0.00	500.00
3630	-10511	-10524	-10594	-10512	MG	0.00	0.00	500.00
3630	-14152	-14151	-14217	-14218	MG	0.00	0.00	500.00
3630	-14151	-14150	-14216	-14217	MG	0.00	0.00	500.00
3630	-10797	-10867	-10845	-10798	MG	0.00	0.00	500.00
3630	-10867	-10937	-10938	-10845	MG	0.00	0.00	500.00
3630	-10937	-11004	-11005	-10938	MG	0.00	0.00	500.00
3630	-11004	-11082	-11083	-11005	MG	0.00	0.00	500.00
3630	-14224	-14223	-14289	-14290	MG	0.00	0.00	500.00
3630	-14223	-14222	-14288	-14289	MG	0.00	0.00	500.00
3630	-14222	-14221	-14287	-14288	MG	0.00	0.00	500.00
3630	-14221	-14220	-14286	-14287	MG	0.00	0.00	500.00
3630	-14220	-14219	-14285	-14286	MG	0.00	0.00	500.00
3630	-10713	-10798	-10799	-10714	MG	0.00	0.00	500.00
3630	-10798	-10845	-10868	-10799	MG	0.00	0.00	500.00
3630	-10845	-10938	-10939	-10868	MG	0.00	0.00	500.00
3630	-14216	-14215	-14281	-14282	MG	0.00	0.00	500.00
3630	-14215	-14214	-14280	-14281	MG	0.00	0.00	500.00
3630	-14214	-14213	-14279	-14280	MG	0.00	0.00	500.00
3630	-14291	-14290	-14356	-14357	MG	0.00	0.00	500.00
3630	-14290	-14289	-14355	-14356	MG	0.00	0.00	500.00
3630	-14289	-14288	-14354	-14355	MG	0.00	0.00	500.00
3630	-14288	-14287	-14353	-14354	MG	0.00	0.00	500.00
3630	-14287	-14286	-14352	-14353	MG	0.00	0.00	500.00
3630	-14286	-14285	-14351	-14352	MG	0.00	0.00	500.00
3630	-14285	-14284	-14350	-14351	MG	0.00	0.00	500.00
3630	-10939	-11006	-11007	-10940	MG	0.00	0.00	500.00
3630	-11006	-11084	-11039	-11007	MG	0.00	0.00	500.00
3630	-14282	-14281	-14347	-14348	MG	0.00	0.00	500.00
3630	-14281	-14280	-14346	-14347	MG	0.00	0.00	500.00
3630	-14280	-14279	-14345	-14346	MG	0.00	0.00	500.00
3630	-14357	-14356	-14422	-14423	MG	0.00	0.00	500.00
3630	-10596	-10715	-10716	-10626	MG	0.00	0.00	500.00
3630	-14355	-14354	-14420	-14421	MG	0.00	0.00	500.00
3630	-14354	-14353	-14419	-14420	MG	0.00	0.00	500.00
3630	-14353	-14352	-14418	-14419	MG	0.00	0.00	500.00
3630	-14352	-14351	-14417	-14418	MG	0.00	0.00	500.00
3630	-14351	-14350	-14416	-14417	MG	0.00	0.00	500.00
3630	-14350	-14349	-14415	-14416	MG	0.00	0.00	500.00
3630	-10379	-10448	-10449	-10372	MG	0.00	0.00	500.00
3630	-10448	-10515	-10516	-10449	MG	0.00	0.00	500.00
3630	-10515	-10626	-10597	-10516	MG	0.00	0.00	500.00
3630	-10626	-10716	-10686	-10597	MG	0.00	0.00	500.00
3630	-14423	-14422	-14488	-14489	MG	0.00	0.00	500.00
3630	-14422	-14421	-14487	-14488	MG	0.00	0.00	500.00
3630	-14421	-14420	-14486	-14487	MG	0.00	0.00	500.00
3630	-14420	-14419	-14485	-14486	MG	0.00	0.00	500.00
3630	-11008	-11085	-11086	-11009	MG	0.00	0.00	500.00
3630	-14418	-14417	-14483	-14484	MG	0.00	0.00	500.00
3630	-14417	-14416	-14482	-14483	MG	0.00	0.00	500.00
3630	-10449	-10516	-10517	-10450	MG	0.00	0.00	500.00
3630	-10516	-10597	-10598	-10517	MG	0.00	0.00	500.00
3630	-14414	-14413	-14479	-14480	MG	0.00	0.00	500.00
3630	-14413	-14412	-14478	-14479	MG	0.00	0.00	500.00
3630	-14412	-14411	-14477	-14478	MG	0.00	0.00	500.00
3630	-14489	-14488	-14554	-14555	MG	0.00	0.00	500.00
3630	-14488	-14487	-14553	-14554	MG	0.00	0.00	500.00
3630	-14487	-14486	-14552	-14553	MG	0.00	0.00	500.00
3630	-10306	-10380	-10381	-10307	MG	0.00	0.00	500.00
3630	-10380	-10450	-10451	-10381	MG	0.00	0.00	500.00
3630	-14484	-14483	-14549	-14550	MG	0.00	0.00	500.00

3630	-14483	-14482	-14548	-14549	MG	0.00	0.00	500.00
3630	-14482	-14481	-14547	-14548	MG	0.00	0.00	500.00
3630	-14481	-14480	-14546	-14547	MG	0.00	0.00	500.00
3630	-14480	-14479	-14545	-14546	MG	0.00	0.00	500.00
3630	-14479	-14478	-14544	-14545	MG	0.00	0.00	500.00
3630	-14478	-14477	-14543	-14544	MG	0.00	0.00	500.00
3630	-14555	-14554	-14624	-14625	MG	0.00	0.00	500.00
3630	-14554	-14553	-14623	-14624	MG	0.00	0.00	500.00
3630	-14553	-14552	-14622	-14623	MG	0.00	0.00	500.00
3630	-11898	-11940	-12011	-11889	MG	0.00	0.00	500.00
3630	-14551	-14550	-14620	-14621	MG	0.00	0.00	500.00
3630	-14550	-14549	-14619	-14620	MG	0.00	0.00	500.00
3630	-14549	-14548	-14618	-14619	MG	0.00	0.00	500.00
3630	-14548	-14547	-14617	-14618	MG	0.00	0.00	500.00
3630	-14547	-14546	-14616	-14617	MG	0.00	0.00	500.00
3630	-14546	-14545	-14615	-14616	MG	0.00	0.00	500.00
3630	-14545	-14544	-14614	-14615	MG	0.00	0.00	500.00
3630	-14544	-14543	-14613	-14614	MG	0.00	0.00	500.00
3630	-15325	-15324	-15390	-15391	MG	0.00	0.00	500.00
3630	-15391	-15390	-15456	-15457	MG	0.00	0.00	500.00
3630	-15457	-15456	-15522	-15523	MG	0.00	0.00	500.00
3630	-15523	-15522	-15588	-15589	MG	0.00	0.00	500.00
3630	-12146	-12243	-12244	-12164	MG	0.00	0.00	500.00
3630	-12243	-12315	-12316	-12244	MG	0.00	0.00	500.00
3630	-12315	-12383	-12384	-12316	MG	0.00	0.00	500.00
3630	-12383	-12449	-12450	-12384	MG	0.00	0.00	500.00
3630	-15853	-15852	-15919	-15920	MG	0.00	0.00	500.00
3630	-15260	-15259	-15325	-15326	MG	0.00	0.00	500.00
3630	-11828	-11890	-11899	-11829	MG	0.00	0.00	500.00
3630	-15392	-15391	-15457	-15458	MG	0.00	0.00	500.00
3630	-11983	-12022	-12101	-12012	MG	0.00	0.00	500.00
3630	-15524	-15523	-15589	-15590	MG	0.00	0.00	500.00
3630	-15590	-15589	-15655	-15656	MG	0.00	0.00	500.00
3630	-12244	-12316	-12317	-12245	MG	0.00	0.00	500.00
3630	-12316	-12384	-12385	-12317	MG	0.00	0.00	500.00
3630	-15788	-15787	-15853	-15854	MG	0.00	0.00	500.00
3630	-15854	-15853	-15920	-15921	MG	0.00	0.00	500.00
3630	-15261	-15260	-15326	-15327	MG	0.00	0.00	500.00
3630	-15327	-15326	-15392	-15393	MG	0.00	0.00	500.00
3630	-15393	-15392	-15458	-15459	MG	0.00	0.00	500.00
3630	-12012	-12101	-12054	-12013	MG	0.00	0.00	500.00
3630	-12101	-12171	-12115	-12054	MG	0.00	0.00	500.00
3630	-12171	-12245	-12246	-12115	MG	0.00	0.00	500.00
3630	-15657	-15656	-15722	-15723	MG	0.00	0.00	500.00
3630	-15723	-15722	-15788	-15789	MG	0.00	0.00	500.00
3630	-15789	-15788	-15854	-15855	MG	0.00	0.00	500.00
3630	-15855	-15854	-15921	-15922	MG	0.00	0.00	500.00
3630	-15262	-15261	-15327	-15328	MG	0.00	0.00	500.00
3630	-15328	-15327	-15393	-15394	MG	0.00	0.00	500.00
3630	-15394	-15393	-15459	-15460	MG	0.00	0.00	500.00
3630	-15460	-15459	-15525	-15526	MG	0.00	0.00	500.00
3630	-15526	-15525	-15591	-15592	MG	0.00	0.00	500.00
3630	-15592	-15591	-15657	-15658	MG	0.00	0.00	500.00
3630	-12246	-12318	-12319	-12247	MG	0.00	0.00	500.00
3630	-15724	-15723	-15789	-15790	MG	0.00	0.00	500.00
3630	-12386	-12452	-12453	-12387	MG	0.00	0.00	500.00
3630	-15856	-15855	-15922	-15923	MG	0.00	0.00	500.00
3630	-15263	-15262	-15328	-15329	MG	0.00	0.00	500.00
3630	-15329	-15328	-15394	-15395	MG	0.00	0.00	500.00
3630	-11892	-11998	-11999	-11900	MG	0.00	0.00	500.00
3630	-15461	-15460	-15526	-15527	MG	0.00	0.00	500.00
3630	-15527	-15526	-15592	-15593	MG	0.00	0.00	500.00
3630	-15593	-15592	-15658	-15659	MG	0.00	0.00	500.00
3630	-15659	-15658	-15724	-15725	MG	0.00	0.00	500.00
3630	-15725	-15724	-15790	-15791	MG	0.00	0.00	500.00
3630	-15791	-15790	-15856	-15857	MG	0.00	0.00	500.00
3630	-12453	-12537	-12538	-12454	MG	0.00	0.00	500.00
3630	-11766	-11832	-11833	-11767	MG	0.00	0.00	500.00
3630	-11832	-11900	-11901	-11833	MG	0.00	0.00	500.00
3630	-11900	-11999	-12000	-11901	MG	0.00	0.00	500.00
3630	-15462	-15461	-15527	-15528	MG	0.00	0.00	500.00
3630	-12102	-12120	-12165	-12070	MG	0.00	0.00	500.00
3630	-12120	-12248	-12249	-12165	MG	0.00	0.00	500.00
3630	-15660	-15659	-15725	-15726	MG	0.00	0.00	500.00
3630	-12320	-12388	-12389	-12321	MG	0.00	0.00	500.00
3630	-15792	-15791	-15857	-15858	MG	0.00	0.00	500.00
3630	-15857	-15924	-15925	-15858	MG	0.00	0.00	500.00
3630	-11767	-11833	-11834	-11768	MG	0.00	0.00	500.00
3630	-11833	-11901	-11902	-11834	MG	0.00	0.00	500.00



3630	-15397	-15396	-15462	-15463	MG	0.00	0.00	500.00
3630	-15463	-15462	-15528	-15529	MG	0.00	0.00	500.00
3630	-15529	-15528	-15594	-15595	MG	0.00	0.00	500.00
3630	-15595	-15594	-15660	-15661	MG	0.00	0.00	500.00
3630	-15661	-15660	-15726	-15727	MG	0.00	0.00	500.00
3630	-15727	-15726	-15792	-15793	MG	0.00	0.00	500.00
3630	-12389	-12455	-12456	-12390	MG	0.00	0.00	500.00
3630	-12455	-12539	-12550	-12456	MG	0.00	0.00	500.00
3630	-15266	-15265	-15331	-15332	MG	0.00	0.00	500.00
3630	-15332	-15331	-15397	-15398	MG	0.00	0.00	500.00
3630	-15398	-15397	-15463	-15464	MG	0.00	0.00	500.00
3630	-15464	-15463	-15529	-15530	MG	0.00	0.00	500.00
3630	-15530	-15529	-15595	-15596	MG	0.00	0.00	500.00
3630	-15596	-15595	-15661	-15662	MG	0.00	0.00	500.00
3630	-15662	-15661	-15727	-15728	MG	0.00	0.00	500.00
3630	-15728	-15727	-15793	-15794	MG	0.00	0.00	500.00
3630	-15794	-15793	-15859	-15860	MG	0.00	0.00	500.00
3630	-15860	-15859	-15926	-15927	MG	0.00	0.00	500.00
3630	-11769	-11835	-11836	-11770	MG	0.00	0.00	500.00
3630	-11835	-11903	-11904	-11836	MG	0.00	0.00	500.00
3630	-11903	-12001	-11941	-11904	MG	0.00	0.00	500.00
3630	-15465	-15464	-15530	-15531	MG	0.00	0.00	500.00
3630	-12055	-12188	-12122	-12024	MG	0.00	0.00	500.00
3630	-15597	-15596	-15662	-15663	MG	0.00	0.00	500.00
3630	-15663	-15662	-15728	-15729	MG	0.00	0.00	500.00
3630	-15729	-15728	-15794	-15795	MG	0.00	0.00	500.00
3630	-15795	-15794	-15860	-15861	MG	0.00	0.00	500.00
3630	-15861	-15860	-15927	-15928	MG	0.00	0.00	500.00
3630	-15268	-15267	-15333	-15334	MG	0.00	0.00	500.00
3630	-15334	-15333	-15399	-15400	MG	0.00	0.00	500.00
3630	-15400	-15399	-15465	-15466	MG	0.00	0.00	500.00
3630	-11941	-12024	-12071	-12002	MG	0.00	0.00	500.00
3630	-12024	-12122	-12172	-12071	MG	0.00	0.00	500.00
3630	-15598	-15597	-15663	-15664	MG	0.00	0.00	500.00
3630	-12252	-12324	-12325	-12253	MG	0.00	0.00	500.00
3630	-12324	-12392	-12393	-12325	MG	0.00	0.00	500.00
3630	-12392	-12458	-12459	-12393	MG	0.00	0.00	500.00
3630	-12458	-12541	-12542	-12459	MG	0.00	0.00	500.00
3630	-11771	-11837	-11838	-11772	MG	0.00	0.00	500.00
3630	-11837	-11905	-11906	-11838	MG	0.00	0.00	500.00
3630	-15401	-15400	-15466	-15467	MG	0.00	0.00	500.00
3630	-15467	-15466	-15532	-15533	MG	0.00	0.00	500.00
3630	-15533	-15532	-15598	-15599	MG	0.00	0.00	500.00
3630	-15599	-15598	-15664	-15665	MG	0.00	0.00	500.00
3630	-15665	-15664	-15730	-15731	MG	0.00	0.00	500.00
3630	-12325	-12393	-12394	-12326	MG	0.00	0.00	500.00
3630	-12393	-12459	-12460	-12394	MG	0.00	0.00	500.00
3630	-12459	-12542	-12543	-12460	MG	0.00	0.00	500.00
3630	-15270	-15269	-15335	-15336	MG	0.00	0.00	500.00
3630	-15336	-15335	-15401	-15402	MG	0.00	0.00	500.00
3630	-15402	-15401	-15467	-15468	MG	0.00	0.00	500.00
3630	-15468	-15467	-15533	-15534	MG	0.00	0.00	500.00
3630	-15534	-15533	-15599	-15600	MG	0.00	0.00	500.00
3630	-13610	-13676	-13677	-13611	MG	0.00	0.00	500.00
3630	-13676	-13742	-13743	-13677	MG	0.00	0.00	500.00
3630	-15732	-15731	-15797	-15798	MG	0.00	0.00	500.00
3630	-15798	-15797	-15863	-15864	MG	0.00	0.00	500.00
3630	-15864	-15863	-15930	-15931	MG	0.00	0.00	500.00
3630	-15920	-15919	-15985	-15986	MG	0.00	0.00	500.00
3630	-15986	-15985	-16051	-16052	MG	0.00	0.00	500.00
3630	-16052	-16051	-16117	-16118	MG	0.00	0.00	500.00
3630	-16118	-16117	-16183	-16184	MG	0.00	0.00	500.00
3630	-16184	-16183	-16249	-16250	MG	0.00	0.00	500.00
3630	-16250	-16249	-16315	-16316	MG	0.00	0.00	500.00
3630	-16316	-16315	-16381	-16382	MG	0.00	0.00	500.00
3630	-13743	-13809	-13810	-13744	MG	0.00	0.00	500.00
3630	-13809	-13875	-13876	-13810	MG	0.00	0.00	500.00
3630	-13875	-13943	-13944	-13876	MG	0.00	0.00	500.00
3630	-15921	-15920	-15986	-15987	MG	0.00	0.00	500.00
3630	-15987	-15986	-16052	-16053	MG	0.00	0.00	500.00
3630	-16053	-16052	-16118	-16119	MG	0.00	0.00	500.00
3630	-13476	-13546	-13547	-13477	MG	0.00	0.00	500.00
3630	-13546	-13612	-13613	-13547	MG	0.00	0.00	500.00
3630	-13612	-13678	-13679	-13613	MG	0.00	0.00	500.00
3630	-13678	-13744	-13745	-13679	MG	0.00	0.00	500.00
3630	-13744	-13810	-13811	-13745	MG	0.00	0.00	500.00
3630	-15734	-15735	-15801	-15800	MG	0.00	0.00	500.00
3630	-15735	-15736	-15802	-15801	MG	0.00	0.00	500.00
3630	-15922	-15921	-15987	-15988	MG	0.00	0.00	500.00

3630	-15988	-15987	-16053	-16054	MG	0.00	0.00	500.00
3630	-13405	-13477	-13478	-13406	MG	0.00	0.00	500.00
3630	-16120	-16119	-16185	-16186	MG	0.00	0.00	500.00
3630	-16186	-16185	-16251	-16252	MG	0.00	0.00	500.00
3630	-16252	-16251	-16317	-16318	MG	0.00	0.00	500.00
3630	-13679	-13745	-13746	-13680	MG	0.00	0.00	500.00
3630	-15338	-15339	-15405	-15404	MG	0.00	0.00	500.00
3630	-13811	-13877	-13878	-13812	MG	0.00	0.00	500.00
3630	-15142	-15143	-15207	-15206	MG	0.00	0.00	500.00
3630	-15923	-15922	-15988	-15989	MG	0.00	0.00	500.00
3630	-15989	-15988	-16054	-16055	MG	0.00	0.00	500.00
3630	-13406	-13478	-13479	-13407	MG	0.00	0.00	500.00
3630	-13478	-13548	-13549	-13479	MG	0.00	0.00	500.00
3630	-16187	-16186	-16252	-16253	MG	0.00	0.00	500.00
3630	-16253	-16252	-16318	-16319	MG	0.00	0.00	500.00
3630	-16319	-16318	-16384	-16385	MG	0.00	0.00	500.00
3630	-14940	-14941	-15007	-15006	MG	0.00	0.00	500.00
3630	-14742	-14743	-14809	-14808	MG	0.00	0.00	500.00
3630	-14807	-14808	-14874	-14873	MG	0.00	0.00	500.00
3630	-14808	-14809	-14875	-14874	MG	0.00	0.00	500.00
3630	-15990	-15989	-16055	-16056	MG	0.00	0.00	500.00
3630	-16056	-16055	-16121	-16122	MG	0.00	0.00	500.00
3630	-16122	-16121	-16187	-16188	MG	0.00	0.00	500.00
3630	-16188	-16187	-16253	-16254	MG	0.00	0.00	500.00
3630	-16254	-16253	-16319	-16320	MG	0.00	0.00	500.00
3630	-16320	-16319	-16385	-16386	MG	0.00	0.00	500.00
3630	-14340	-14341	-14407	-14406	MG	0.00	0.00	500.00
3630	-13813	-13879	-13880	-13814	MG	0.00	0.00	500.00
3630	-14406	-14407	-14473	-14472	MG	0.00	0.00	500.00
3630	-13595	-13661	-13662	-13596	MG	0.00	0.00	500.00
3630	-13341	-13408	-13409	-13342	MG	0.00	0.00	500.00
3630	-16057	-16056	-16122	-16123	MG	0.00	0.00	500.00
3630	-13480	-13550	-13551	-13481	MG	0.00	0.00	500.00
3630	-16189	-16188	-16254	-16255	MG	0.00	0.00	500.00
3630	-13616	-13682	-13683	-13617	MG	0.00	0.00	500.00
3630	-13682	-13748	-13749	-13683	MG	0.00	0.00	500.00
3630	-14006	-14007	-14078	-14077	MG	0.00	0.00	500.00
3630	-13814	-13880	-13881	-13815	MG	0.00	0.00	500.00
3630	-13803	-13804	-13870	-13869	MG	0.00	0.00	500.00
3630	-15926	-15925	-15991	-15992	MG	0.00	0.00	500.00
3630	-15992	-15991	-16057	-16058	MG	0.00	0.00	500.00
3630	-16058	-16057	-16123	-16124	MG	0.00	0.00	500.00
3630	-16124	-16123	-16189	-16190	MG	0.00	0.00	500.00
3630	-16190	-16189	-16255	-16256	MG	0.00	0.00	500.00
3630	-13617	-13683	-13684	-13618	MG	0.00	0.00	500.00
3630	-13683	-13749	-13750	-13684	MG	0.00	0.00	500.00
3630	-13749	-13815	-13816	-13750	MG	0.00	0.00	500.00
3630	-13397	-13398	-13470	-13469	MG	0.00	0.00	500.00
3630	-13468	-13469	-13539	-13538	MG	0.00	0.00	500.00
3630	-15927	-15926	-15992	-15993	MG	0.00	0.00	500.00
3630	-15993	-15992	-16058	-16059	MG	0.00	0.00	500.00
3630	-16059	-16058	-16124	-16125	MG	0.00	0.00	500.00
3630	-16125	-16124	-16190	-16191	MG	0.00	0.00	500.00
3630	-16191	-16190	-16256	-16257	MG	0.00	0.00	500.00
3630	-16257	-16256	-16322	-16323	MG	0.00	0.00	500.00
3630	-16323	-16322	-16388	-16389	MG	0.00	0.00	500.00
3630	-12974	-12975	-13054	-13053	MG	0.00	0.00	500.00
3630	-13052	-13053	-13085	-13128	MG	0.00	0.00	500.00
3630	-13053	-13054	-13117	-13085	MG	0.00	0.00	500.00
3630	-13275	-13344	-13345	-13276	MG	0.00	0.00	500.00
3630	-13344	-13411	-13412	-13345	MG	0.00	0.00	500.00
3630	-13411	-13483	-13484	-13412	MG	0.00	0.00	500.00
3630	-16126	-16125	-16191	-16192	MG	0.00	0.00	500.00
3630	-16192	-16191	-16257	-16258	MG	0.00	0.00	500.00
3630	-16258	-16257	-16323	-16324	MG	0.00	0.00	500.00
3630	-13685	-13751	-13752	-13686	MG	0.00	0.00	500.00
3630	-13751	-13817	-13818	-13752	MG	0.00	0.00	500.00
3630	-13817	-13883	-13884	-13818	MG	0.00	0.00	500.00
3630	-13883	-13951	-13952	-13884	MG	0.00	0.00	500.00
3630	-13276	-13345	-13346	-13277	MG	0.00	0.00	500.00
3630	-15995	-15994	-16060	-16061	MG	0.00	0.00	500.00
3630	-16061	-16060	-16126	-16127	MG	0.00	0.00	500.00
3630	-16127	-16126	-16192	-16193	MG	0.00	0.00	500.00
3630	-13554	-13620	-13621	-13555	MG	0.00	0.00	500.00
3630	-13620	-13686	-13687	-13621	MG	0.00	0.00	500.00
3630	-16325	-16324	-16390	-16391	MG	0.00	0.00	500.00
3630	-13752	-13818	-13819	-13753	MG	0.00	0.00	500.00
3630	-11867	-11885	-11972	-12010	MG	0.00	0.00	500.00
3630	-13884	-13952	-13953	-13885	MG	0.00	0.00	500.00

3630	-15930	-15929	-15995	-15996	MG	0.00	0.00	500.00
3630	-13346	-13413	-13414	-13347	MG	0.00	0.00	500.00
3630	-13413	-13485	-13486	-13414	MG	0.00	0.00	500.00
3630	-16128	-16127	-16193	-16194	MG	0.00	0.00	500.00
3630	-13555	-13621	-13622	-13556	MG	0.00	0.00	500.00
3630	-16260	-16259	-16325	-16326	MG	0.00	0.00	500.00
3630	-13687	-13753	-13754	-13688	MG	0.00	0.00	500.00
3630	-13753	-13819	-13820	-13754	MG	0.00	0.00	500.00
3630	-13819	-13885	-13886	-13820	MG	0.00	0.00	500.00
3630	-11547	-11548	-11618	-11617	MG	0.00	0.00	500.00
3630	-15931	-15930	-15996	-15997	MG	0.00	0.00	500.00
3630	-15997	-15996	-16062	-16063	MG	0.00	0.00	500.00
3630	-16063	-16062	-16128	-16129	MG	0.00	0.00	500.00
3630	-16129	-16128	-16194	-16195	MG	0.00	0.00	500.00
3630	-12827	-12897	-12898	-12828	MG	0.00	0.00	500.00
3630	-12897	-12964	-12978	-12898	MG	0.00	0.00	500.00
3630	-12964	-13058	-13059	-12978	MG	0.00	0.00	500.00
3630	-11136	-11137	-11203	-11202	MG	0.00	0.00	500.00
3630	-11137	-11138	-11204	-11203	MG	0.00	0.00	500.00
3630	-10929	-10930	-10995	-10994	MG	0.00	0.00	500.00
3630	-14594	-14593	-14661	-14662	MG	0.00	0.00	500.00
3630	-14662	-14661	-14727	-14728	MG	0.00	0.00	500.00
3630	-14728	-14727	-14793	-14794	MG	0.00	0.00	500.00
3630	-14794	-14793	-14859	-14860	MG	0.00	0.00	500.00
3630	-14860	-14859	-14925	-14926	MG	0.00	0.00	500.00
3630	-14926	-14925	-14991	-14992	MG	0.00	0.00	500.00
3630	-14992	-14991	-15057	-15058	MG	0.00	0.00	500.00
3630	-13059	-13130	-13121	-13060	MG	0.00	0.00	500.00
3630	-13130	-13201	-13202	-13121	MG	0.00	0.00	500.00
3630	-15192	-15191	-15258	-15259	MG	0.00	0.00	500.00
3630	-14595	-14594	-14662	-14663	MG	0.00	0.00	500.00
3630	-14663	-14662	-14728	-14729	MG	0.00	0.00	500.00
3630	-14729	-14728	-14794	-14795	MG	0.00	0.00	500.00
3630	-14795	-14794	-14860	-14861	MG	0.00	0.00	500.00
3630	-14861	-14860	-14926	-14927	MG	0.00	0.00	500.00
3630	-14927	-14926	-14992	-14993	MG	0.00	0.00	500.00
3630	-14993	-14992	-15058	-15059	MG	0.00	0.00	500.00
3630	-15059	-15058	-15124	-15135	MG	0.00	0.00	500.00
3630	-15135	-15124	-15192	-15193	MG	0.00	0.00	500.00
3630	-15193	-15192	-15259	-15260	MG	0.00	0.00	500.00
3630	-14596	-14595	-14663	-14664	MG	0.00	0.00	500.00
3630	-14664	-14663	-14729	-14730	MG	0.00	0.00	500.00
3630	-12689	-12760	-12761	-12690	MG	0.00	0.00	500.00
3630	-14796	-14795	-14861	-14862	MG	0.00	0.00	500.00
3630	-14862	-14861	-14927	-14928	MG	0.00	0.00	500.00
3630	-14928	-14927	-14993	-14994	MG	0.00	0.00	500.00
3630	-14994	-14993	-15059	-15060	MG	0.00	0.00	500.00
3630	-15060	-15059	-15135	-15125	MG	0.00	0.00	500.00
3630	-15125	-15135	-15193	-15194	MG	0.00	0.00	500.00
3630	-15194	-15193	-15260	-15261	MG	0.00	0.00	500.00
3630	-14597	-14596	-14664	-14665	MG	0.00	0.00	500.00
3630	-14665	-14664	-14730	-14731	MG	0.00	0.00	500.00
3630	-14731	-14730	-14796	-14797	MG	0.00	0.00	500.00
3630	-14797	-14796	-14862	-14863	MG	0.00	0.00	500.00
3630	-14863	-14862	-14928	-14929	MG	0.00	0.00	500.00
3630	-14929	-14928	-14994	-14995	MG	0.00	0.00	500.00
3630	-14995	-14994	-15060	-15061	MG	0.00	0.00	500.00
3630	-15061	-15060	-15125	-15136	MG	0.00	0.00	500.00
3630	-15136	-15125	-15194	-15195	MG	0.00	0.00	500.00
3630	-15195	-15194	-15261	-15262	MG	0.00	0.00	500.00
3630	-14598	-14597	-14665	-14666	MG	0.00	0.00	500.00
3630	-14666	-14665	-14731	-14732	MG	0.00	0.00	500.00
3630	-14732	-14731	-14797	-14798	MG	0.00	0.00	500.00
3630	-14798	-14797	-14863	-14864	MG	0.00	0.00	500.00
3630	-14864	-14863	-14929	-14930	MG	0.00	0.00	500.00
3630	-14930	-14929	-14995	-14996	MG	0.00	0.00	500.00
3630	-14996	-14995	-15061	-15062	MG	0.00	0.00	500.00
3630	-15062	-15061	-15136	-15096	MG	0.00	0.00	500.00
3630	-15096	-15136	-15195	-15196	MG	0.00	0.00	500.00
3630	-15196	-15195	-15262	-15263	MG	0.00	0.00	500.00
3630	-14599	-14598	-14666	-14667	MG	0.00	0.00	500.00
3630	-14667	-14666	-14732	-14733	MG	0.00	0.00	500.00
3630	-14733	-14732	-14798	-14799	MG	0.00	0.00	500.00
3630	-14799	-14798	-14864	-14865	MG	0.00	0.00	500.00
3630	-14865	-14864	-14930	-14931	MG	0.00	0.00	500.00
3630	-14931	-14930	-14996	-14997	MG	0.00	0.00	500.00
3630	-14997	-14996	-15062	-15063	MG	0.00	0.00	500.00
3630	-15063	-15062	-15096	-15126	MG	0.00	0.00	500.00
3630	-15126	-15096	-15196	-15197	MG	0.00	0.00	500.00

3630	-15197	-15196	-15263	-15264	MG	0.00	0.00	500.00
3630	-14600	-14599	-14667	-14668	MG	0.00	0.00	500.00
3630	-14668	-14667	-14733	-14734	MG	0.00	0.00	500.00
3630	-14734	-14733	-14799	-14800	MG	0.00	0.00	500.00
3630	-14800	-14799	-14865	-14866	MG	0.00	0.00	500.00
3630	-14866	-14865	-14931	-14932	MG	0.00	0.00	500.00
3630	-14932	-14931	-14997	-14998	MG	0.00	0.00	500.00
3630	-14998	-14997	-15063	-15064	MG	0.00	0.00	500.00
3630	-15064	-15063	-15126	-15137	MG	0.00	0.00	500.00
3630	-15137	-15126	-15197	-15198	MG	0.00	0.00	500.00
3630	-15198	-15197	-15264	-15265	MG	0.00	0.00	500.00
3630	-14601	-14600	-14668	-14669	MG	0.00	0.00	500.00
3630	-14669	-14668	-14734	-14735	MG	0.00	0.00	500.00
3630	-14735	-14734	-14800	-14801	MG	0.00	0.00	500.00
3630	-14801	-14800	-14866	-14867	MG	0.00	0.00	500.00
3630	-14867	-14866	-14932	-14933	MG	0.00	0.00	500.00
3630	-14933	-14932	-14998	-14999	MG	0.00	0.00	500.00
3630	-14999	-14998	-15064	-15065	MG	0.00	0.00	500.00
3630	-15065	-15064	-15137	-15138	MG	0.00	0.00	500.00
3630	-15138	-15137	-15198	-15199	MG	0.00	0.00	500.00
3630	-15199	-15198	-15265	-15266	MG	0.00	0.00	500.00
3630	-14602	-14601	-14669	-14670	MG	0.00	0.00	500.00
3630	-14670	-14669	-14735	-14736	MG	0.00	0.00	500.00
3630	-14736	-14735	-14801	-14802	MG	0.00	0.00	500.00
3630	-14802	-14801	-14867	-14868	MG	0.00	0.00	500.00
3630	-14868	-14867	-14933	-14934	MG	0.00	0.00	500.00
3630	-14934	-14933	-14999	-15000	MG	0.00	0.00	500.00
3630	-15000	-14999	-15065	-15066	MG	0.00	0.00	500.00
3630	-15066	-15065	-15138	-15139	MG	0.00	0.00	500.00
3630	-15139	-15138	-15199	-15200	MG	0.00	0.00	500.00
3630	-15200	-15199	-15266	-15267	MG	0.00	0.00	500.00
3630	-14603	-14602	-14670	-14671	MG	0.00	0.00	500.00
3630	-14671	-14670	-14736	-14737	MG	0.00	0.00	500.00
3630	-14737	-14736	-14802	-14803	MG	0.00	0.00	500.00
3630	-14803	-14802	-14868	-14869	MG	0.00	0.00	500.00
3630	-14869	-14868	-14934	-14935	MG	0.00	0.00	500.00
3630	-14935	-14934	-15000	-15001	MG	0.00	0.00	500.00
3630	-15001	-15000	-15066	-15067	MG	0.00	0.00	500.00
3630	-15067	-15066	-15139	-15127	MG	0.00	0.00	500.00
3630	-15127	-15139	-15200	-15201	MG	0.00	0.00	500.00
3630	-15201	-15200	-15267	-15268	MG	0.00	0.00	500.00
3630	-14604	-14603	-14671	-14672	MG	0.00	0.00	500.00
3630	-14672	-14671	-14737	-14738	MG	0.00	0.00	500.00
3630	-14738	-14737	-14803	-14804	MG	0.00	0.00	500.00
3630	-14804	-14803	-14869	-14870	MG	0.00	0.00	500.00
3630	-14870	-14869	-14935	-14936	MG	0.00	0.00	500.00
3630	-14936	-14935	-15001	-15002	MG	0.00	0.00	500.00
3630	-15002	-15001	-15067	-15068	MG	0.00	0.00	500.00
3630	-15068	-15067	-15127	-15128	MG	0.00	0.00	500.00
3630	-15128	-15127	-15201	-15202	MG	0.00	0.00	500.00
3630	-15202	-15201	-15268	-15269	MG	0.00	0.00	500.00
3630	-14605	-14604	-14672	-14673	MG	0.00	0.00	500.00
3630	-14673	-14672	-14738	-14739	MG	0.00	0.00	500.00
3630	-14739	-14738	-14804	-14805	MG	0.00	0.00	500.00
3630	-14805	-14804	-14870	-14871	MG	0.00	0.00	500.00
3630	-14871	-14870	-14936	-14937	MG	0.00	0.00	500.00
3630	-14937	-14936	-15002	-15003	MG	0.00	0.00	500.00
3630	-15003	-15002	-15068	-15069	MG	0.00	0.00	500.00
3630	-15069	-15068	-15128	-15129	MG	0.00	0.00	500.00
3630	-15129	-15128	-15202	-15203	MG	0.00	0.00	500.00
3630	-15203	-15202	-15269	-15270	MG	0.00	0.00	500.00
3630	-13934	-13933	-14003	-14004	MG	0.00	0.00	500.00
3630	-13933	-13932	-14002	-14003	MG	0.00	0.00	500.00
3630	-13932	-13931	-14001	-14002	MG	0.00	0.00	500.00
3630	-13931	-13930	-14000	-14001	MG	0.00	0.00	500.00
3630	-13930	-13929	-13999	-14000	MG	0.00	0.00	500.00
3630	-13929	-13928	-13998	-13999	MG	0.00	0.00	500.00
3630	-13928	-13927	-13997	-13998	MG	0.00	0.00	500.00
3630	-13927	-13926	-13996	-13997	MG	0.00	0.00	500.00
3630	-13926	-13925	-13995	-13996	MG	0.00	0.00	500.00
3630	-13925	-13924	-13994	-13995	MG	0.00	0.00	500.00
3630	-13924	-13923	-13993	-13994	MG	0.00	0.00	500.00
3630	-13923	-13922	-13992	-13993	MG	0.00	0.00	500.00
3630	-14004	-14003	-14075	-14076	MG	0.00	0.00	500.00
3630	-14003	-14002	-14074	-14075	MG	0.00	0.00	500.00
3630	-14002	-14001	-14073	-14074	MG	0.00	0.00	500.00
3630	-14001	-14000	-14072	-14073	MG	0.00	0.00	500.00
3630	-14000	-13999	-14071	-14072	MG	0.00	0.00	500.00
3630	-13999	-13998	-14070	-14071	MG	0.00	0.00	500.00

3630	-13998	-13997	-14062	-14070	MG	0.00	0.00	500.00
3630	-13997	-13996	-14061	-14062	MG	0.00	0.00	500.00
3630	-13996	-13995	-14060	-14061	MG	0.00	0.00	500.00
3630	-13995	-13994	-14059	-14060	MG	0.00	0.00	500.00
3630	-13994	-13993	-14058	-14059	MG	0.00	0.00	500.00
3630	-13993	-13992	-14057	-14058	MG	0.00	0.00	500.00
3630	-14076	-14075	-14138	-14139	MG	0.00	0.00	500.00
3630	-14075	-14074	-14137	-14138	MG	0.00	0.00	500.00
3630	-14074	-14073	-14136	-14137	MG	0.00	0.00	500.00
3630	-14073	-14072	-14135	-14136	MG	0.00	0.00	500.00
3630	-14072	-14071	-14134	-14135	MG	0.00	0.00	500.00
3630	-14071	-14070	-14133	-14134	MG	0.00	0.00	500.00
3630	-14070	-14062	-14132	-14133	MG	0.00	0.00	500.00
3630	-14062	-14061	-14131	-14132	MG	0.00	0.00	500.00
3630	-14061	-14060	-14130	-14131	MG	0.00	0.00	500.00
3630	-14060	-14059	-14129	-14130	MG	0.00	0.00	500.00
3630	-14059	-14058	-14128	-14129	MG	0.00	0.00	500.00
3630	-14058	-14057	-14127	-14128	MG	0.00	0.00	500.00
3630	-14139	-14138	-14204	-14205	MG	0.00	0.00	500.00
3630	-14138	-14137	-14203	-14204	MG	0.00	0.00	500.00
3630	-14137	-14136	-14202	-14203	MG	0.00	0.00	500.00
3630	-14136	-14135	-14201	-14202	MG	0.00	0.00	500.00
3630	-14135	-14134	-14200	-14201	MG	0.00	0.00	500.00
3630	-14134	-14133	-14199	-14200	MG	0.00	0.00	500.00
3630	-14133	-14132	-14198	-14199	MG	0.00	0.00	500.00
3630	-14132	-14131	-14197	-14198	MG	0.00	0.00	500.00
3630	-14131	-14130	-14196	-14197	MG	0.00	0.00	500.00
3630	-14130	-14129	-14195	-14196	MG	0.00	0.00	500.00
3630	-14129	-14128	-14194	-14195	MG	0.00	0.00	500.00
3630	-14128	-14127	-14193	-14194	MG	0.00	0.00	500.00
3630	-14205	-14204	-14270	-14271	MG	0.00	0.00	500.00
3630	-14204	-14203	-14269	-14270	MG	0.00	0.00	500.00
3630	-14203	-14202	-14268	-14269	MG	0.00	0.00	500.00
3630	-14202	-14201	-14267	-14268	MG	0.00	0.00	500.00
3630	-14201	-14200	-14266	-14267	MG	0.00	0.00	500.00
3630	-14200	-14199	-14265	-14266	MG	0.00	0.00	500.00
3630	-14199	-14198	-14264	-14265	MG	0.00	0.00	500.00
3630	-14198	-14197	-14263	-14264	MG	0.00	0.00	500.00
3630	-14197	-14196	-14262	-14263	MG	0.00	0.00	500.00
3630	-14196	-14195	-14261	-14262	MG	0.00	0.00	500.00
3630	-14195	-14194	-14260	-14261	MG	0.00	0.00	500.00
3630	-14194	-14193	-14259	-14260	MG	0.00	0.00	500.00
3630	-14271	-14270	-14336	-14337	MG	0.00	0.00	500.00
3630	-14270	-14269	-14335	-14336	MG	0.00	0.00	500.00
3630	-14269	-14268	-14334	-14335	MG	0.00	0.00	500.00
3630	-14268	-14267	-14333	-14334	MG	0.00	0.00	500.00
3630	-14267	-14266	-14332	-14333	MG	0.00	0.00	500.00
3630	-14266	-14265	-14331	-14332	MG	0.00	0.00	500.00
3630	-14265	-14264	-14330	-14331	MG	0.00	0.00	500.00
3630	-14264	-14263	-14329	-14330	MG	0.00	0.00	500.00
3630	-14263	-14262	-14328	-14329	MG	0.00	0.00	500.00
3630	-14262	-14261	-14327	-14328	MG	0.00	0.00	500.00
3630	-14261	-14260	-14326	-14327	MG	0.00	0.00	500.00
3630	-14260	-14259	-14325	-14326	MG	0.00	0.00	500.00
3630	-14337	-14336	-14402	-14403	MG	0.00	0.00	500.00
3630	-14336	-14335	-14401	-14402	MG	0.00	0.00	500.00
3630	-14335	-14334	-14400	-14401	MG	0.00	0.00	500.00
3630	-14334	-14333	-14399	-14400	MG	0.00	0.00	500.00
3630	-14333	-14332	-14398	-14399	MG	0.00	0.00	500.00
3630	-14332	-14331	-14397	-14398	MG	0.00	0.00	500.00
3630	-14331	-14330	-14396	-14397	MG	0.00	0.00	500.00
3630	-14330	-14329	-14395	-14396	MG	0.00	0.00	500.00
3630	-14329	-14328	-14394	-14395	MG	0.00	0.00	500.00
3630	-14328	-14327	-14393	-14394	MG	0.00	0.00	500.00
3630	-14327	-14326	-14392	-14393	MG	0.00	0.00	500.00
3630	-14326	-14325	-14391	-14392	MG	0.00	0.00	500.00
3630	-14403	-14402	-14468	-14469	MG	0.00	0.00	500.00
3630	-14402	-14401	-14467	-14468	MG	0.00	0.00	500.00
3630	-14401	-14400	-14466	-14467	MG	0.00	0.00	500.00
3630	-14400	-14399	-14465	-14466	MG	0.00	0.00	500.00
3630	-14399	-14398	-14464	-14465	MG	0.00	0.00	500.00
3630	-14398	-14397	-14463	-14464	MG	0.00	0.00	500.00
3630	-14397	-14396	-14462	-14463	MG	0.00	0.00	500.00
3630	-14396	-14395	-14461	-14462	MG	0.00	0.00	500.00
3630	-14395	-14394	-14460	-14461	MG	0.00	0.00	500.00
3630	-14394	-14393	-14459	-14460	MG	0.00	0.00	500.00
3630	-14393	-14392	-14458	-14459	MG	0.00	0.00	500.00
3630	-14392	-14391	-14457	-14458	MG	0.00	0.00	500.00
3630	-14469	-14468	-14534	-14535	MG	0.00	0.00	500.00

3630	-14468	-14467	-14533	-14534	MG	0.00	0.00	500.00
3630	-14467	-14466	-14532	-14533	MG	0.00	0.00	500.00
3630	-14466	-14465	-14531	-14532	MG	0.00	0.00	500.00
3630	-14465	-14464	-14530	-14531	MG	0.00	0.00	500.00
3630	-14464	-14463	-14529	-14530	MG	0.00	0.00	500.00
3630	-14463	-14462	-14528	-14529	MG	0.00	0.00	500.00
3630	-14462	-14461	-14527	-14528	MG	0.00	0.00	500.00
3630	-14461	-14460	-14526	-14527	MG	0.00	0.00	500.00
3630	-14460	-14459	-14525	-14526	MG	0.00	0.00	500.00
3630	-14459	-14458	-14524	-14525	MG	0.00	0.00	500.00
3630	-14458	-14457	-14523	-14524	MG	0.00	0.00	500.00
3630	-14535	-14534	-14604	-14605	MG	0.00	0.00	500.00
3630	-14534	-14533	-14603	-14604	MG	0.00	0.00	500.00
3630	-14533	-14532	-14602	-14603	MG	0.00	0.00	500.00
3630	-14532	-14531	-14601	-14602	MG	0.00	0.00	500.00
3630	-14531	-14530	-14600	-14601	MG	0.00	0.00	500.00
3630	-14530	-14529	-14599	-14600	MG	0.00	0.00	500.00
3630	-14529	-14528	-14598	-14599	MG	0.00	0.00	500.00
3630	-14528	-14527	-14597	-14598	MG	0.00	0.00	500.00
3630	-14527	-14526	-14596	-14597	MG	0.00	0.00	500.00
3630	-14526	-14525	-14595	-14596	MG	0.00	0.00	500.00
3630	-14525	-14524	-14594	-14595	MG	0.00	0.00	500.00
3630	-14524	-14523	-14593	-14594	MG	0.00	0.00	500.00
3630	-11806	-11861	-11862	-11807	MG	0.00	0.00	500.00
3630	-11861	-11994	-11995	-11862	MG	0.00	0.00	500.00
3630	-11994	-12095	-12019	-11995	MG	0.00	0.00	500.00
3630	-12095	-12143	-12157	-12019	MG	0.00	0.00	500.00
3630	-12143	-12222	-12223	-12157	MG	0.00	0.00	500.00
3630	-12222	-12294	-12295	-12223	MG	0.00	0.00	500.00
3630	-12294	-12362	-12363	-12295	MG	0.00	0.00	500.00
3630	-12362	-12428	-12429	-12363	MG	0.00	0.00	500.00
3630	-12428	-12508	-12509	-12429	MG	0.00	0.00	500.00
3630	-11741	-11807	-11808	-11742	MG	0.00	0.00	500.00
3630	-11807	-11862	-11876	-11808	MG	0.00	0.00	500.00
3630	-11862	-11995	-11947	-11876	MG	0.00	0.00	500.00
3630	-11995	-12019	-12060	-11947	MG	0.00	0.00	500.00
3630	-12019	-12157	-12158	-12060	MG	0.00	0.00	500.00
3630	-12157	-12223	-12224	-12158	MG	0.00	0.00	500.00
3630	-12223	-12295	-12296	-12224	MG	0.00	0.00	500.00
3630	-12295	-12363	-12364	-12296	MG	0.00	0.00	500.00
3630	-12363	-12429	-12430	-12364	MG	0.00	0.00	500.00
3630	-12429	-12509	-12510	-12430	MG	0.00	0.00	500.00
3630	-11742	-11808	-11809	-11743	MG	0.00	0.00	500.00
3630	-11808	-11876	-11863	-11809	MG	0.00	0.00	500.00
3630	-11876	-11947	-11937	-11863	MG	0.00	0.00	500.00
3630	-11947	-12060	-12034	-11937	MG	0.00	0.00	500.00
3630	-12060	-12158	-12108	-12034	MG	0.00	0.00	500.00
3630	-12158	-12224	-12225	-12108	MG	0.00	0.00	500.00
3630	-12224	-12296	-12297	-12225	MG	0.00	0.00	500.00
3630	-12296	-12364	-12365	-12297	MG	0.00	0.00	500.00
3630	-12364	-12430	-12431	-12365	MG	0.00	0.00	500.00
3630	-12430	-12510	-12511	-12431	MG	0.00	0.00	500.00
3630	-11743	-11809	-11810	-11744	MG	0.00	0.00	500.00
3630	-11809	-11863	-11877	-11810	MG	0.00	0.00	500.00
3630	-11863	-11937	-11967	-11877	MG	0.00	0.00	500.00
3630	-11937	-12034	-12061	-11967	MG	0.00	0.00	500.00
3630	-12034	-12108	-12109	-12061	MG	0.00	0.00	500.00
3630	-12108	-12225	-12226	-12109	MG	0.00	0.00	500.00
3630	-12225	-12297	-12298	-12226	MG	0.00	0.00	500.00
3630	-12297	-12365	-12366	-12298	MG	0.00	0.00	500.00
3630	-12365	-12431	-12432	-12366	MG	0.00	0.00	500.00
3630	-12431	-12511	-12512	-12432	MG	0.00	0.00	500.00
3630	-11744	-11810	-11811	-11745	MG	0.00	0.00	500.00
3630	-11810	-11877	-11864	-11811	MG	0.00	0.00	500.00
3630	-11877	-11967	-11938	-11864	MG	0.00	0.00	500.00
3630	-11967	-12061	-12020	-11938	MG	0.00	0.00	500.00
3630	-12061	-12109	-12110	-12020	MG	0.00	0.00	500.00
3630	-12109	-12226	-12227	-12110	MG	0.00	0.00	500.00
3630	-12226	-12298	-12299	-12227	MG	0.00	0.00	500.00
3630	-12298	-12366	-12367	-12299	MG	0.00	0.00	500.00
3630	-12366	-12432	-12433	-12367	MG	0.00	0.00	500.00
3630	-12432	-12512	-12513	-12433	MG	0.00	0.00	500.00
3630	-11745	-11811	-11812	-11746	MG	0.00	0.00	500.00
3630	-11811	-11864	-11865	-11812	MG	0.00	0.00	500.00
3630	-11864	-11938	-11996	-11865	MG	0.00	0.00	500.00
3630	-11938	-12020	-12062	-11996	MG	0.00	0.00	500.00
3630	-12020	-12110	-12159	-12062	MG	0.00	0.00	500.00
3630	-12110	-12227	-12228	-12159	MG	0.00	0.00	500.00
3630	-12227	-12299	-12300	-12228	MG	0.00	0.00	500.00

3630	-12299	-12367	-12368	-12300	MG	0.00	0.00	500.00
3630	-12367	-12433	-12434	-12368	MG	0.00	0.00	500.00
3630	-12433	-12513	-12525	-12434	MG	0.00	0.00	500.00
3630	-11746	-11812	-11813	-11747	MG	0.00	0.00	500.00
3630	-11812	-11865	-11878	-11813	MG	0.00	0.00	500.00
3630	-11865	-11996	-11948	-11878	MG	0.00	0.00	500.00
3630	-11996	-12062	-12063	-11948	MG	0.00	0.00	500.00
3630	-12062	-12159	-12170	-12063	MG	0.00	0.00	500.00
3630	-12159	-12228	-12229	-12170	MG	0.00	0.00	500.00
3630	-12228	-12300	-12301	-12229	MG	0.00	0.00	500.00
3630	-12300	-12368	-12369	-12301	MG	0.00	0.00	500.00
3630	-12368	-12434	-12435	-12369	MG	0.00	0.00	500.00
3630	-12434	-12525	-12514	-12435	MG	0.00	0.00	500.00
3630	-11747	-11813	-11814	-11748	MG	0.00	0.00	500.00
3630	-11813	-11878	-11866	-11814	MG	0.00	0.00	500.00
3630	-11878	-11948	-11968	-11866	MG	0.00	0.00	500.00
3630	-11948	-12063	-12035	-11968	MG	0.00	0.00	500.00
3630	-12063	-12170	-12144	-12035	MG	0.00	0.00	500.00
3630	-12170	-12229	-12230	-12144	MG	0.00	0.00	500.00
3630	-12229	-12301	-12302	-12230	MG	0.00	0.00	500.00
3630	-12301	-12369	-12370	-12302	MG	0.00	0.00	500.00
3630	-12369	-12435	-12436	-12370	MG	0.00	0.00	500.00
3630	-12435	-12514	-12515	-12436	MG	0.00	0.00	500.00
3630	-11748	-11814	-11815	-11749	MG	0.00	0.00	500.00
3630	-11814	-11866	-11879	-11815	MG	0.00	0.00	500.00
3630	-11866	-11968	-11969	-11879	MG	0.00	0.00	500.00
3630	-11968	-12035	-12096	-11969	MG	0.00	0.00	500.00
3630	-12035	-12144	-12185	-12096	MG	0.00	0.00	500.00
3630	-12144	-12230	-12231	-12185	MG	0.00	0.00	500.00
3630	-12230	-12302	-12303	-12231	MG	0.00	0.00	500.00
3630	-12302	-12370	-12371	-12303	MG	0.00	0.00	500.00
3630	-12370	-12436	-12437	-12371	MG	0.00	0.00	500.00
3630	-12436	-12515	-12516	-12437	MG	0.00	0.00	500.00
3630	-11749	-11815	-11816	-11750	MG	0.00	0.00	500.00
3630	-11815	-11879	-11880	-11816	MG	0.00	0.00	500.00
3630	-11879	-11969	-11997	-11880	MG	0.00	0.00	500.00
3630	-11969	-12096	-12021	-11997	MG	0.00	0.00	500.00
3630	-12096	-12185	-12111	-12021	MG	0.00	0.00	500.00
3630	-12185	-12231	-12232	-12111	MG	0.00	0.00	500.00
3630	-12231	-12303	-12304	-12232	MG	0.00	0.00	500.00
3630	-12303	-12371	-12372	-12304	MG	0.00	0.00	500.00
3630	-12371	-12437	-12438	-12372	MG	0.00	0.00	500.00
3630	-12437	-12516	-12526	-12438	MG	0.00	0.00	500.00
3630	-11750	-11816	-11817	-11751	MG	0.00	0.00	500.00
3630	-11816	-11880	-11881	-11817	MG	0.00	0.00	500.00
3630	-11880	-11997	-11970	-11881	MG	0.00	0.00	500.00
3630	-11997	-12021	-12064	-11970	MG	0.00	0.00	500.00
3630	-12021	-12111	-12112	-12064	MG	0.00	0.00	500.00
3630	-12111	-12232	-12233	-12112	MG	0.00	0.00	500.00
3630	-12232	-12304	-12305	-12233	MG	0.00	0.00	500.00
3630	-12304	-12372	-12373	-12305	MG	0.00	0.00	500.00
3630	-12372	-12438	-12439	-12373	MG	0.00	0.00	500.00
3630	-12438	-12526	-12527	-12439	MG	0.00	0.00	500.00
3630	-11751	-11817	-11818	-11752	MG	0.00	0.00	500.00
3630	-11817	-11881	-11882	-11818	MG	0.00	0.00	500.00
3630	-11881	-11970	-12009	-11882	MG	0.00	0.00	500.00
3630	-11970	-12064	-12097	-12009	MG	0.00	0.00	500.00
3630	-12064	-12112	-12160	-12097	MG	0.00	0.00	500.00
3630	-12112	-12233	-12234	-12160	MG	0.00	0.00	500.00
3630	-12233	-12305	-12306	-12234	MG	0.00	0.00	500.00
3630	-12305	-12373	-12374	-12306	MG	0.00	0.00	500.00
3630	-12373	-12439	-12440	-12374	MG	0.00	0.00	500.00
3630	-12439	-12527	-12547	-12440	MG	0.00	0.00	500.00
3630	-10277	-10338	-10339	-10278	MG	0.00	0.00	500.00
3630	-10338	-10416	-10417	-10339	MG	0.00	0.00	500.00
3630	-10416	-10486	-10487	-10417	MG	0.00	0.00	500.00
3630	-10486	-10581	-10551	-10487	MG	0.00	0.00	500.00
3630	-10581	-10681	-10693	-10551	MG	0.00	0.00	500.00
3630	-10681	-10772	-10773	-10693	MG	0.00	0.00	500.00
3630	-10772	-10837	-10838	-10773	MG	0.00	0.00	500.00
3630	-10837	-10912	-10913	-10838	MG	0.00	0.00	500.00
3630	-10912	-10979	-10980	-10913	MG	0.00	0.00	500.00
3630	-10979	-11060	-11061	-10980	MG	0.00	0.00	500.00
3630	-10278	-10339	-10340	-10279	MG	0.00	0.00	500.00
3630	-10339	-10417	-10418	-10340	MG	0.00	0.00	500.00
3630	-10417	-10487	-10488	-10418	MG	0.00	0.00	500.00
3630	-10487	-10551	-10540	-10488	MG	0.00	0.00	500.00
3630	-10551	-10693	-10682	-10540	MG	0.00	0.00	500.00
3630	-10693	-10773	-10774	-10682	MG	0.00	0.00	500.00

3630	-10773	-10838	-10839	-10774	MG	0.00	0.00	500.00
3630	-10838	-10913	-10918	-10839	MG	0.00	0.00	500.00
3630	-10913	-10980	-10981	-10918	MG	0.00	0.00	500.00
3630	-10980	-11061	-11062	-10981	MG	0.00	0.00	500.00
3630	-10279	-10340	-10341	-10280	MG	0.00	0.00	500.00
3630	-10340	-10418	-10419	-10341	MG	0.00	0.00	500.00
3630	-10418	-10488	-10489	-10419	MG	0.00	0.00	500.00
3630	-10488	-10540	-10582	-10489	MG	0.00	0.00	500.00
3630	-10540	-10682	-10683	-10582	MG	0.00	0.00	500.00
3630	-10682	-10774	-10775	-10683	MG	0.00	0.00	500.00
3630	-10774	-10839	-10853	-10775	MG	0.00	0.00	500.00
3630	-11899	-12012	-12013	-11891	MG	0.00	0.00	500.00
3630	-10918	-10981	-10982	-10919	MG	0.00	0.00	500.00
3630	-10981	-11062	-11038	-10982	MG	0.00	0.00	500.00
3630	-10280	-10341	-10342	-10281	MG	0.00	0.00	500.00
3630	-10341	-10419	-10420	-10342	MG	0.00	0.00	500.00
3630	-10419	-10489	-10490	-10420	MG	0.00	0.00	500.00
3630	-10489	-10582	-10583	-10490	MG	0.00	0.00	500.00
3630	-10582	-10683	-10694	-10583	MG	0.00	0.00	500.00
3630	-10683	-10775	-10776	-10694	MG	0.00	0.00	500.00
3630	-10775	-10853	-10807	-10776	MG	0.00	0.00	500.00
3630	-10853	-10919	-10920	-10807	MG	0.00	0.00	500.00
3630	-10919	-10982	-10983	-10920	MG	0.00	0.00	500.00
3630	-10982	-11038	-11063	-10983	MG	0.00	0.00	500.00
3630	-10281	-10342	-10343	-10282	MG	0.00	0.00	500.00
3630	-10342	-10420	-10435	-10343	MG	0.00	0.00	500.00
3630	-10420	-10490	-10491	-10435	MG	0.00	0.00	500.00
3630	-10490	-10583	-10584	-10491	MG	0.00	0.00	500.00
3630	-10583	-10694	-10695	-10584	MG	0.00	0.00	500.00
3630	-10694	-10776	-10777	-10695	MG	0.00	0.00	500.00
3630	-10776	-10807	-10840	-10777	MG	0.00	0.00	500.00
3630	-10807	-10920	-10921	-10840	MG	0.00	0.00	500.00
3630	-10920	-10983	-10984	-10921	MG	0.00	0.00	500.00
3630	-10983	-11063	-11050	-10984	MG	0.00	0.00	500.00
3630	-10282	-10343	-10344	-10283	MG	0.00	0.00	500.00
3630	-10343	-10435	-10421	-10344	MG	0.00	0.00	500.00
3630	-10435	-10491	-10492	-10421	MG	0.00	0.00	500.00
3630	-10491	-10584	-10585	-10492	MG	0.00	0.00	500.00
3630	-10584	-10695	-10696	-10585	MG	0.00	0.00	500.00
3630	-10695	-10777	-10778	-10696	MG	0.00	0.00	500.00
3630	-10777	-10840	-10854	-10778	MG	0.00	0.00	500.00
3630	-10840	-10921	-10892	-10854	MG	0.00	0.00	500.00
3630	-10921	-10984	-10985	-10892	MG	0.00	0.00	500.00
3630	-10984	-11050	-11051	-10985	MG	0.00	0.00	500.00
3630	-10283	-10344	-10357	-10284	MG	0.00	0.00	500.00
3630	-10344	-10421	-10436	-10357	MG	0.00	0.00	500.00
3630	-10421	-10492	-10493	-10436	MG	0.00	0.00	500.00
3630	-10492	-10585	-10586	-10493	MG	0.00	0.00	500.00
3630	-10585	-10696	-10684	-10586	MG	0.00	0.00	500.00
3630	-10696	-10778	-10779	-10684	MG	0.00	0.00	500.00
3630	-10778	-10854	-10855	-10779	MG	0.00	0.00	500.00
3630	-10854	-10892	-10922	-10855	MG	0.00	0.00	500.00
3630	-10892	-10985	-10986	-10922	MG	0.00	0.00	500.00
3630	-10985	-11051	-11064	-10986	MG	0.00	0.00	500.00
3630	-10284	-10357	-10345	-10285	MG	0.00	0.00	500.00
3630	-10357	-10436	-10437	-10345	MG	0.00	0.00	500.00
3630	-10436	-10493	-10494	-10437	MG	0.00	0.00	500.00
3630	-10493	-10586	-10610	-10494	MG	0.00	0.00	500.00
3630	-10586	-10684	-10697	-10610	MG	0.00	0.00	500.00
3630	-10684	-10779	-10780	-10697	MG	0.00	0.00	500.00
3630	-10779	-10855	-10856	-10780	MG	0.00	0.00	500.00
3630	-10855	-10922	-10923	-10856	MG	0.00	0.00	500.00
3630	-10922	-10986	-10987	-10923	MG	0.00	0.00	500.00
3630	-10986	-11064	-11065	-10987	MG	0.00	0.00	500.00
3630	-10285	-10345	-10346	-10286	MG	0.00	0.00	500.00
3630	-10345	-10437	-10438	-10346	MG	0.00	0.00	500.00
3630	-10437	-10494	-10495	-10438	MG	0.00	0.00	500.00
3630	-12390	-12456	-12457	-12391	MG	0.00	0.00	500.00
3630	-10610	-10697	-10698	-10552	MG	0.00	0.00	500.00
3630	-10697	-10780	-10781	-10698	MG	0.00	0.00	500.00
3630	-10780	-10856	-10841	-10781	MG	0.00	0.00	500.00
3630	-10856	-10923	-10924	-10841	MG	0.00	0.00	500.00
3630	-10923	-10987	-10988	-10924	MG	0.00	0.00	500.00
3630	-10987	-11065	-11066	-10988	MG	0.00	0.00	500.00
3630	-10286	-10346	-10347	-10287	MG	0.00	0.00	500.00
3630	-10346	-10438	-10439	-10347	MG	0.00	0.00	500.00
3630	-10438	-10495	-10496	-10439	MG	0.00	0.00	500.00
3630	-10495	-10552	-10631	-10496	MG	0.00	0.00	500.00
3630	-10552	-10698	-10699	-10631	MG	0.00	0.00	500.00



3630	-10698	-10781	-10782	-10699	MG	0.00	0.00	500.00
3630	-10781	-10841	-10857	-10782	MG	0.00	0.00	500.00
3630	-10841	-10924	-10925	-10857	MG	0.00	0.00	500.00
3630	-10924	-10988	-10989	-10925	MG	0.00	0.00	500.00
3630	-10988	-11066	-11067	-10989	MG	0.00	0.00	500.00
3630	-10287	-10347	-10358	-10288	MG	0.00	0.00	500.00
3630	-10347	-10439	-10422	-10358	MG	0.00	0.00	500.00
3630	-10439	-10496	-10497	-10422	MG	0.00	0.00	500.00
3630	-10496	-10631	-10587	-10497	MG	0.00	0.00	500.00
3630	-10631	-10699	-10685	-10587	MG	0.00	0.00	500.00
3630	-10699	-10782	-10783	-10685	MG	0.00	0.00	500.00
3630	-10782	-10857	-10808	-10783	MG	0.00	0.00	500.00
3630	-10857	-10925	-10926	-10808	MG	0.00	0.00	500.00
3630	-10925	-10989	-10990	-10926	MG	0.00	0.00	500.00
3630	-10989	-11067	-11068	-10990	MG	0.00	0.00	500.00
3630	-10288	-10358	-10359	3501	MG	0.00	0.00	500.00
3630	-10358	-10422	-10440	-10359	MG	0.00	0.00	500.00
3630	-10422	-10497	-10498	-10440	MG	0.00	0.00	500.00
3630	-10497	-10587	-10588	-10498	MG	0.00	0.00	500.00
3630	-10587	-10685	-10700	-10588	MG	0.00	0.00	500.00
3630	-10685	-10783	-10784	-10700	MG	0.00	0.00	500.00
3630	-10783	-10808	-10842	-10784	MG	0.00	0.00	500.00
3630	-10808	-10926	-10927	-10842	MG	0.00	0.00	500.00
3630	-10926	-10990	-10991	-10927	MG	0.00	0.00	500.00
3630	-10990	-11068	-11069	-10991	MG	0.00	0.00	500.00
3630	-13246	-13315	-13316	-13247	MG	0.00	0.00	500.00
3630	-13315	-13382	-13383	-13316	MG	0.00	0.00	500.00
3630	-13382	-13454	-13455	-13383	MG	0.00	0.00	500.00
3630	-13454	-13524	-13525	-13455	MG	0.00	0.00	500.00
3630	-13524	-13590	-13591	-13525	MG	0.00	0.00	500.00
3630	-13590	-13656	-13657	-13591	MG	0.00	0.00	500.00
3630	-13656	-13722	-13723	-13657	MG	0.00	0.00	500.00
3630	-13722	-13788	-13789	-13723	MG	0.00	0.00	500.00
3630	-13788	-13854	-13855	-13789	MG	0.00	0.00	500.00
3630	-13854	-13922	-13923	-13855	MG	0.00	0.00	500.00
3630	-13247	-13316	-13317	-13248	MG	0.00	0.00	500.00
3630	-13316	-13383	-13384	-13317	MG	0.00	0.00	500.00
3630	-13383	-13455	-13456	-13384	MG	0.00	0.00	500.00
3630	-13455	-13525	-13526	-13456	MG	0.00	0.00	500.00
3630	-13525	-13591	-13592	-13526	MG	0.00	0.00	500.00
3630	-13591	-13657	-13658	-13592	MG	0.00	0.00	500.00
3630	-13657	-13723	-13724	-13658	MG	0.00	0.00	500.00
3630	-13723	-13789	-13790	-13724	MG	0.00	0.00	500.00
3630	-13789	-13855	-13856	-13790	MG	0.00	0.00	500.00
3630	-13855	-13923	-13924	-13856	MG	0.00	0.00	500.00
3630	-13248	-13317	-13318	-13249	MG	0.00	0.00	500.00
3630	-13317	-13384	-13385	-13318	MG	0.00	0.00	500.00
3630	-13384	-13456	-13457	-13385	MG	0.00	0.00	500.00
3630	-13456	-13526	-13527	-13457	MG	0.00	0.00	500.00
3630	-13526	-13592	-13593	-13527	MG	0.00	0.00	500.00
3630	-13592	-13658	-13659	-13593	MG	0.00	0.00	500.00
3630	-13658	-13724	-13725	-13659	MG	0.00	0.00	500.00
3630	-13724	-13790	-13791	-13725	MG	0.00	0.00	500.00
3630	-13790	-13856	-13857	-13791	MG	0.00	0.00	500.00
3630	-13856	-13924	-13925	-13857	MG	0.00	0.00	500.00
3630	-13249	-13318	-13319	-13250	MG	0.00	0.00	500.00
3630	-13318	-13385	-13386	-13319	MG	0.00	0.00	500.00
3630	-13385	-13457	-13458	-13386	MG	0.00	0.00	500.00
3630	-13457	-13527	-13528	-13458	MG	0.00	0.00	500.00
3630	-13527	-13593	-13594	-13528	MG	0.00	0.00	500.00
3630	-13593	-13659	-13660	-13594	MG	0.00	0.00	500.00
3630	-13659	-13725	-13726	-13660	MG	0.00	0.00	500.00
3630	-13725	-13791	-13792	-13726	MG	0.00	0.00	500.00
3630	-13791	-13857	-13858	-13792	MG	0.00	0.00	500.00
3630	-13857	-13925	-13926	-13858	MG	0.00	0.00	500.00
3630	-13250	-13319	-13320	-13251	MG	0.00	0.00	500.00
3630	-13319	-13386	-13387	-13320	MG	0.00	0.00	500.00
3630	-13386	-13458	-13459	-13387	MG	0.00	0.00	500.00
3630	-13458	-13528	-13529	-13459	MG	0.00	0.00	500.00
3630	-13528	-13594	-13595	-13529	MG	0.00	0.00	500.00
3630	-13594	-13660	-13661	-13595	MG	0.00	0.00	500.00
3630	-13660	-13726	-13727	-13661	MG	0.00	0.00	500.00
3630	-13726	-13792	-13793	-13727	MG	0.00	0.00	500.00
3630	-13792	-13858	-13859	-13793	MG	0.00	0.00	500.00
3630	-13858	-13926	-13927	-13859	MG	0.00	0.00	500.00
3630	-13251	-13320	-13321	-13252	MG	0.00	0.00	500.00
3630	-13320	-13387	-13388	-13321	MG	0.00	0.00	500.00
3630	-13387	-13459	-13460	-13388	MG	0.00	0.00	500.00
3630	-13459	-13529	-13530	-13460	MG	0.00	0.00	500.00

3630	-13529	-13595	-13596	-13530	MG	0.00	0.00	500.00
3630	-11481	-11551	-11552	-11482	MG	0.00	0.00	500.00
3630	-13661	-13727	-13728	-13662	MG	0.00	0.00	500.00
3630	-13727	-13793	-13794	-13728	MG	0.00	0.00	500.00
3630	-13793	-13859	-13860	-13794	MG	0.00	0.00	500.00
3630	-13859	-13927	-13928	-13860	MG	0.00	0.00	500.00
3630	-13252	-13321	-13322	-13253	MG	0.00	0.00	500.00
3630	-13321	-13388	-13389	-13322	MG	0.00	0.00	500.00
3630	-13388	-13460	-13461	-13389	MG	0.00	0.00	500.00
3630	-13460	-13530	-13531	-13461	MG	0.00	0.00	500.00
3630	-13530	-13596	-13597	-13531	MG	0.00	0.00	500.00
3630	-13596	-13662	-13663	-13597	MG	0.00	0.00	500.00
3630	-13662	-13728	-13729	-13663	MG	0.00	0.00	500.00
3630	-13728	-13794	-13795	-13729	MG	0.00	0.00	500.00
3630	-13794	-13860	-13861	-13795	MG	0.00	0.00	500.00
3630	-13860	-13928	-13929	-13861	MG	0.00	0.00	500.00
3630	-13253	-13322	-13323	-13254	MG	0.00	0.00	500.00
3630	-13322	-13389	-13390	-13323	MG	0.00	0.00	500.00
3630	-13389	-13461	-13462	-13390	MG	0.00	0.00	500.00
3630	-13461	-13531	-13532	-13462	MG	0.00	0.00	500.00
3630	-13531	-13597	-13598	-13532	MG	0.00	0.00	500.00
3630	-13597	-13663	-13664	-13598	MG	0.00	0.00	500.00
3630	-13663	-13729	-13730	-13664	MG	0.00	0.00	500.00
3630	-13729	-13795	-13796	-13730	MG	0.00	0.00	500.00
3630	-13795	-13861	-13862	-13796	MG	0.00	0.00	500.00
3630	-13861	-13929	-13930	-13862	MG	0.00	0.00	500.00
3630	-13254	-13323	-13324	-13255	MG	0.00	0.00	500.00
3630	-13323	-13390	-13391	-13324	MG	0.00	0.00	500.00
3630	-13390	-13462	-13463	-13391	MG	0.00	0.00	500.00
3630	-13462	-13532	-13533	-13463	MG	0.00	0.00	500.00
3630	-13532	-13598	-13599	-13533	MG	0.00	0.00	500.00
3630	-13598	-13664	-13665	-13599	MG	0.00	0.00	500.00
3630	-13664	-13730	-13731	-13665	MG	0.00	0.00	500.00
3630	-13730	-13796	-13797	-13731	MG	0.00	0.00	500.00
3630	-13796	-13862	-13863	-13797	MG	0.00	0.00	500.00
3630	-13862	-13930	-13931	-13863	MG	0.00	0.00	500.00
3630	-13255	-13324	-13325	-13256	MG	0.00	0.00	500.00
3630	-13324	-13391	-13392	-13325	MG	0.00	0.00	500.00
3630	-13391	-13463	-13464	-13392	MG	0.00	0.00	500.00
3630	-13463	-13533	-13534	-13464	MG	0.00	0.00	500.00
3630	-13533	-13599	-13600	-13534	MG	0.00	0.00	500.00
3630	-13599	-13665	-13666	-13600	MG	0.00	0.00	500.00
3630	-13665	-13731	-13732	-13666	MG	0.00	0.00	500.00
3630	-13731	-13797	-13798	-13732	MG	0.00	0.00	500.00
3630	-13797	-13863	-13864	-13798	MG	0.00	0.00	500.00
3630	-13863	-13931	-13932	-13864	MG	0.00	0.00	500.00
3630	-13256	-13325	-13326	-13257	MG	0.00	0.00	500.00
3630	-13325	-13392	-13393	-13326	MG	0.00	0.00	500.00
3630	-13392	-13464	-13465	-13393	MG	0.00	0.00	500.00
3630	-13464	-13534	-13535	-13465	MG	0.00	0.00	500.00
3630	-13534	-13600	-13601	-13535	MG	0.00	0.00	500.00
3630	-13600	-13666	-13667	-13601	MG	0.00	0.00	500.00
3630	-13666	-13732	-13733	-13667	MG	0.00	0.00	500.00
3630	-13732	-13798	-13799	-13733	MG	0.00	0.00	500.00
3630	-13798	-13864	-13865	-13799	MG	0.00	0.00	500.00
3630	-13864	-13932	-13933	-13865	MG	0.00	0.00	500.00
3630	-13257	-13326	-13327	-13258	MG	0.00	0.00	500.00
3630	-13326	-13393	-13394	-13327	MG	0.00	0.00	500.00
3630	-13393	-13465	-13466	-13394	MG	0.00	0.00	500.00
3630	-13465	-13535	-13536	-13466	MG	0.00	0.00	500.00
3630	-13535	-13601	-13602	-13536	MG	0.00	0.00	500.00
3630	-13601	-13667	-13668	-13602	MG	0.00	0.00	500.00
3630	-13667	-13733	-13734	-13668	MG	0.00	0.00	500.00
3630	-13733	-13799	-13800	-13734	MG	0.00	0.00	500.00
3630	-13799	-13865	-13866	-13800	MG	0.00	0.00	500.00
3630	-13865	-13933	-13934	-13866	MG	0.00	0.00	500.00
3630	-12508	-12592	-12593	-12509	MG	0.00	0.00	500.00
3630	-12592	-12666	-12667	-12593	MG	0.00	0.00	500.00
3630	-12666	-12737	-12738	-12667	MG	0.00	0.00	500.00
3630	-12737	-12807	-12808	-12738	MG	0.00	0.00	500.00
3630	-12807	-12877	-12878	-12808	MG	0.00	0.00	500.00
3630	-12877	-12954	-12955	-12878	MG	0.00	0.00	500.00
3630	-12954	-13038	-13039	-12955	MG	0.00	0.00	500.00
3630	-13038	-13105	-13106	-13039	MG	0.00	0.00	500.00
3630	-13105	-13183	-13184	-13106	MG	0.00	0.00	500.00
3630	-13183	-13246	-13247	-13184	MG	0.00	0.00	500.00
3630	-12509	-12593	-12594	-12510	MG	0.00	0.00	500.00
3630	-12593	-12667	-12668	-12594	MG	0.00	0.00	500.00
3630	-12667	-12738	-12739	-12668	MG	0.00	0.00	500.00

3630	-12738	-12808	-12809	-12739	MG	0.00	0.00	500.00
3630	-12808	-12878	-12879	-12809	MG	0.00	0.00	500.00
3630	-12878	-12955	-12956	-12879	MG	0.00	0.00	500.00
3630	-12955	-13039	-13040	-12956	MG	0.00	0.00	500.00
3630	-13039	-13106	-13107	-13040	MG	0.00	0.00	500.00
3630	-13106	-13184	-13185	-13107	MG	0.00	0.00	500.00
3630	-13184	-13247	-13248	-13185	MG	0.00	0.00	500.00
3630	-12510	-12594	-12595	-12511	MG	0.00	0.00	500.00
3630	-12594	-12668	-12669	-12595	MG	0.00	0.00	500.00
3630	-12668	-12739	-12740	-12669	MG	0.00	0.00	500.00
3630	-12739	-12809	-12810	-12740	MG	0.00	0.00	500.00
3630	-12809	-12879	-12880	-12810	MG	0.00	0.00	500.00
3630	-12879	-12956	-12957	-12880	MG	0.00	0.00	500.00
3630	-12956	-13040	-13041	-12957	MG	0.00	0.00	500.00
3630	-13040	-13107	-13108	-13041	MG	0.00	0.00	500.00
3630	-13107	-13185	-13167	-13108	MG	0.00	0.00	500.00
3630	-13185	-13248	-13249	-13167	MG	0.00	0.00	500.00
3630	-12511	-12595	-12596	-12512	MG	0.00	0.00	500.00
3630	-12595	-12669	-12670	-12596	MG	0.00	0.00	500.00
3630	-12669	-12740	-12741	-12670	MG	0.00	0.00	500.00
3630	-12740	-12810	-12811	-12741	MG	0.00	0.00	500.00
3630	-12810	-12880	-12881	-12811	MG	0.00	0.00	500.00
3630	-12880	-12957	-12958	-12881	MG	0.00	0.00	500.00
3630	-12957	-13041	-13042	-12968	MG	0.00	0.00	500.00
3630	-13041	-13108	-13084	-13042	MG	0.00	0.00	500.00
3630	-13108	-13167	-13186	-13084	MG	0.00	0.00	500.00
3630	-13167	-13249	-13250	-13186	MG	0.00	0.00	500.00
3630	-12512	-12596	-12597	-12513	MG	0.00	0.00	500.00
3630	-12596	-12670	-12671	-12597	MG	0.00	0.00	500.00
3630	-12670	-12741	-12742	-12671	MG	0.00	0.00	500.00
3630	-12741	-12811	-12812	-12742	MG	0.00	0.00	500.00
3630	-12811	-12881	-12882	-12812	MG	0.00	0.00	500.00
3630	-12881	-12968	-12969	-12882	MG	0.00	0.00	500.00
3630	-12968	-13042	-13043	-12969	MG	0.00	0.00	500.00
3630	-13042	-13084	-13109	-13043	MG	0.00	0.00	500.00
3630	-13084	-13186	-13168	-13109	MG	0.00	0.00	500.00
3630	-13186	-13250	-13251	-13168	MG	0.00	0.00	500.00
3630	-12513	-12597	-12598	-12525	MG	0.00	0.00	500.00
3630	-12597	-12671	-12672	-12598	MG	0.00	0.00	500.00
3630	-12671	-12742	-12743	-12672	MG	0.00	0.00	500.00
3630	-12742	-12812	-12813	-12743	MG	0.00	0.00	500.00
3630	-12812	-12882	-12883	-12813	MG	0.00	0.00	500.00
3630	-12882	-12969	-12958	-12883	MG	0.00	0.00	500.00
3630	-12969	-13043	-13044	-12958	MG	0.00	0.00	500.00
3630	-13043	-13109	-13110	-13044	MG	0.00	0.00	500.00
3630	-13109	-13168	-13187	-13110	MG	0.00	0.00	500.00
3630	-13168	-13251	-13252	-13187	MG	0.00	0.00	500.00
3630	-12903	-12983	-12984	-12904	MG	0.00	0.00	500.00
3630	-12598	-12672	-12673	-12599	MG	0.00	0.00	500.00
3630	-12672	-12743	-12744	-12673	MG	0.00	0.00	500.00
3630	-12743	-12813	-12814	-12744	MG	0.00	0.00	500.00
3630	-12813	-12883	-12884	-12814	MG	0.00	0.00	500.00
3630	-12883	-12958	-12959	-12884	MG	0.00	0.00	500.00
3630	-12958	-13044	-13045	-12959	MG	0.00	0.00	500.00
3630	-13044	-13110	-13111	-13045	MG	0.00	0.00	500.00
3630	-13110	-13187	-13188	-13111	MG	0.00	0.00	500.00
3630	-13187	-13252	-13253	-13188	MG	0.00	0.00	500.00
3630	-12514	-12599	-12600	-12515	MG	0.00	0.00	500.00
3630	-12599	-12673	-12674	-12600	MG	0.00	0.00	500.00
3630	-12673	-12744	-12745	-12674	MG	0.00	0.00	500.00
3630	-12744	-12814	-12815	-12745	MG	0.00	0.00	500.00
3630	-12814	-12884	-12885	-12815	MG	0.00	0.00	500.00
3630	-12884	-12959	-12960	-12885	MG	0.00	0.00	500.00
3630	-12959	-13045	-13046	-12960	MG	0.00	0.00	500.00
3630	-13045	-13111	-13112	-13046	MG	0.00	0.00	500.00
3630	-13111	-13188	-13189	-13112	MG	0.00	0.00	500.00
3630	-13188	-13253	-13254	-13189	MG	0.00	0.00	500.00
3630	-12515	-12600	-12601	-12516	MG	0.00	0.00	500.00
3630	-12600	-12674	-12675	-12601	MG	0.00	0.00	500.00
3630	-12674	-12745	-12746	-12675	MG	0.00	0.00	500.00
3630	-12745	-12815	-12816	-12746	MG	0.00	0.00	500.00
3630	-12815	-12885	-12886	-12816	MG	0.00	0.00	500.00
3630	-12885	-12960	-12970	-12886	MG	0.00	0.00	500.00
3630	-12960	-13046	-13047	-12970	MG	0.00	0.00	500.00
3630	-13046	-13112	-13113	-13047	MG	0.00	0.00	500.00
3630	-13112	-13189	-13190	-13113	MG	0.00	0.00	500.00
3630	-13189	-13254	-13255	-13190	MG	0.00	0.00	500.00
3630	-12516	-12601	-12602	-12526	MG	0.00	0.00	500.00
3630	-12601	-12675	-12676	-12602	MG	0.00	0.00	500.00

3630	-12675	-12746	-12747	-12676	MG	0.00	0.00	500.00
3630	-12746	-12816	-12817	-12747	MG	0.00	0.00	500.00
3630	-12816	-12886	-12887	-12817	MG	0.00	0.00	500.00
3630	-12886	-12970	-12961	-12887	MG	0.00	0.00	500.00
3630	-12970	-13047	-13048	-12961	MG	0.00	0.00	500.00
3630	-13047	-13113	-13114	-13048	MG	0.00	0.00	500.00
3630	-13113	-13190	-13169	-13114	MG	0.00	0.00	500.00
3630	-13190	-13255	-13256	-13169	MG	0.00	0.00	500.00
3630	-12526	-12602	-12603	-12527	MG	0.00	0.00	500.00
3630	-12602	-12676	-12677	-12603	MG	0.00	0.00	500.00
3630	-12676	-12747	-12748	-12677	MG	0.00	0.00	500.00
3630	-12747	-12817	-12818	-12748	MG	0.00	0.00	500.00
3630	-12817	-12887	-12888	-12818	MG	0.00	0.00	500.00
3630	-12887	-12961	-12971	-12888	MG	0.00	0.00	500.00
3630	-12961	-13048	-13049	-12971	MG	0.00	0.00	500.00
3630	-13048	-13114	-13115	-13049	MG	0.00	0.00	500.00
3630	-13114	-13169	-13191	-13115	MG	0.00	0.00	500.00
3630	-13169	-13256	-13257	-13191	MG	0.00	0.00	500.00
3630	-12527	-12603	-12604	-12547	MG	0.00	0.00	500.00
3630	-12603	-12677	-12678	-12604	MG	0.00	0.00	500.00
3630	-12677	-12748	-12749	-12678	MG	0.00	0.00	500.00
3630	-12748	-12818	-12819	-12749	MG	0.00	0.00	500.00
3630	-12818	-12888	-12889	-12819	MG	0.00	0.00	500.00
3630	-12888	-12971	-12972	-12889	MG	0.00	0.00	500.00
3630	-12971	-13049	-13050	-12972	MG	0.00	0.00	500.00
3630	-13049	-13115	-13127	-13050	MG	0.00	0.00	500.00
3630	-13115	-13191	-13192	-13127	MG	0.00	0.00	500.00
3630	-13191	-13257	-13258	-13192	MG	0.00	0.00	500.00
3630	-11060	-11122	-11123	-11061	MG	0.00	0.00	500.00
3630	-11122	-11188	-11189	-11123	MG	0.00	0.00	500.00
3630	-11188	-11254	-11255	-11189	MG	0.00	0.00	500.00
3630	-11254	-11326	-11327	-11255	MG	0.00	0.00	500.00
3630	-11326	-11392	-11393	-11327	MG	0.00	0.00	500.00
3630	-11392	-11462	-11463	-11393	MG	0.00	0.00	500.00
3630	-11462	-11532	-11533	-11463	MG	0.00	0.00	500.00
3630	-11532	-11602	-11603	-11533	MG	0.00	0.00	500.00
3630	-11602	-11676	-11677	-11603	MG	0.00	0.00	500.00
3630	-11676	-11740	-11741	-11677	MG	0.00	0.00	500.00
3630	-11061	-11123	-11124	-11062	MG	0.00	0.00	500.00
3630	-11123	-11189	-11190	-11124	MG	0.00	0.00	500.00
3630	-11189	-11255	-11256	-11190	MG	0.00	0.00	500.00
3630	-11255	-11327	-11328	-11256	MG	0.00	0.00	500.00
3630	-11327	-11393	-11394	-11328	MG	0.00	0.00	500.00
3630	-11393	-11463	-11464	-11394	MG	0.00	0.00	500.00
3630	-11463	-11533	-11534	-11464	MG	0.00	0.00	500.00
3630	-11533	-11603	-11604	-11534	MG	0.00	0.00	500.00
3630	-11603	-11677	-11663	-11604	MG	0.00	0.00	500.00
3630	-11677	-11741	-11742	-11663	MG	0.00	0.00	500.00
3630	-11062	-11124	-11125	-11038	MG	0.00	0.00	500.00
3630	-11124	-11190	-11191	-11125	MG	0.00	0.00	500.00
3630	-11190	-11256	-11257	-11191	MG	0.00	0.00	500.00
3630	-11256	-11328	-11329	-11257	MG	0.00	0.00	500.00
3630	-11328	-11394	-11395	-11329	MG	0.00	0.00	500.00
3630	-11394	-11464	-11465	-11395	MG	0.00	0.00	500.00
3630	-11464	-11534	-11535	-11465	MG	0.00	0.00	500.00
3630	-11534	-11604	-11605	-11535	MG	0.00	0.00	500.00
3630	-11604	-11663	-11664	-11605	MG	0.00	0.00	500.00
3630	-11663	-11742	-11743	-11664	MG	0.00	0.00	500.00
3630	-11038	-11125	-11126	-11063	MG	0.00	0.00	500.00
3630	-11125	-11191	-11192	-11126	MG	0.00	0.00	500.00
3630	-11191	-11257	-11258	-11192	MG	0.00	0.00	500.00
3630	-11257	-11329	-11330	-11258	MG	0.00	0.00	500.00
3630	-11329	-11395	-11396	-11330	MG	0.00	0.00	500.00
3630	-11395	-11465	-11466	-11396	MG	0.00	0.00	500.00
3630	-11465	-11535	-11536	-11466	MG	0.00	0.00	500.00
3630	-11535	-11605	-11606	-11536	MG	0.00	0.00	500.00
3630	-11605	-11664	-11678	-11606	MG	0.00	0.00	500.00
3630	-11664	-11743	-11744	-11678	MG	0.00	0.00	500.00
3630	-11063	-11126	-11127	-11050	MG	0.00	0.00	500.00
3630	-11126	-11192	-11193	-11127	MG	0.00	0.00	500.00
3630	-11192	-11258	-11259	-11193	MG	0.00	0.00	500.00
3630	-11258	-11330	-11331	-11259	MG	0.00	0.00	500.00
3630	-11330	-11396	-11397	-11331	MG	0.00	0.00	500.00
3630	-11396	-11466	-11467	-11397	MG	0.00	0.00	500.00
3630	-11466	-11536	-11537	-11467	MG	0.00	0.00	500.00
3630	-11536	-11606	-11607	-11537	MG	0.00	0.00	500.00
3630	-11606	-11678	-11665	-11607	MG	0.00	0.00	500.00
3630	-11678	-11744	-11745	-11665	MG	0.00	0.00	500.00
3630	-11050	-11127	-11128	-11051	MG	0.00	0.00	500.00

3630	-11127	-11193	-11194	-11128	MG	0.00	0.00	500.00
3630	-11193	-11259	-11260	-11194	MG	0.00	0.00	500.00
3630	-11259	-11331	-11332	-11260	MG	0.00	0.00	500.00
3630	-11331	-11397	-11398	-11332	MG	0.00	0.00	500.00
3630	-11397	-11467	-11468	-11398	MG	0.00	0.00	500.00
3630	-11467	-11537	-11538	-11468	MG	0.00	0.00	500.00
3630	-11537	-11607	-11608	-11538	MG	0.00	0.00	500.00
3630	-11607	-11665	-11666	-11608	MG	0.00	0.00	500.00
3630	-11665	-11745	-11746	-11666	MG	0.00	0.00	500.00
3630	-11051	-11128	-11129	-11064	MG	0.00	0.00	500.00
3630	-11128	-11194	-11195	-11129	MG	0.00	0.00	500.00
3630	-11194	-11260	-11261	-11195	MG	0.00	0.00	500.00
3630	-11260	-11332	-11333	-11261	MG	0.00	0.00	500.00
3630	-11332	-11398	-11399	-11333	MG	0.00	0.00	500.00
3630	-11398	-11468	-11469	-11399	MG	0.00	0.00	500.00
3630	-11468	-11538	-11539	-11469	MG	0.00	0.00	500.00
3630	-11538	-11608	-11609	-11539	MG	0.00	0.00	500.00
3630	-11608	-11666	-11679	-11609	MG	0.00	0.00	500.00
3630	-11666	-11746	-11747	-11679	MG	0.00	0.00	500.00
3630	-11064	-11129	-11130	-11065	MG	0.00	0.00	500.00
3630	-11129	-11195	-11196	-11130	MG	0.00	0.00	500.00
3630	-11195	-11261	-11262	-11196	MG	0.00	0.00	500.00
3630	-11261	-11333	-11334	-11262	MG	0.00	0.00	500.00
3630	-11333	-11399	-11400	-11334	MG	0.00	0.00	500.00
3630	-11399	-11469	-11470	-11400	MG	0.00	0.00	500.00
3630	-11469	-11539	-11540	-11470	MG	0.00	0.00	500.00
3630	-11539	-11609	-11610	-11540	MG	0.00	0.00	500.00
3630	-11609	-11679	-11679	-11610	MG	0.00	0.00	500.00
3630	-11679	-11747	-11748	-11679	MG	0.00	0.00	500.00
3630	-11065	-11130	-11131	-11066	MG	0.00	0.00	500.00
3630	-11130	-11196	-11197	-11131	MG	0.00	0.00	500.00
3630	-11196	-11262	-11263	-11197	MG	0.00	0.00	500.00
3630	-11262	-11334	-11335	-11263	MG	0.00	0.00	500.00
3630	-11334	-11400	-11401	-11335	MG	0.00	0.00	500.00
3630	-11400	-11470	-11471	-11401	MG	0.00	0.00	500.00
3630	-11470	-11540	-11541	-11471	MG	0.00	0.00	500.00
3630	-11540	-11610	-11611	-11541	MG	0.00	0.00	500.00
3630	-11610	-11667	-11680	-11611	MG	0.00	0.00	500.00
3630	-11667	-11748	-11749	-11680	MG	0.00	0.00	500.00
3630	-11066	-11131	-11132	-11067	MG	0.00	0.00	500.00
3630	-11131	-11197	-11198	-11132	MG	0.00	0.00	500.00
3630	-11197	-11263	-11264	-11198	MG	0.00	0.00	500.00
3630	-11263	-11335	-11336	-11264	MG	0.00	0.00	500.00
3630	-11335	-11401	-11402	-11336	MG	0.00	0.00	500.00
3630	-11401	-11471	-11472	-11402	MG	0.00	0.00	500.00
3630	-11471	-11541	-11542	-11472	MG	0.00	0.00	500.00
3630	-11541	-11611	-11612	-11542	MG	0.00	0.00	500.00
3630	-11611	-11680	-11681	-11612	MG	0.00	0.00	500.00
3630	-11680	-11749	-11750	-11681	MG	0.00	0.00	500.00
3630	-11067	-11132	-11133	-11068	MG	0.00	0.00	500.00
3630	-11132	-11198	-11199	-11133	MG	0.00	0.00	500.00
3630	-11198	-11264	-11265	-11199	MG	0.00	0.00	500.00
3630	-11264	-11336	-11337	-11265	MG	0.00	0.00	500.00
3630	-11336	-11402	-11403	-11337	MG	0.00	0.00	500.00
3630	-11402	-11472	-11473	-11403	MG	0.00	0.00	500.00
3630	-11472	-11542	-11543	-11473	MG	0.00	0.00	500.00
3630	-11542	-11612	-11613	-11543	MG	0.00	0.00	500.00
3630	-11612	-11681	-11685	-11613	MG	0.00	0.00	500.00
3630	-11681	-11750	-11751	-11685	MG	0.00	0.00	500.00
3630	-11068	-11133	-11134	-11069	MG	0.00	0.00	500.00
3630	-11493	-11563	-11564	-11494	MG	0.00	0.00	500.00
3630	-11199	-11265	-11266	-11200	MG	0.00	0.00	500.00
3630	-11265	-11337	-11338	-11266	MG	0.00	0.00	500.00
3630	-11337	-11403	-11404	-11338	MG	0.00	0.00	500.00
3630	-11345	-11411	-11412	-11346	MG	0.00	0.00	500.00
3630	-11411	-11481	-11482	-11412	MG	0.00	0.00	500.00
3630	-12450	-12535	-12549	-12451	MG	0.00	0.00	500.00
3630	-11551	-11621	-11622	-11552	MG	0.00	0.00	500.00
3630	-11621	-11693	-11694	-11622	MG	0.00	0.00	500.00
3630	-10376	-10426	-10427	-10366	MG	0.00	0.00	500.00
3630	-10426	-10506	-10507	-10427	MG	0.00	0.00	500.00
3630	-14006	-14005	-14063	-14077	MG	0.00	0.00	500.00
3630	-14005	-14004	-14076	-14063	MG	0.00	0.00	500.00
3630	-14077	-14063	-14140	-14141	MG	0.00	0.00	500.00
3630	-14063	-14076	-14139	-14140	MG	0.00	0.00	500.00
3630	-14141	-14140	-14206	-14207	MG	0.00	0.00	500.00
3630	-14140	-14139	-14205	-14206	MG	0.00	0.00	500.00
3630	-14207	-14206	-14272	-14273	MG	0.00	0.00	500.00
3630	-10296	-10366	-10367	-10297	MG	0.00	0.00	500.00

3630	-14273	-14272	-14338	-14339	MG	0.00	0.00	500.00
3630	-10427	-10507	-10508	-10428	MG	0.00	0.00	500.00
3630	-14339	-14338	-14404	-14405	MG	0.00	0.00	500.00
3630	-14338	-14337	-14403	-14404	MG	0.00	0.00	500.00
3630	-14405	-14404	-14470	-14471	MG	0.00	0.00	500.00
3630	-10793	-10863	-10864	-10794	MG	0.00	0.00	500.00
3630	-10863	-10894	-10914	-10864	MG	0.00	0.00	500.00
3630	-10894	-11000	-11001	-10914	MG	0.00	0.00	500.00
3630	-11000	-11078	-11079	-11001	MG	0.00	0.00	500.00
3630	-10297	-10367	-10368	-10298	MG	0.00	0.00	500.00
3630	-15271	-15270	-15336	-15337	MG	0.00	0.00	500.00
3630	-15337	-15336	-15402	-15403	MG	0.00	0.00	500.00
3630	-15403	-15402	-15468	-15469	MG	0.00	0.00	500.00
3630	-10569	-10709	-10710	-10593	MG	0.00	0.00	500.00
3630	-10709	-10794	-10795	-10710	MG	0.00	0.00	500.00
3630	-10794	-10864	-10865	-10795	MG	0.00	0.00	500.00
3630	-10864	-10914	-10935	-10865	MG	0.00	0.00	500.00
3630	-10914	-11001	-11002	-10935	MG	0.00	0.00	500.00
3630	-11001	-11079	-11080	-11002	MG	0.00	0.00	500.00
3630	-10298	-10368	-10369	-10299	MG	0.00	0.00	500.00
3630	-10368	-10429	-10445	-10369	MG	0.00	0.00	500.00
3630	-10429	-10509	-10510	-10445	MG	0.00	0.00	500.00
3630	-10509	-10593	-10619	-10510	MG	0.00	0.00	500.00
3630	-11552	-11622	-11623	-11553	MG	0.00	0.00	500.00
3630	-12248	-12320	-12321	-12249	MG	0.00	0.00	500.00
3630	-11694	-11760	-11761	-11695	MG	0.00	0.00	500.00
3630	-10865	-10935	-10936	-10866	MG	0.00	0.00	500.00
3630	-10935	-11002	-11003	-10936	MG	0.00	0.00	500.00
3630	-11002	-11080	-11081	-11003	MG	0.00	0.00	500.00
3630	-13412	-13484	-13485	-13413	MG	0.00	0.00	500.00
3630	-13484	-13554	-13555	-13485	MG	0.00	0.00	500.00
3630	-12000	-12070	-12023	-11973	MG	0.00	0.00	500.00
3630	-12070	-12165	-12121	-12023	MG	0.00	0.00	500.00
3630	-13686	-13752	-13753	-13687	MG	0.00	0.00	500.00
3630	-10711	-10796	-10797	-10712	MG	0.00	0.00	500.00
3630	-10796	-10866	-10867	-10797	MG	0.00	0.00	500.00
3630	-11079	-11144	-11145	-11080	MG	0.00	0.00	500.00
3630	-13277	-13346	-13347	-13278	MG	0.00	0.00	500.00
3630	-11768	-11834	-11835	-11769	MG	0.00	0.00	500.00
3630	-11834	-11902	-11903	-11835	MG	0.00	0.00	500.00
3630	-10377	-10446	-10447	-10370	MG	0.00	0.00	500.00
3630	-11973	-12023	-12055	-12001	MG	0.00	0.00	500.00
3630	-13621	-13687	-13688	-13622	MG	0.00	0.00	500.00
3630	-10524	-10712	-10713	-10594	MG	0.00	0.00	500.00
3630	-10712	-10797	-10798	-10713	MG	0.00	0.00	500.00
3630	-12322	-12390	-12391	-12323	MG	0.00	0.00	500.00
3630	-13885	-13953	-13954	-13886	MG	0.00	0.00	500.00
3630	-12534	-12612	-12613	-12548	MG	0.00	0.00	500.00
3630	-12612	-12686	-12687	-12613	MG	0.00	0.00	500.00
3630	-10301	-10370	-10371	-10302	MG	0.00	0.00	500.00
3630	-10370	-10447	-10430	-10371	MG	0.00	0.00	500.00
3630	-10447	-10512	-10513	-10430	MG	0.00	0.00	500.00
3630	-10512	-10594	-10595	-10513	MG	0.00	0.00	500.00
3630	-10594	-10713	-10714	-10595	MG	0.00	0.00	500.00
3630	-13058	-13120	-13130	-13059	MG	0.00	0.00	500.00
3630	-13120	-13200	-13201	-13130	MG	0.00	0.00	500.00
3630	-13200	-13266	-13267	-13201	MG	0.00	0.00	500.00
3630	-10938	-11005	-11006	-10939	MG	0.00	0.00	500.00
3630	-11005	-11083	-11084	-11006	MG	0.00	0.00	500.00
3630	-10302	-10371	-10378	-10303	MG	0.00	0.00	500.00
3630	-10371	-10430	-10431	-10378	MG	0.00	0.00	500.00
3630	-10430	-10513	-10514	-10431	MG	0.00	0.00	500.00
3630	-10513	-10595	-10596	-10514	MG	0.00	0.00	500.00
3630	-10595	-10714	-10715	-10596	MG	0.00	0.00	500.00
3630	-10714	-10799	-10800	-10715	MG	0.00	0.00	500.00
3630	-10799	-10868	-10869	-10800	MG	0.00	0.00	500.00
3630	-10868	-10939	-10940	-10869	MG	0.00	0.00	500.00
3630	-12535	-12614	-12615	-12549	MG	0.00	0.00	500.00
3630	-12614	-12688	-12689	-12615	MG	0.00	0.00	500.00
3630	-10303	-10378	-10379	-10304	MG	0.00	0.00	500.00
3630	-10378	-10431	-10448	-10379	MG	0.00	0.00	500.00
3630	-10431	-10514	-10515	-10448	MG	0.00	0.00	500.00
3630	-10514	-10596	-10626	-10515	MG	0.00	0.00	500.00
3630	-12979	-13060	-13061	-12980	MG	0.00	0.00	500.00
3630	-10715	-10800	-10801	-10716	MG	0.00	0.00	500.00
3630	-10800	-10869	-10870	-10801	MG	0.00	0.00	500.00
3630	-10869	-10940	-10941	-10870	MG	0.00	0.00	500.00
3630	-10940	-11007	-11008	-10941	MG	0.00	0.00	500.00
3630	-11007	-11039	-11085	-11008	MG	0.00	0.00	500.00

3630	-10304	-10379	-10372	-10305	MG	0.00	0.00	500.00
3630	-12760	-12830	-12831	-12761	MG	0.00	0.00	500.00
3630	-12830	-12900	-12901	-12831	MG	0.00	0.00	500.00
3630	-12900	-12980	-12981	-12901	MG	0.00	0.00	500.00
3630	-12980	-13061	-13062	-12981	MG	0.00	0.00	500.00
3630	-10716	-10801	-10802	-10686	MG	0.00	0.00	500.00
3630	-10801	-10870	-10871	-10802	MG	0.00	0.00	500.00
3630	-10870	-10941	-10942	-10871	MG	0.00	0.00	500.00
3630	-10941	-11008	-11009	-10942	MG	0.00	0.00	500.00
3630	-12616	-12690	-12691	-12617	MG	0.00	0.00	500.00
3630	-10305	-10372	-10380	-10306	MG	0.00	0.00	500.00
3630	-10372	-10449	-10450	-10380	MG	0.00	0.00	500.00
3630	-12831	-12901	-12902	-12832	MG	0.00	0.00	500.00
3630	-12901	-12981	-12982	-12902	MG	0.00	0.00	500.00
3630	-10597	-10686	-10717	-10598	MG	0.00	0.00	500.00
3630	-10686	-10802	-10803	-10717	MG	0.00	0.00	500.00
3630	-10802	-10871	-10872	-10803	MG	0.00	0.00	500.00
3630	-10871	-10942	-10943	-10872	MG	0.00	0.00	500.00
3630	-10942	-11009	-11010	-10943	MG	0.00	0.00	500.00
3630	-11009	-11086	-11087	-11010	MG	0.00	0.00	500.00
3630	-12691	-12762	-12763	-12692	MG	0.00	0.00	500.00
3630	-12762	-12832	-12833	-12763	MG	0.00	0.00	500.00
3630	-10450	-10517	-10518	-10451	MG	0.00	0.00	500.00
3630	-10517	-10598	-10627	-10518	MG	0.00	0.00	500.00
3630	-10598	-10717	-10718	-10627	MG	0.00	0.00	500.00
3630	-10717	-10803	-10804	-10718	MG	0.00	0.00	500.00
3630	-10803	-10872	-10873	-10804	MG	0.00	0.00	500.00
3630	-10872	-10943	-10944	-10873	MG	0.00	0.00	500.00
3630	-10943	-11010	-11011	-10944	MG	0.00	0.00	500.00
3630	-11010	-11087	-11088	-11011	MG	0.00	0.00	500.00
3630	-11760	-11826	-11827	-11761	MG	0.00	0.00	500.00
3630	-11826	-11898	-11899	-11827	MG	0.00	0.00	500.00
3630	-12833	-12903	-12904	-12834	MG	0.00	0.00	500.00
3630	-11940	-12053	-12068	-12011	MG	0.00	0.00	500.00
3630	-12053	-12163	-12146	-12068	MG	0.00	0.00	500.00
3630	-12163	-12242	-12243	-12146	MG	0.00	0.00	500.00
3630	-12242	-12314	-12315	-12243	MG	0.00	0.00	500.00
3630	-12314	-12382	-12383	-12315	MG	0.00	0.00	500.00
3630	-12382	-12448	-12449	-12383	MG	0.00	0.00	500.00
3630	-12448	-12534	-12548	-12449	MG	0.00	0.00	500.00
3630	-11761	-11827	-11828	-11762	MG	0.00	0.00	500.00
3630	-11827	-11889	-11890	-11828	MG	0.00	0.00	500.00
3630	-12834	-12904	-12905	-12835	MG	0.00	0.00	500.00
3630	-12011	-12068	-12022	-11983	MG	0.00	0.00	500.00
3630	-12068	-12146	-12164	-12022	MG	0.00	0.00	500.00
3630	-13065	-13135	-13136	-13066	MG	0.00	0.00	500.00
3630	-13135	-13207	-13208	-13136	MG	0.00	0.00	500.00
3630	-13207	-13273	-13274	-13208	MG	0.00	0.00	500.00
3630	-12550	-12620	-12621	-12540	MG	0.00	0.00	500.00
3630	-12449	-12548	-12535	-12450	MG	0.00	0.00	500.00
3630	-11762	-11828	-11829	-11763	MG	0.00	0.00	500.00
3630	-12765	-12835	-12836	-12766	MG	0.00	0.00	500.00
3630	-11890	-11983	-12012	-11899	MG	0.00	0.00	500.00
3630	-12905	-12985	-12986	-12906	MG	0.00	0.00	500.00
3630	-12022	-12164	-12171	-12101	MG	0.00	0.00	500.00
3630	-12164	-12244	-12245	-12171	MG	0.00	0.00	500.00
3630	-13136	-13208	-13209	-13137	MG	0.00	0.00	500.00
3630	-13208	-13274	-13275	-13209	MG	0.00	0.00	500.00
3630	-12384	-12450	-12451	-12385	MG	0.00	0.00	500.00
3630	-12621	-12695	-12696	-12622	MG	0.00	0.00	500.00
3630	-11763	-11829	-11830	-11764	MG	0.00	0.00	500.00
3630	-11829	-11899	-11891	-11830	MG	0.00	0.00	500.00
3630	-12836	-12906	-12907	-12837	MG	0.00	0.00	500.00
3630	-12906	-12986	-12987	-12907	MG	0.00	0.00	500.00
3630	-12986	-13067	-13068	-12987	MG	0.00	0.00	500.00
3630	-13067	-13137	-13138	-13068	MG	0.00	0.00	500.00
3630	-12245	-12317	-12318	-12246	MG	0.00	0.00	500.00
3630	-12317	-12385	-12386	-12318	MG	0.00	0.00	500.00
3630	-12385	-12451	-12452	-12386	MG	0.00	0.00	500.00
3630	-12451	-12549	-12536	-12452	MG	0.00	0.00	500.00
3630	-11764	-11830	-11831	-11765	MG	0.00	0.00	500.00
3630	-11830	-11891	-11892	-11831	MG	0.00	0.00	500.00
3630	-11891	-12013	-11998	-11892	MG	0.00	0.00	500.00
3630	-12013	-12054	-12069	-11998	MG	0.00	0.00	500.00
3630	-12054	-12115	-12187	-12069	MG	0.00	0.00	500.00
3630	-12115	-12246	-12247	-12187	MG	0.00	0.00	500.00
3630	-13138	-13210	-13211	-13139	MG	0.00	0.00	500.00
3630	-12318	-12386	-12387	-12319	MG	0.00	0.00	500.00
3630	-12542	-12623	-12624	-12543	MG	0.00	0.00	500.00

3630	-12452	-12536	-12537	-12453	MG	0.00	0.00	500.00
3630	-11765	-11831	-11832	-11766	MG	0.00	0.00	500.00
3630	-11831	-11892	-11900	-11832	MG	0.00	0.00	500.00
3630	-12838	-12908	-12909	-12839	MG	0.00	0.00	500.00
3630	-11998	-12069	-12102	-11999	MG	0.00	0.00	500.00
3630	-12069	-12187	-12120	-12102	MG	0.00	0.00	500.00
3630	-12187	-12247	-12248	-12120	MG	0.00	0.00	500.00
3630	-12247	-12319	-12320	-12248	MG	0.00	0.00	500.00
3630	-12319	-12387	-12388	-12320	MG	0.00	0.00	500.00
3630	-12387	-12453	-12454	-12388	MG	0.00	0.00	500.00
3630	-11142	-11208	-11209	-11143	MG	0.00	0.00	500.00
3630	-11208	-11274	-11275	-11209	MG	0.00	0.00	500.00
3630	-11274	-11346	-11347	-11275	MG	0.00	0.00	500.00
3630	-11346	-11412	-11413	-11347	MG	0.00	0.00	500.00
3630	-11999	-12102	-12070	-12000	MG	0.00	0.00	500.00
3630	-11482	-11552	-11553	-11483	MG	0.00	0.00	500.00
3630	-13268	-13337	-13338	-13269	MG	0.00	0.00	500.00
3630	-11622	-11694	-11695	-11623	MG	0.00	0.00	500.00
3630	-13404	-13476	-13477	-13405	MG	0.00	0.00	500.00
3630	-12388	-12454	-12455	-12389	MG	0.00	0.00	500.00
3630	-12454	-12538	-12539	-12455	MG	0.00	0.00	500.00
3630	-11209	-11275	-11276	-11210	MG	0.00	0.00	500.00
3630	-11275	-11347	-11348	-11276	MG	0.00	0.00	500.00
3630	-11901	-12000	-11973	-11902	MG	0.00	0.00	500.00
3630	-11413	-11483	-11484	-11414	MG	0.00	0.00	500.00
3630	-11483	-11553	-11554	-11484	MG	0.00	0.00	500.00
3630	-12165	-12249	-12250	-12121	MG	0.00	0.00	500.00
3630	-12249	-12321	-12322	-12250	MG	0.00	0.00	500.00
3630	-12321	-12389	-12390	-12322	MG	0.00	0.00	500.00
3630	-13477	-13547	-13548	-13478	MG	0.00	0.00	500.00
3630	-11144	-11210	-11211	-11145	MG	0.00	0.00	500.00
3630	-11210	-11276	-11277	-11211	MG	0.00	0.00	500.00
3630	-11276	-11348	-11349	-11277	MG	0.00	0.00	500.00
3630	-11902	-11973	-12001	-11903	MG	0.00	0.00	500.00
3630	-11414	-11484	-11485	-11415	MG	0.00	0.00	500.00
3630	-12023	-12121	-12188	-12055	MG	0.00	0.00	500.00
3630	-12121	-12250	-12251	-12188	MG	0.00	0.00	500.00
3630	-12250	-12322	-12323	-12251	MG	0.00	0.00	500.00
3630	-11696	-11762	-11763	-11697	MG	0.00	0.00	500.00
3630	-11080	-11145	-11146	-11081	MG	0.00	0.00	500.00
3630	-12456	-12550	-12540	-12457	MG	0.00	0.00	500.00
3630	-11211	-11277	-11278	-11212	MG	0.00	0.00	500.00
3630	-11277	-11349	-11350	-11278	MG	0.00	0.00	500.00
3630	-11349	-11415	-11416	-11350	MG	0.00	0.00	500.00
3630	-12001	-12055	-12024	-11941	MG	0.00	0.00	500.00
3630	-11485	-11555	-11556	-11486	MG	0.00	0.00	500.00
3630	-12188	-12251	-12252	-12122	MG	0.00	0.00	500.00
3630	-12251	-12323	-12324	-12252	MG	0.00	0.00	500.00
3630	-12323	-12391	-12392	-12324	MG	0.00	0.00	500.00
3630	-12391	-12457	-12458	-12392	MG	0.00	0.00	500.00
3630	-12457	-12540	-12541	-12458	MG	0.00	0.00	500.00
3630	-11770	-11836	-11837	-11771	MG	0.00	0.00	500.00
3630	-11836	-11904	-11905	-11837	MG	0.00	0.00	500.00
3630	-11904	-11941	-12002	-11905	MG	0.00	0.00	500.00
3630	-11416	-11486	-11487	-11417	MG	0.00	0.00	500.00
3630	-11486	-11556	-11557	-11487	MG	0.00	0.00	500.00
3630	-12122	-12252	-12253	-12172	MG	0.00	0.00	500.00
3630	-11626	-11698	-11699	-11627	MG	0.00	0.00	500.00
3630	-11698	-11764	-11765	-11699	MG	0.00	0.00	500.00
3630	-11082	-11147	-11148	-11083	MG	0.00	0.00	500.00
3630	-11147	-11213	-11214	-11148	MG	0.00	0.00	500.00
3630	-11213	-11279	-11280	-11214	MG	0.00	0.00	500.00
3630	-11279	-11351	-11352	-11280	MG	0.00	0.00	500.00
3630	-11905	-12002	-12003	-11906	MG	0.00	0.00	500.00
3630	-12002	-12071	-12072	-12003	MG	0.00	0.00	500.00
3630	-12071	-12172	-12173	-12072	MG	0.00	0.00	500.00
3630	-12172	-12253	-12254	-12173	MG	0.00	0.00	500.00
3630	-12253	-12325	-12326	-12254	MG	0.00	0.00	500.00
3630	-11699	-11765	-11766	-11700	MG	0.00	0.00	500.00
3630	-11083	-11148	-11149	-11084	MG	0.00	0.00	500.00
3630	-11148	-11214	-11215	-11149	MG	0.00	0.00	500.00
3630	-13266	-13335	-13336	-13267	MG	0.00	0.00	500.00
3630	-13335	-13402	-13403	-13336	MG	0.00	0.00	500.00
3630	-13402	-13474	-13475	-13403	MG	0.00	0.00	500.00
3630	-13474	-13544	-13545	-13475	MG	0.00	0.00	500.00
3630	-13544	-13610	-13611	-13545	MG	0.00	0.00	500.00
3630	-11558	-11628	-11629	-11559	MG	0.00	0.00	500.00
3630	-11628	-11700	-11701	-11629	MG	0.00	0.00	500.00
3630	-13742	-13808	-13809	-13743	MG	0.00	0.00	500.00



3630	-13808	-13874	-13875	-13809	MG	0.00	0.00	500.00
3630	-13874	-13942	-13943	-13875	MG	0.00	0.00	500.00
3630	-13267	-13336	-13337	-13268	MG	0.00	0.00	500.00
3630	-13336	-13403	-13404	-13337	MG	0.00	0.00	500.00
3630	-13403	-13475	-13476	-13404	MG	0.00	0.00	500.00
3630	-13475	-13545	-13546	-13476	MG	0.00	0.00	500.00
3630	-13545	-13611	-13612	-13546	MG	0.00	0.00	500.00
3630	-13611	-13677	-13678	-13612	MG	0.00	0.00	500.00
3630	-13677	-13743	-13744	-13678	MG	0.00	0.00	500.00
3630	-11701	-11767	-11768	-11702	MG	0.00	0.00	500.00
3630	-11039	-11150	-11151	-11085	MG	0.00	0.00	500.00
3630	-11150	-11216	-11217	-11151	MG	0.00	0.00	500.00
3630	-12537	-12617	-12618	-12538	MG	0.00	0.00	500.00
3630	-13337	-13404	-13405	-13338	MG	0.00	0.00	500.00
3630	-11282	-11354	-11355	-11283	MG	0.00	0.00	500.00
3630	-11420	-11490	-11491	-11421	MG	0.00	0.00	500.00
3630	-11490	-11560	-11561	-11491	MG	0.00	0.00	500.00
3630	-11560	-11630	-11631	-11561	MG	0.00	0.00	500.00
3630	-11630	-11702	-11703	-11631	MG	0.00	0.00	500.00
3630	-11702	-11768	-11769	-11703	MG	0.00	0.00	500.00
3630	-13810	-13876	-13877	-13811	MG	0.00	0.00	500.00
3630	-11151	-11217	-11218	-11152	MG	0.00	0.00	500.00
3630	-13269	-13338	-13339	-13270	MG	0.00	0.00	500.00
3630	-13338	-13405	-13406	-13339	MG	0.00	0.00	500.00
3630	-11355	-11421	-11422	-11356	MG	0.00	0.00	500.00
3630	-13818	-13884	-13885	-13819	MG	0.00	0.00	500.00
3630	-13547	-13613	-13614	-13548	MG	0.00	0.00	500.00
3630	-13613	-13679	-13680	-13614	MG	0.00	0.00	500.00
3630	-11631	-11703	-11704	-11632	MG	0.00	0.00	500.00
3630	-13745	-13811	-13812	-13746	MG	0.00	0.00	500.00
3630	-11086	-11152	-11153	-11087	MG	0.00	0.00	500.00
3630	-13877	-13945	-13946	-13878	MG	0.00	0.00	500.00
3630	-13270	-13339	-13340	-13271	MG	0.00	0.00	500.00
3630	-13339	-13406	-13407	-13340	MG	0.00	0.00	500.00
3630	-11356	-11422	-11423	-11357	MG	0.00	0.00	500.00
3630	-11422	-11492	-11493	-11423	MG	0.00	0.00	500.00
3630	-13548	-13614	-13615	-13549	MG	0.00	0.00	500.00
3630	-13614	-13680	-13681	-13615	MG	0.00	0.00	500.00
3630	-13680	-13746	-13747	-13681	MG	0.00	0.00	500.00
3630	-13746	-13812	-13813	-13747	MG	0.00	0.00	500.00
3630	-13812	-13878	-13879	-13813	MG	0.00	0.00	500.00
3630	-13878	-13946	-13947	-13879	MG	0.00	0.00	500.00
3630	-13271	-13340	-13341	-13272	MG	0.00	0.00	500.00
3630	-13340	-13407	-13408	-13341	MG	0.00	0.00	500.00
3630	-13407	-13479	-13480	-13408	MG	0.00	0.00	500.00
3630	-13479	-13549	-13550	-13480	MG	0.00	0.00	500.00
3630	-13549	-13615	-13616	-13550	MG	0.00	0.00	500.00
3630	-13615	-13681	-13682	-13616	MG	0.00	0.00	500.00
3630	-13681	-13747	-13748	-13682	MG	0.00	0.00	500.00
3630	-13747	-13813	-13814	-13748	MG	0.00	0.00	500.00
3630	-12758	-12828	-12829	-12759	MG	0.00	0.00	500.00
3630	-12540	-12621	-12622	-12541	MG	0.00	0.00	500.00
3630	-12898	-12978	-12979	-12899	MG	0.00	0.00	500.00
3630	-12695	-12766	-12767	-12696	MG	0.00	0.00	500.00
3630	-13408	-13480	-13481	-13409	MG	0.00	0.00	500.00
3630	-11693	-11759	-11760	-11694	MG	0.00	0.00	500.00
3630	-13550	-13616	-13617	-13551	MG	0.00	0.00	500.00
3630	-13935	-13934	-14004	-14005	MG	0.00	0.00	500.00
3630	-11347	-11413	-11414	-11348	MG	0.00	0.00	500.00
3630	-13137	-13209	-13210	-13138	MG	0.00	0.00	500.00
3630	-13209	-13275	-13276	-13210	MG	0.00	0.00	500.00
3630	-13880	-13948	-13949	-13881	MG	0.00	0.00	500.00
3630	-13273	-13342	-13343	-13274	MG	0.00	0.00	500.00
3630	-12696	-12767	-12768	-12697	MG	0.00	0.00	500.00
3630	-14206	-14205	-14271	-14272	MG	0.00	0.00	500.00
3630	-13481	-13551	-13552	-13482	MG	0.00	0.00	500.00
3630	-13551	-13617	-13618	-13552	MG	0.00	0.00	500.00
3630	-12987	-13068	-13069	-12988	MG	0.00	0.00	500.00
3630	-13068	-13138	-13139	-13069	MG	0.00	0.00	500.00
3630	-11280	-11352	-11353	-11281	MG	0.00	0.00	500.00
3630	-13815	-13881	-13882	-13816	MG	0.00	0.00	500.00
3630	-13881	-13949	-13950	-13882	MG	0.00	0.00	500.00
3630	-13274	-13343	-13344	-13275	MG	0.00	0.00	500.00
3630	-13343	-13410	-13411	-13344	MG	0.00	0.00	500.00
3630	-13410	-13482	-13483	-13411	MG	0.00	0.00	500.00
3630	-13482	-13552	-13553	-13483	MG	0.00	0.00	500.00
3630	-12908	-12988	-12989	-12909	MG	0.00	0.00	500.00
3630	-12988	-13069	-13070	-12989	MG	0.00	0.00	500.00
3630	-13684	-13750	-13751	-13685	MG	0.00	0.00	500.00

3630	-15535	-15534	-15600	-15601	MG	0.00	0.00	500.00
3630	-13816	-13882	-13883	-13817	MG	0.00	0.00	500.00
3630	-13882	-13950	-13951	-13883	MG	0.00	0.00	500.00
3630	-15733	-15732	-15798	-15799	MG	0.00	0.00	500.00
3630	-15799	-15798	-15864	-15865	MG	0.00	0.00	500.00
3630	-15865	-15864	-15931	-15932	MG	0.00	0.00	500.00
3630	-13483	-13553	-13554	-13484	MG	0.00	0.00	500.00
3630	-11412	-11482	-11483	-11413	MG	0.00	0.00	500.00
3630	-12687	-12758	-12759	-12688	MG	0.00	0.00	500.00
3630	-12617	-12691	-12692	-12618	MG	0.00	0.00	500.00
3630	-11216	-11282	-11283	-11217	MG	0.00	0.00	500.00
3630	-11354	-11420	-11421	-11355	MG	0.00	0.00	500.00
3630	-11078	-11143	-11144	-11079	MG	0.00	0.00	500.00
3630	-11143	-11209	-11210	-11144	MG	0.00	0.00	500.00
3630	-13345	-13412	-13413	-13346	MG	0.00	0.00	500.00
3630	-13063	-13133	-13134	-13064	MG	0.00	0.00	500.00
3630	-12984	-13065	-13066	-12985	MG	0.00	0.00	500.00
3630	-13205	-13271	-13272	-13206	MG	0.00	0.00	500.00
3630	-12538	-12618	-12619	-12539	MG	0.00	0.00	500.00
3630	-11553	-11623	-11624	-11554	MG	0.00	0.00	500.00
3630	-11623	-11695	-11696	-11624	MG	0.00	0.00	500.00
3630	-12763	-12833	-12834	-12764	MG	0.00	0.00	500.00
3630	-11421	-11491	-11492	-11422	MG	0.00	0.00	500.00
3630	-11491	-11561	-11562	-11492	MG	0.00	0.00	500.00
3630	-12983	-13064	-13065	-12984	MG	0.00	0.00	500.00
3630	-13064	-13134	-13135	-13065	MG	0.00	0.00	500.00
3630	-13485	-13555	-13556	-13486	MG	0.00	0.00	500.00
3630	-13206	-13272	-13273	-13207	MG	0.00	0.00	500.00
3630	-11484	-11554	-11555	-11485	MG	0.00	0.00	500.00
3630	-11554	-11624	-11625	-11555	MG	0.00	0.00	500.00
3630	-11624	-11696	-11697	-11625	MG	0.00	0.00	500.00
3630	-12764	-12834	-12835	-12765	MG	0.00	0.00	500.00
3630	-12623	-12697	-12698	-12624	MG	0.00	0.00	500.00
3630	-11145	-11211	-11212	-11146	MG	0.00	0.00	500.00
3630	-13201	-13267	-13268	-13202	MG	0.00	0.00	500.00
3630	-12686	-12757	-12758	-12687	MG	0.00	0.00	500.00
3630	-12757	-12827	-12828	-12758	MG	0.00	0.00	500.00
3630	-11415	-11485	-11486	-11416	MG	0.00	0.00	500.00
3630	-11153	-11219	-11220	-11154	MG	0.00	0.00	500.00
3630	-11555	-11625	-11626	-11556	MG	0.00	0.00	500.00
3630	-11625	-11697	-11698	-11626	MG	0.00	0.00	500.00
3630	-11697	-11763	-11764	-11698	MG	0.00	0.00	500.00
3630	-11081	-11146	-11147	-11082	MG	0.00	0.00	500.00
3630	-12548	-12613	-12614	-12549	MG	0.00	0.00	500.00
3630	-12613	-12687	-12688	-12614	MG	0.00	0.00	500.00
3630	-13204	-13270	-13271	-13205	MG	0.00	0.00	500.00
3630	-11705	-11771	-11772	-11682	MG	0.00	0.00	500.00
3630	-12828	-12898	-12899	-12829	MG	0.00	0.00	500.00
3630	-11350	-11416	-11417	-11351	MG	0.00	0.00	500.00
3630	-12978	-13059	-13060	-12979	MG	0.00	0.00	500.00
3630	-11556	-11626	-11627	-11557	MG	0.00	0.00	500.00
3630	-12766	-12836	-12837	-12767	MG	0.00	0.00	500.00
3630	-13061	-13131	-13132	-13062	MG	0.00	0.00	500.00
3630	-13131	-13203	-13204	-13132	MG	0.00	0.00	500.00
3630	-13133	-13205	-13206	-13134	MG	0.00	0.00	500.00
3630	-12688	-12759	-12760	-12689	MG	0.00	0.00	500.00
3630	-12759	-12829	-12830	-12760	MG	0.00	0.00	500.00
3630	-12829	-12899	-12900	-12830	MG	0.00	0.00	500.00
3630	-12899	-12979	-12980	-12900	MG	0.00	0.00	500.00
3630	-11557	-11627	-11628	-11558	MG	0.00	0.00	500.00
3630	-13060	-13121	-13131	-13061	MG	0.00	0.00	500.00
3630	-13121	-13202	-13203	-13131	MG	0.00	0.00	500.00
3630	-13202	-13268	-13269	-13203	MG	0.00	0.00	500.00
3630	-12549	-12615	-12616	-12536	MG	0.00	0.00	500.00
3630	-12615	-12689	-12690	-12616	MG	0.00	0.00	500.00
3630	-11214	-11280	-11281	-11215	MG	0.00	0.00	500.00
3630	-11352	-11418	-11419	-11353	MG	0.00	0.00	500.00
3630	-11418	-11488	-11489	-11419	MG	0.00	0.00	500.00
3630	-11488	-11558	-11559	-11489	MG	0.00	0.00	500.00
3630	-11284	-11356	-11357	-11285	MG	0.00	0.00	500.00
3630	-12902	-12982	-12983	-12903	MG	0.00	0.00	500.00
3630	-12982	-13063	-13064	-12983	MG	0.00	0.00	500.00
3630	-13203	-13269	-13270	-13204	MG	0.00	0.00	500.00
3630	-12536	-12616	-12617	-12537	MG	0.00	0.00	500.00
3630	-11215	-11281	-11282	-11216	MG	0.00	0.00	500.00
3630	-12690	-12761	-12762	-12691	MG	0.00	0.00	500.00
3630	-12761	-12831	-12832	-12762	MG	0.00	0.00	500.00
3630	-11419	-11489	-11490	-11420	MG	0.00	0.00	500.00
3630	-11489	-11559	-11560	-11490	MG	0.00	0.00	500.00

3630	-12981	-13062	-13063	-12982	MG	0.00	0.00	500.00
3630	-13062	-13132	-13133	-13063	MG	0.00	0.00	500.00
3630	-13132	-13204	-13205	-13133	MG	0.00	0.00	500.00
3630	-12985	-13066	-13067	-12986	MG	0.00	0.00	500.00
3630	-13066	-13136	-13137	-13067	MG	0.00	0.00	500.00
3630	-11278	-11350	-11351	-11279	MG	0.00	0.00	500.00
3630	-11633	-11705	-11682	-11634	MG	0.00	0.00	500.00
3630	-12619	-12693	-12694	-12620	MG	0.00	0.00	500.00
3630	-12832	-12902	-12903	-12833	MG	0.00	0.00	500.00
3630	-14471	-14470	-14536	-14537	MG	0.00	0.00	500.00
3630	-14404	-14403	-14469	-14470	MG	0.00	0.00	500.00
3630	-12904	-12984	-12985	-12905	MG	0.00	0.00	500.00
3630	-11492	-11562	-11563	-11493	MG	0.00	0.00	500.00
3630	-11632	-11704	-11705	-11633	MG	0.00	0.00	500.00
3630	-11085	-11151	-11152	-11086	MG	0.00	0.00	500.00
3630	-12618	-12692	-12693	-12619	MG	0.00	0.00	500.00
3630	-12692	-12763	-12764	-12693	MG	0.00	0.00	500.00
3630	-11283	-11355	-11356	-11284	MG	0.00	0.00	500.00
3630	-11695	-11761	-11762	-11696	MG	0.00	0.00	500.00
3630	-11487	-11557	-11558	-11488	MG	0.00	0.00	500.00
3630	-12767	-12837	-12838	-12768	MG	0.00	0.00	500.00
3630	-11561	-11631	-11632	-11562	MG	0.00	0.00	500.00
3630	-13134	-13206	-13207	-13135	MG	0.00	0.00	500.00
3630	-11348	-11414	-11415	-11349	MG	0.00	0.00	500.00
3630	-12539	-12619	-12620	-12550	MG	0.00	0.00	500.00
3630	-11563	-11633	-11634	-11564	MG	0.00	0.00	500.00
3630	-12693	-12764	-12765	-12694	MG	0.00	0.00	500.00
3630	-13210	-13276	-13277	-13211	MG	0.00	0.00	500.00
3630	-11218	-11284	-11285	-11219	MG	0.00	0.00	500.00
3630	-12835	-12905	-12906	-12836	MG	0.00	0.00	500.00
3630	-12697	-12768	-12769	-12698	MG	0.00	0.00	500.00
3630	-12768	-12838	-12839	-12769	MG	0.00	0.00	500.00
3630	-11704	-11770	-11771	-11705	MG	0.00	0.00	500.00
3630	-11087	-11153	-11154	-11088	MG	0.00	0.00	500.00
3630	-13069	-13139	-13140	-13070	MG	0.00	0.00	500.00
3630	-12620	-12694	-12695	-12621	MG	0.00	0.00	500.00
3630	-12694	-12765	-12766	-12695	MG	0.00	0.00	500.00
3630	-11357	-11423	-11424	-11358	MG	0.00	0.00	500.00
3630	-11077	-11142	-11143	-11078	MG	0.00	0.00	500.00
3630	-11423	-11493	-11494	-11424	MG	0.00	0.00	500.00
3630	-11629	-11701	-11702	-11630	MG	0.00	0.00	500.00
3630	-15272	-15271	-15337	-15338	MG	0.00	0.00	500.00
3630	-11212	-11278	-11279	-11213	MG	0.00	0.00	500.00
3630	-11703	-11769	-11770	-11704	MG	0.00	0.00	500.00
3630	-11351	-11417	-11418	-11352	MG	0.00	0.00	500.00
3630	-12541	-12622	-12623	-12542	MG	0.00	0.00	500.00
3630	-11152	-11218	-11219	-11153	MG	0.00	0.00	500.00
3630	-11417	-11487	-11488	-11418	MG	0.00	0.00	500.00
3630	-15667	-15666	-15732	-15733	MG	0.00	0.00	500.00
3630	-12837	-12907	-12908	-12838	MG	0.00	0.00	500.00
3630	-11700	-11766	-11767	-11701	MG	0.00	0.00	500.00
3630	-11084	-11149	-11150	-11039	MG	0.00	0.00	500.00
3630	-11149	-11215	-11216	-11150	MG	0.00	0.00	500.00
3630	-14536	-14535	-14605	-14606	MG	0.00	0.00	500.00
3630	-13139	-13211	-13212	-13140	MG	0.00	0.00	500.00
3630	-12622	-12696	-12697	-12623	MG	0.00	0.00	500.00
3630	-11281	-11353	-11354	-11282	MG	0.00	0.00	500.00
3630	-11219	-11285	-11286	-11220	MG	0.00	0.00	500.00
3630	-11559	-11629	-11630	-11560	MG	0.00	0.00	500.00
3630	-12907	-12987	-12988	-12908	MG	0.00	0.00	500.00
3630	-14272	-14271	-14337	-14338	MG	0.00	0.00	500.00
3630	-11562	-11632	-11633	-11563	MG	0.00	0.00	500.00
3630	-11146	-11212	-11213	-11147	MG	0.00	0.00	500.00
3630	-11285	-11357	-11358	-11286	MG	0.00	0.00	500.00
3630	-13211	-13277	-13278	-13212	MG	0.00	0.00	500.00
3630	-14537	-14536	-14606	-14607	MG	0.00	0.00	500.00
3630	-15601	-15600	-15666	-15667	MG	0.00	0.00	500.00
3630	-15469	-15468	-15534	-15535	MG	0.00	0.00	500.00
3630	-14470	-14469	-14535	-14536	MG	0.00	0.00	500.00
3630	-11217	-11283	-11284	-11218	MG	0.00	0.00	500.00
3630	-11353	-11419	-11420	-11354	MG	0.00	0.00	500.00
3630	-11627	-11699	-11700	-11628	MG	0.00	0.00	500.00

**Elenco carichi elementi bidimensionali**

**Condizione di carico n. 7: Variabili impalc. (caso 3)**

**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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3584	-15772	-15838	-15837	-15771	MG	0.00	0.00	500.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	500.00
3584	-15178	-15245	-15244	-15177	MG	0.00	0.00	500.00
3584	-15245	-15311	-15310	-15244	MG	0.00	0.00	500.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	500.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	500.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	500.00
3584	-15044	-15113	-15112	-15043	MG	0.00	0.00	500.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	500.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	500.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	500.00
3584	-14647	-14713	-14712	-14646	MG	0.00	0.00	500.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	500.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	500.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	500.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	500.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	500.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	500.00
3584	-14179	-14245	-14244	-14178	MG	0.00	0.00	500.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	500.00
3584	-14978	-15044	-15043	-14977	MG	0.00	0.00	500.00
3584	-13441	-13511	-13510	-13440	MG	0.00	0.00	500.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	500.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	500.00
3584	-16302	-16368	-16367	-16301	MG	0.00	0.00	500.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	500.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	500.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	500.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	500.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	500.00
3584	-15905	-15971	-15970	-15904	MG	0.00	0.00	500.00
3584	-13775	-13841	-13840	-13774	MG	0.00	0.00	500.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	500.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	500.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	500.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	500.00
3584	-14714	-14780	-14779	-14713	MG	0.00	0.00	500.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	500.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	500.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	500.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	500.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	500.00
3584	-12863	-12941	-12940	-12862	MG	0.00	0.00	500.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	500.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	500.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	500.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	500.00
3584	-14911	-14977	-14976	-14910	MG	0.00	0.00	500.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	500.00
3584	-14846	-14912	-14911	-14845	MG	0.00	0.00	500.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	500.00
3584	-14845	-14911	-14910	-14844	MG	0.00	0.00	500.00
3584	-15043	-15112	-15111	-15042	MG	0.00	0.00	500.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	500.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	500.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	500.00
3584	-14245	-14311	-14310	-14244	MG	0.00	0.00	500.00
3584	-15244	-15310	-15309	-15243	MG	0.00	0.00	500.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	500.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	500.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	500.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	500.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	500.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	500.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	500.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	500.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	500.00
3584	-14580	-14648	-14647	-14579	MG	0.00	0.00	500.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	500.00
3584	-15839	-15906	-15905	-15838	MG	0.00	0.00	500.00
3584	-11933	-12058	-12051	-11932	MG	0.00	0.00	500.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	500.00
3584	-16235	-16301	-16300	-16234	MG	0.00	0.00	500.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	500.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	500.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	500.00
3584	-15640	-15706	-15705	-15639	MG	0.00	0.00	500.00
3584	-14780	-14846	-14845	-14779	MG	0.00	0.00	500.00
3584	-11792	-11854	-11853	-11791	MG	0.00	0.00	500.00

3584	-11854	-11932	-11991	-11853	MG	0.00	0.00	500.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	500.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	500.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	500.00
3584	-14114	-14180	-14179	-14113	MG	0.00	0.00	500.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	500.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	500.00
3584	-14312	-14378	-14377	-14311	MG	0.00	0.00	500.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	500.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	500.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	500.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	500.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	500.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	500.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	500.00
3584	-15177	-15244	-15243	-15176	MG	0.00	0.00	500.00
3584	-14509	-14579	-14578	-14508	MG	0.00	0.00	500.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	500.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	500.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	500.00
3584	-16236	-16302	-16301	-16235	MG	0.00	0.00	500.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	500.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	500.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	500.00
3584	-12348	-12414	-12413	-12347	MG	0.00	0.00	500.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	500.00
3584	-10965	-11053	-11036	-10964	MG	0.00	0.00	500.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	500.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	500.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	500.00
3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	500.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	500.00
3584	-12349	-12415	-12414	-12348	MG	0.00	0.00	500.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	500.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	500.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	500.00
3584	-12793	-12863	-12862	-12792	MG	0.00	0.00	500.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	500.00
3584	-15977	-15976	-15910	-15911	MG	0.00	0.00	500.00
3584	-13511	-13577	-13576	-13510	MG	0.00	0.00	500.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	500.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	500.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	500.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	500.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	500.00
3584	-13909	-13979	-13978	-13908	MG	0.00	0.00	500.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	500.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	500.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	500.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	500.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	500.00
3584	-11656	-11727	-11726	-11655	MG	0.00	0.00	500.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	500.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	500.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	500.00
3584	-11240	-11312	-11311	-11239	MG	0.00	0.00	500.00
3584	-10403	-10472	-10471	-10402	MG	0.00	0.00	500.00
3584	-10472	-10616	-10538	-10471	MG	0.00	0.00	500.00
3584	-11448	-11518	-11517	-11447	MG	0.00	0.00	500.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	500.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	500.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	500.00
3584	-10902	-10965	-10964	-10901	MG	0.00	0.00	500.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	500.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	500.00
3584	-10962	-10963	-10900	-10899	MG	0.00	0.00	500.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	500.00
3584	-16040	-16039	-15973	-15974	MG	0.00	0.00	500.00
3584	-12209	-12281	-12280	-12208	MG	0.00	0.00	500.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	500.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	500.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	500.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	500.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	500.00
3584	-10836	-10835	-10770	-10771	MG	0.00	0.00	500.00
3584	-15174	-15175	-15110	-15109	MG	0.00	0.00	500.00
3584	-15040	-15041	-14975	-14974	MG	0.00	0.00	500.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	500.00
3584	-14776	-14777	-14711	-14710	MG	0.00	0.00	500.00

3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	500.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	500.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	500.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	500.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	500.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	500.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	500.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	500.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	500.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	500.00
3584	-16310	-16309	-16243	-16244	MG	0.00	0.00	500.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	500.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	500.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	500.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	500.00
3584	-16049	-16048	-15982	-15983	MG	0.00	0.00	500.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	500.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	500.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	500.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	500.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	500.00
3584	-12411	-12412	-12346	-12345	MG	0.00	0.00	500.00
3584	-16566	-16599	-16598	-16565	MG	0.00	0.00	500.00
3584	-11053	-11108	-11107	-11036	MG	0.00	0.00	500.00
3584	-11990	-11959	-11852	-11895	MG	0.00	0.00	500.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	500.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	500.00
3584	-12806	-12805	-12735	-12736	MG	0.00	0.00	500.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	500.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	500.00
3584	-16433	-16499	-16498	-16432	MG	0.00	0.00	500.00
3584	-16181	-16180	-16114	-16115	MG	0.00	0.00	500.00
3584	-12801	-12800	-12730	-12731	MG	0.00	0.00	500.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	500.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	500.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	500.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	500.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	500.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	500.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	500.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	500.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	500.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	500.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	500.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	500.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	500.00
3584	-12728	-12727	-12656	-12657	MG	0.00	0.00	500.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	500.00
3584	-13774	-13840	-13839	-13773	MG	0.00	0.00	500.00
3584	-13840	-13908	-13907	-13839	MG	0.00	0.00	500.00
3584	-11657	-11656	-11589	-11590	MG	0.00	0.00	500.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	500.00
3584	-12663	-12662	-12588	-12589	MG	0.00	0.00	500.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	500.00
3584	-15443	-15509	-15508	-15442	MG	0.00	0.00	500.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	500.00
3584	-16500	-16566	-16565	-16499	MG	0.00	0.00	500.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	500.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	500.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	500.00
3584	-12655	-12654	-12580	-12581	MG	0.00	0.00	500.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	500.00
3584	-10669	-10653	-10545	-10564	MG	0.00	0.00	500.00
3584	-10469	-10470	-10401	-10400	MG	0.00	0.00	500.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	500.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	500.00
3584	-12282	-12281	-12209	-12210	MG	0.00	0.00	500.00
3584	-12210	-12209	-12182	-12183	MG	0.00	0.00	500.00
3584	-12183	-12182	-12058	-12032	MG	0.00	0.00	500.00
3584	-12032	-12058	-11933	-11960	MG	0.00	0.00	500.00
3584	-11960	-11933	-11855	-11856	MG	0.00	0.00	500.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	500.00
3584	-12581	-12580	-12496	-12497	MG	0.00	0.00	500.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	500.00
3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	500.00
3584	-16496	-16497	-16431	-16430	MG	0.00	0.00	500.00
3584	-16364	-16365	-16299	-16298	MG	0.00	0.00	500.00
3584	-16232	-16233	-16167	-16166	MG	0.00	0.00	500.00
3584	-16100	-16101	-16035	-16034	MG	0.00	0.00	500.00

3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	500.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	500.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	500.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	500.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	500.00
3584	-12418	-12417	-12351	-12352	MG	0.00	0.00	500.00
3584	-12352	-12351	-12283	-12284	MG	0.00	0.00	500.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	500.00
3584	-12212	-12211	-12106	-12151	MG	0.00	0.00	500.00
3584	-12151	-12106	-12033	-12088	MG	0.00	0.00	500.00
3584	-12088	-12033	-11934	-11935	MG	0.00	0.00	500.00
3584	-11935	-11934	-11896	-11857	MG	0.00	0.00	500.00
3584	-11857	-11896	-11795	-11796	MG	0.00	0.00	500.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	500.00
3584	-12499	-12498	-12418	-12419	MG	0.00	0.00	500.00
3584	-10824	-10902	-10901	-10823	MG	0.00	0.00	500.00
3584	-12353	-12352	-12284	-12285	MG	0.00	0.00	500.00
3584	-12285	-12284	-12212	-12213	MG	0.00	0.00	500.00
3584	-12213	-12212	-12151	-12107	MG	0.00	0.00	500.00
3584	-12107	-12151	-12088	-12089	MG	0.00	0.00	500.00
3584	-12089	-12088	-11935	-11961	MG	0.00	0.00	500.00
3584	-11961	-11935	-11857	-11897	MG	0.00	0.00	500.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	500.00
3584	-12584	-12583	-12499	-12500	MG	0.00	0.00	500.00
3584	-12500	-12499	-12419	-12420	MG	0.00	0.00	500.00
3584	-12420	-12419	-12353	-12354	MG	0.00	0.00	500.00
3584	-12354	-12353	-12285	-12286	MG	0.00	0.00	500.00
3584	-12286	-12285	-12213	-12214	MG	0.00	0.00	500.00
3584	-12214	-12213	-12107	-12152	MG	0.00	0.00	500.00
3584	-12152	-12107	-12089	-12090	MG	0.00	0.00	500.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	500.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	500.00
3584	-11858	-11897	-11797	-11798	MG	0.00	0.00	500.00
3584	-12585	-12584	-12500	-12501	MG	0.00	0.00	500.00
3584	-12501	-12500	-12420	-12421	MG	0.00	0.00	500.00
3584	-12421	-12420	-12354	-12355	MG	0.00	0.00	500.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	500.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	500.00
3584	-12215	-12214	-12152	-12118	MG	0.00	0.00	500.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	500.00
3584	-13440	-13510	-13509	-13439	MG	0.00	0.00	500.00
3584	-11936	-11962	-11858	-11871	MG	0.00	0.00	500.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	500.00
3584	-12727	-12726	-12655	-12656	MG	0.00	0.00	500.00
3584	-12502	-12501	-12421	-12422	MG	0.00	0.00	500.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	500.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	500.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	500.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	500.00
3584	-11378	-11448	-11447	-11377	MG	0.00	0.00	500.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	500.00
3584	-15835	-15836	-15770	-15769	MG	0.00	0.00	500.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	500.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	500.00
3584	-15439	-15440	-15374	-15373	MG	0.00	0.00	500.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	500.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	500.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	500.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	500.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	500.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	500.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	500.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	500.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	500.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	500.00
3584	-14644	-14645	-14577	-14576	MG	0.00	0.00	500.00
3584	-15307	-15308	-15242	-15241	MG	0.00	0.00	500.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	500.00
3584	-14242	-14243	-14177	-14176	MG	0.00	0.00	500.00
3584	-14908	-14909	-14843	-14842	MG	0.00	0.00	500.00
3584	-11789	-11790	-11724	-11723	MG	0.00	0.00	500.00
3584	-11652	-11653	-11586	-11585	MG	0.00	0.00	500.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	500.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	500.00
3584	-11237	-11238	-11172	-11171	MG	0.00	0.00	500.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	500.00
3584	-13161	-13162	-13094	-13093	MG	0.00	0.00	500.00
3584	-13021	-13022	-12939	-12938	MG	0.00	0.00	500.00
3584	-12860	-12861	-12791	-12790	MG	0.00	0.00	500.00

3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	500.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	500.00
3584	-13975	-13976	-13906	-13905	MG	0.00	0.00	500.00
3584	-13837	-13838	-13772	-13771	MG	0.00	0.00	500.00
3584	-13705	-13706	-13640	-13639	MG	0.00	0.00	500.00
3584	-13573	-13574	-13508	-13507	MG	0.00	0.00	500.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	500.00
3584	-11732	-11731	-11659	-11671	MG	0.00	0.00	500.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	500.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	500.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	500.00
3584	-12419	-12418	-12352	-12353	MG	0.00	0.00	500.00
3584	-12575	-12576	-12493	-12492	MG	0.00	0.00	500.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	500.00
3584	-12277	-12278	-12206	-12205	MG	0.00	0.00	500.00
3584	-12105	-12168	-12017	-12086	MG	0.00	0.00	500.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	500.00
3584	-16103	-16169	-16168	-16102	MG	0.00	0.00	500.00
3584	-12865	-12864	-12794	-12795	MG	0.00	0.00	500.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	500.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	500.00
3584	-12804	-12803	-12733	-12734	MG	0.00	0.00	500.00
3584	-12803	-12802	-12732	-12733	MG	0.00	0.00	500.00
3584	-12802	-12801	-12731	-12732	MG	0.00	0.00	500.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	500.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	500.00
3584	-10967	-10966	-10890	-10903	MG	0.00	0.00	500.00
3584	-12941	-13024	-13023	-12940	MG	0.00	0.00	500.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	500.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	500.00
3584	-10672	-10671	-10576	-10565	MG	0.00	0.00	500.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	500.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	500.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	500.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	500.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	500.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	500.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	500.00
3584	-11519	-11589	-11588	-11518	MG	0.00	0.00	500.00
3584	-11589	-11656	-11655	-11588	MG	0.00	0.00	500.00
3584	-10673	-10672	-10565	-10577	MG	0.00	0.00	500.00
3584	-10577	-10565	-10474	-10475	MG	0.00	0.00	500.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	500.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	500.00
3584	-11112	-11111	-11045	-11046	MG	0.00	0.00	500.00
3584	-11312	-11378	-11377	-11311	MG	0.00	0.00	500.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	500.00
3584	-10905	-10904	-10827	-10828	MG	0.00	0.00	500.00
3584	-11518	-11588	-11587	-11517	MG	0.00	0.00	500.00
3584	-15575	-15641	-15640	-15574	MG	0.00	0.00	500.00
3584	-10674	-10673	-10577	-10539	MG	0.00	0.00	500.00
3584	-11726	-11792	-11791	-11725	MG	0.00	0.00	500.00
3584	-11793	-11855	-11854	-11792	MG	0.00	0.00	500.00
3584	-11855	-11933	-11932	-11854	MG	0.00	0.00	500.00
3584	-11113	-11112	-11046	-11047	MG	0.00	0.00	500.00
3584	-15310	-15376	-15375	-15309	MG	0.00	0.00	500.00
3584	-12182	-12209	-12208	-12141	MG	0.00	0.00	500.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	500.00
3584	-10829	-10828	-10762	-10763	MG	0.00	0.00	500.00
3584	-10763	-10762	-10674	-10675	MG	0.00	0.00	500.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	500.00
3584	-12524	-12579	-12578	-12495	MG	0.00	0.00	500.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	500.00
3584	-10408	-10407	-10354	-10355	MG	0.00	0.00	500.00
3584	-11856	-11855	-11793	-11794	MG	0.00	0.00	500.00
3584	-11037	-11047	-10970	-10971	MG	0.00	0.00	500.00
3584	-12497	-12496	-12416	-12417	MG	0.00	0.00	500.00
3584	-16595	-16596	-16563	-16562	MG	0.00	0.00	500.00
3584	-10830	-10829	-10763	-10764	MG	0.00	0.00	500.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	500.00
3584	-12414	-12495	-12494	-12413	MG	0.00	0.00	500.00
3584	-12495	-12578	-12577	-12494	MG	0.00	0.00	500.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	500.00
3584	-10434	-10408	-10355	-10331	MG	0.00	0.00	500.00
3584	-11115	-11114	-11037	-11048	MG	0.00	0.00	500.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	500.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	500.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	500.00
3584	-10852	-10830	-10764	-10765	MG	0.00	0.00	500.00



3584	-12284	-12283	-12211	-12212	MG	0.00	0.00	500.00
3584	-10677	-10676	-10566	-10550	MG	0.00	0.00	500.00
3584	-16307	-16306	-16240	-16241	MG	0.00	0.00	500.00
3584	-10329	-10403	-10402	-10352	MG	0.00	0.00	500.00
3584	-10409	-10434	-10331	-10332	MG	0.00	0.00	500.00
3584	-16304	-16303	-16237	-16238	MG	0.00	0.00	500.00
3584	-12583	-12582	-12498	-12499	MG	0.00	0.00	500.00
3584	-10973	-10972	-10907	-10908	MG	0.00	0.00	500.00
3584	-16247	-16246	-16180	-16181	MG	0.00	0.00	500.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	500.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	500.00
3584	-16244	-16243	-16177	-16178	MG	0.00	0.00	500.00
3584	-10567	-10550	-10479	-10480	MG	0.00	0.00	500.00
3584	-10480	-10479	-10409	-10410	MG	0.00	0.00	500.00
3584	-16241	-16240	-16174	-16175	MG	0.00	0.00	500.00
3584	-11897	-11857	-11796	-11797	MG	0.00	0.00	500.00
3584	-11055	-11049	-10973	-10974	MG	0.00	0.00	500.00
3584	-16238	-16237	-16171	-16172	MG	0.00	0.00	500.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	500.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	500.00
3584	-10767	-10766	-10654	-10678	MG	0.00	0.00	500.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	500.00
3584	-10630	-10567	-10480	-10481	MG	0.00	0.00	500.00
3584	-16178	-16177	-16111	-16112	MG	0.00	0.00	500.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	500.00
3584	-11118	-11117	-11055	-11056	MG	0.00	0.00	500.00
3584	-16175	-16174	-16108	-16109	MG	0.00	0.00	500.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	500.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	500.00
3584	-16172	-16171	-16105	-16106	MG	0.00	0.00	500.00
3584	-10768	-10767	-10678	-10691	MG	0.00	0.00	500.00
3584	-10691	-10678	-10630	-10578	MG	0.00	0.00	500.00
3584	-16115	-16114	-16048	-16049	MG	0.00	0.00	500.00
3584	-11105	-11106	-11035	-11034	MG	0.00	0.00	500.00
3584	-10412	-10411	-10356	-10334	MG	0.00	0.00	500.00
3584	-16112	-16111	-16045	-16046	MG	0.00	0.00	500.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	500.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	500.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	500.00
3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	500.00
3584	-10769	-10768	-10691	-10692	MG	0.00	0.00	500.00
3584	-16106	-16105	-16039	-16040	MG	0.00	0.00	500.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	500.00
3584	-15968	-15969	-15903	-15902	MG	0.00	0.00	500.00
3584	-10413	-10412	-10334	-10335	MG	0.00	0.00	500.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	500.00
3584	-15571	-15572	-15506	-15505	MG	0.00	0.00	500.00
3584	-16046	-16045	-15979	-15980	MG	0.00	0.00	500.00
3584	-10917	-10910	-10834	-10835	MG	0.00	0.00	500.00
3584	-10835	-10834	-10769	-10770	MG	0.00	0.00	500.00
3584	-16043	-16042	-15976	-15977	MG	0.00	0.00	500.00
3584	-10821	-10822	-10756	-10755	MG	0.00	0.00	500.00
3584	-16041	-16040	-15974	-15975	MG	0.00	0.00	500.00
3584	-10484	-10483	-10413	-10414	MG	0.00	0.00	500.00
3584	-16039	-16038	-15972	-15973	MG	0.00	0.00	500.00
3584	-11121	-11120	-11058	-11059	MG	0.00	0.00	500.00
3584	-11059	-11058	-10977	-10978	MG	0.00	0.00	500.00
3584	-10978	-10977	-10917	-10911	MG	0.00	0.00	500.00
3584	-10911	-10917	-10835	-10836	MG	0.00	0.00	500.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	500.00
3584	-10771	-10770	-10679	-10680	MG	0.00	0.00	500.00
3584	-14912	-14978	-14977	-14911	MG	0.00	0.00	500.00
3584	-10580	-10568	-10484	-10485	MG	0.00	0.00	500.00
3584	-10485	-10484	-10414	-10415	MG	0.00	0.00	500.00
3584	-15113	-15178	-15177	-15112	MG	0.00	0.00	500.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	500.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	500.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	500.00
3584	-14713	-14779	-14778	-14712	MG	0.00	0.00	500.00
3584	-14779	-14845	-14844	-14778	MG	0.00	0.00	500.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	500.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	500.00
3584	-14977	-15043	-15042	-14976	MG	0.00	0.00	500.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	500.00
3584	-15112	-15177	-15176	-15111	MG	0.00	0.00	500.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	500.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	500.00
3584	-15972	-16038	-16037	-15971	MG	0.00	0.00	500.00
3584	-13437	-13438	-13366	-13365	MG	0.00	0.00	500.00

3584	-16104	-16170	-16169	-16103	MG	0.00	0.00	500.00
3584	-16170	-16236	-16235	-16169	MG	0.00	0.00	500.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	500.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	500.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	500.00
3584	-16434	-16500	-16499	-16433	MG	0.00	0.00	500.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	500.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	500.00
3584	-15971	-16037	-16036	-15970	MG	0.00	0.00	500.00
3584	-16037	-16103	-16102	-16036	MG	0.00	0.00	500.00
3584	-12866	-12865	-12795	-12796	MG	0.00	0.00	500.00
3584	-16169	-16235	-16234	-16168	MG	0.00	0.00	500.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	500.00
3584	-12805	-12804	-12734	-12735	MG	0.00	0.00	500.00
3584	-16367	-16433	-16432	-16366	MG	0.00	0.00	500.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	500.00
3584	-16499	-16565	-16564	-16498	MG	0.00	0.00	500.00
3584	-16565	-16598	-16597	-16564	MG	0.00	0.00	500.00
3584	-13302	-13369	-13368	-13301	MG	0.00	0.00	500.00
3584	-13369	-13441	-13440	-13368	MG	0.00	0.00	500.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	500.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	500.00
3584	-13577	-13643	-13642	-13576	MG	0.00	0.00	500.00
3584	-13643	-13709	-13708	-13642	MG	0.00	0.00	500.00
3584	-13709	-13775	-13774	-13708	MG	0.00	0.00	500.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	500.00
3584	-13841	-13909	-13908	-13840	MG	0.00	0.00	500.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	500.00
3584	-13301	-13368	-13367	-13300	MG	0.00	0.00	500.00
3584	-13368	-13440	-13439	-13367	MG	0.00	0.00	500.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	500.00
3584	-13510	-13576	-13575	-13509	MG	0.00	0.00	500.00
3584	-13576	-13642	-13641	-13575	MG	0.00	0.00	500.00
3584	-13642	-13708	-13707	-13641	MG	0.00	0.00	500.00
3584	-13708	-13774	-13773	-13707	MG	0.00	0.00	500.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	500.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	500.00
3584	-13908	-13978	-13977	-13907	MG	0.00	0.00	500.00
3584	-15311	-15377	-15376	-15310	MG	0.00	0.00	500.00
3584	-15377	-15443	-15442	-15376	MG	0.00	0.00	500.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	500.00
3584	-15509	-15575	-15574	-15508	MG	0.00	0.00	500.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	500.00
3584	-15641	-15707	-15706	-15640	MG	0.00	0.00	500.00
3584	-15707	-15773	-15772	-15706	MG	0.00	0.00	500.00
3584	-15773	-15839	-15838	-15772	MG	0.00	0.00	500.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	500.00
3584	-15906	-15972	-15971	-15905	MG	0.00	0.00	500.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	500.00
3584	-15376	-15442	-15441	-15375	MG	0.00	0.00	500.00
3584	-15442	-15508	-15507	-15441	MG	0.00	0.00	500.00
3584	-15508	-15574	-15573	-15507	MG	0.00	0.00	500.00
3584	-15574	-15640	-15639	-15573	MG	0.00	0.00	500.00
3584	-15825	-15892	-15891	-15824	MG	0.00	0.00	500.00
3584	-15706	-15772	-15771	-15705	MG	0.00	0.00	500.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	500.00
3584	-15838	-15905	-15904	-15837	MG	0.00	0.00	500.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	500.00
3584	-13979	-14069	-14045	-13978	MG	0.00	0.00	500.00
3584	-14069	-14114	-14113	-14045	MG	0.00	0.00	500.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	500.00
3584	-14180	-14246	-14245	-14179	MG	0.00	0.00	500.00
3584	-14246	-14312	-14311	-14245	MG	0.00	0.00	500.00
3584	-15824	-15891	-15890	-15823	MG	0.00	0.00	500.00
3584	-14378	-14444	-14443	-14377	MG	0.00	0.00	500.00
3584	-14444	-14510	-14509	-14443	MG	0.00	0.00	500.00
3584	-14510	-14580	-14579	-14509	MG	0.00	0.00	500.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	500.00
3584	-13978	-14045	-14044	-13977	MG	0.00	0.00	500.00
3584	-14045	-14113	-14112	-14044	MG	0.00	0.00	500.00
3584	-14113	-14179	-14178	-14112	MG	0.00	0.00	500.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	500.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	500.00
3584	-14311	-14377	-14376	-14310	MG	0.00	0.00	500.00
3584	-14377	-14443	-14442	-14376	MG	0.00	0.00	500.00
3584	-14443	-14509	-14508	-14442	MG	0.00	0.00	500.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	500.00
3584	-14579	-14647	-14646	-14578	MG	0.00	0.00	500.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	500.00

3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	500.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	500.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	500.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	500.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	500.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	500.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	500.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	500.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	500.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	500.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	500.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	500.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	500.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	500.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	500.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	500.00
3584	-12090	-12089	-11961	-11962	MG	0.00	0.00	500.00
3584	-11962	-11961	-11897	-11858	MG	0.00	0.00	500.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	500.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	500.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	500.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	500.00
3584	-12355	-12354	-12286	-12287	MG	0.00	0.00	500.00
3584	-12287	-12286	-12214	-12215	MG	0.00	0.00	500.00
3584	-16468	-16467	-16533	-16534	MG	0.00	0.00	500.00
3584	-12118	-12152	-12090	-12091	MG	0.00	0.00	500.00
3584	-12091	-12090	-11962	-11936	MG	0.00	0.00	500.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	500.00
3584	-11871	-11858	-11798	-11799	MG	0.00	0.00	500.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	500.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	500.00
3584	-16109	-16108	-16042	-16043	MG	0.00	0.00	500.00
3584	-10834	-10833	-10768	-10769	MG	0.00	0.00	500.00
3584	-16403	-16402	-16468	-16469	MG	0.00	0.00	500.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	500.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	500.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	500.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	500.00
3584	-15703	-15704	-15638	-15637	MG	0.00	0.00	500.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	500.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	500.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	500.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	500.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	500.00
3584	-16536	-16535	-16601	-16602	MG	0.00	0.00	500.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	500.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	500.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	500.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	500.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	500.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	500.00
3584	-14506	-14507	-14441	-14440	MG	0.00	0.00	500.00
3584	-14374	-14375	-14309	-14308	MG	0.00	0.00	500.00
3584	-16471	-16470	-16536	-16537	MG	0.00	0.00	500.00
3584	-14110	-14111	-14043	-14042	MG	0.00	0.00	500.00
3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	500.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	500.00
3584	-11515	-11516	-11446	-11445	MG	0.00	0.00	500.00
3584	-11375	-11376	-11310	-11309	MG	0.00	0.00	500.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	500.00
3584	-13298	-13299	-13230	-13229	MG	0.00	0.00	500.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	500.00
3584	-16406	-16405	-16471	-16472	MG	0.00	0.00	500.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	500.00
3584	-12720	-12721	-12650	-12649	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	500.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	500.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	500.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	500.00
3584	-16038	-16104	-16103	-16037	MG	0.00	0.00	500.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	500.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	500.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	500.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	500.00
3584	-16368	-16434	-16433	-16367	MG	0.00	0.00	500.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	500.00
3584	-12653	-12724	-12723	-12652	MG	0.00	0.00	500.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	500.00

3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	500.00
3584	-12864	-12942	-12941	-12863	MG	0.00	0.00	500.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	500.00
3584	-13025	-13095	-13125	-13024	MG	0.00	0.00	500.00
3584	-13095	-13164	-13163	-13125	MG	0.00	0.00	500.00
3584	-16301	-16367	-16366	-16300	MG	0.00	0.00	500.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	500.00
3584	-11966	-11993	-11874	-11875	MG	0.00	0.00	500.00
3584	-11875	-11874	-11804	-11805	MG	0.00	0.00	500.00
3584	-10470	-10471	-10402	-10401	MG	0.00	0.00	500.00
3584	-10400	-10401	-10328	-10327	MG	0.00	0.00	500.00
3584	-10401	-10402	-10352	-10328	MG	0.00	0.00	500.00
3584	-10653	-10670	-10538	-10545	MG	0.00	0.00	500.00
3584	-10564	-10545	-10470	-10469	MG	0.00	0.00	500.00
3584	-10545	-10538	-10471	-10470	MG	0.00	0.00	500.00
3584	-10822	-10823	-10757	-10756	MG	0.00	0.00	500.00
3584	-10755	-10756	-10653	-10669	MG	0.00	0.00	500.00
3584	-10756	-10757	-10670	-10653	MG	0.00	0.00	500.00
3584	-10963	-10964	-10901	-10900	MG	0.00	0.00	500.00
3584	-10899	-10900	-10822	-10821	MG	0.00	0.00	500.00
3584	-10900	-10901	-10823	-10822	MG	0.00	0.00	500.00
3584	-11106	-11107	-11036	-11035	MG	0.00	0.00	500.00
3584	-11034	-11035	-10963	-10962	MG	0.00	0.00	500.00
3584	-11035	-11036	-10964	-10963	MG	0.00	0.00	500.00
3584	-11238	-11239	-11173	-11172	MG	0.00	0.00	500.00
3584	-11171	-11172	-11106	-11105	MG	0.00	0.00	500.00
3584	-11172	-11173	-11107	-11106	MG	0.00	0.00	500.00
3584	-11376	-11377	-11311	-11310	MG	0.00	0.00	500.00
3584	-11309	-11310	-11238	-11237	MG	0.00	0.00	500.00
3584	-11310	-11311	-11239	-11238	MG	0.00	0.00	500.00
3584	-11516	-11517	-11447	-11446	MG	0.00	0.00	500.00
3584	-11445	-11446	-11376	-11375	MG	0.00	0.00	500.00
3584	-11446	-11447	-11377	-11376	MG	0.00	0.00	500.00
3584	-11653	-11654	-11587	-11586	MG	0.00	0.00	500.00
3584	-11585	-11586	-11516	-11515	MG	0.00	0.00	500.00
3584	-11586	-11587	-11517	-11516	MG	0.00	0.00	500.00
3584	-11790	-11791	-11725	-11724	MG	0.00	0.00	500.00
3584	-11723	-11724	-11653	-11652	MG	0.00	0.00	500.00
3584	-11724	-11725	-11654	-11653	MG	0.00	0.00	500.00
3584	-11959	-11991	-11853	-11852	MG	0.00	0.00	500.00
3584	-11895	-11852	-11790	-11789	MG	0.00	0.00	500.00
3584	-11852	-11853	-11791	-11790	MG	0.00	0.00	500.00
3584	-12168	-12169	-12087	-12017	MG	0.00	0.00	500.00
3584	-12086	-12017	-11959	-11990	MG	0.00	0.00	500.00
3584	-12017	-12087	-11991	-11959	MG	0.00	0.00	500.00
3584	-12278	-12279	-12207	-12206	MG	0.00	0.00	500.00
3584	-12205	-12206	-12168	-12105	MG	0.00	0.00	500.00
3584	-12206	-12207	-12169	-12168	MG	0.00	0.00	500.00
3584	-12412	-12413	-12347	-12346	MG	0.00	0.00	500.00
3584	-12345	-12346	-12278	-12277	MG	0.00	0.00	500.00
3584	-12346	-12347	-12279	-12278	MG	0.00	0.00	500.00
3584	-12576	-12577	-12494	-12493	MG	0.00	0.00	500.00
3584	-12492	-12493	-12412	-12411	MG	0.00	0.00	500.00
3584	-12493	-12494	-12413	-12412	MG	0.00	0.00	500.00
3584	-12721	-12722	-12651	-12650	MG	0.00	0.00	500.00
3584	-12649	-12650	-12576	-12575	MG	0.00	0.00	500.00
3584	-12650	-12651	-12577	-12576	MG	0.00	0.00	500.00
3584	-12861	-12862	-12792	-12791	MG	0.00	0.00	500.00
3584	-12790	-12791	-12721	-12720	MG	0.00	0.00	500.00
3584	-12791	-12792	-12722	-12721	MG	0.00	0.00	500.00
3584	-13022	-13023	-12940	-12939	MG	0.00	0.00	500.00
3584	-12938	-12939	-12861	-12860	MG	0.00	0.00	500.00
3584	-12939	-12940	-12862	-12861	MG	0.00	0.00	500.00
3584	-13162	-13172	-13081	-13094	MG	0.00	0.00	500.00
3584	-13093	-13094	-13022	-13021	MG	0.00	0.00	500.00
3584	-13094	-13081	-13023	-13022	MG	0.00	0.00	500.00
3584	-13299	-13300	-13231	-13230	MG	0.00	0.00	500.00
3584	-13229	-13230	-13162	-13161	MG	0.00	0.00	500.00
3584	-13230	-13231	-13172	-13162	MG	0.00	0.00	500.00
3584	-13438	-13439	-13367	-13366	MG	0.00	0.00	500.00
3584	-13365	-13366	-13299	-13298	MG	0.00	0.00	500.00
3584	-13366	-13367	-13300	-13299	MG	0.00	0.00	500.00
3584	-13574	-13575	-13509	-13508	MG	0.00	0.00	500.00
3584	-13507	-13508	-13438	-13437	MG	0.00	0.00	500.00
3584	-13508	-13509	-13439	-13438	MG	0.00	0.00	500.00
3584	-13706	-13707	-13641	-13640	MG	0.00	0.00	500.00
3584	-13639	-13640	-13574	-13573	MG	0.00	0.00	500.00
3584	-13640	-13641	-13575	-13574	MG	0.00	0.00	500.00
3584	-13838	-13839	-13773	-13772	MG	0.00	0.00	500.00

3584	-13771	-13772	-13706	-13705	MG	0.00	0.00	500.00
3584	-13772	-13773	-13707	-13706	MG	0.00	0.00	500.00
3584	-13976	-13977	-13907	-13906	MG	0.00	0.00	500.00
3584	-13905	-13906	-13838	-13837	MG	0.00	0.00	500.00
3584	-13906	-13907	-13839	-13838	MG	0.00	0.00	500.00
3584	-14111	-14112	-14044	-14043	MG	0.00	0.00	500.00
3584	-14042	-14043	-13976	-13975	MG	0.00	0.00	500.00
3584	-14043	-14044	-13977	-13976	MG	0.00	0.00	500.00
3584	-14243	-14244	-14178	-14177	MG	0.00	0.00	500.00
3584	-14176	-14177	-14111	-14110	MG	0.00	0.00	500.00
3584	-14177	-14178	-14112	-14111	MG	0.00	0.00	500.00
3584	-14375	-14376	-14310	-14309	MG	0.00	0.00	500.00
3584	-14308	-14309	-14243	-14242	MG	0.00	0.00	500.00
3584	-14309	-14310	-14244	-14243	MG	0.00	0.00	500.00
3584	-14507	-14508	-14442	-14441	MG	0.00	0.00	500.00
3584	-14440	-14441	-14375	-14374	MG	0.00	0.00	500.00
3584	-14441	-14442	-14376	-14375	MG	0.00	0.00	500.00
3584	-14645	-14646	-14578	-14577	MG	0.00	0.00	500.00
3584	-14576	-14577	-14507	-14506	MG	0.00	0.00	500.00
3584	-14577	-14578	-14508	-14507	MG	0.00	0.00	500.00
3584	-14777	-14778	-14712	-14711	MG	0.00	0.00	500.00
3584	-14710	-14711	-14645	-14644	MG	0.00	0.00	500.00
3584	-14711	-14712	-14646	-14645	MG	0.00	0.00	500.00
3584	-14909	-14910	-14844	-14843	MG	0.00	0.00	500.00
3584	-14842	-14843	-14777	-14776	MG	0.00	0.00	500.00
3584	-14843	-14844	-14778	-14777	MG	0.00	0.00	500.00
3584	-15041	-15042	-14976	-14975	MG	0.00	0.00	500.00
3584	-14974	-14975	-14909	-14908	MG	0.00	0.00	500.00
3584	-14975	-14976	-14910	-14909	MG	0.00	0.00	500.00
3584	-15175	-15176	-15111	-15110	MG	0.00	0.00	500.00
3584	-15109	-15110	-15041	-15040	MG	0.00	0.00	500.00
3584	-15110	-15111	-15042	-15041	MG	0.00	0.00	500.00
3584	-15308	-15309	-15243	-15242	MG	0.00	0.00	500.00
3584	-15241	-15242	-15175	-15174	MG	0.00	0.00	500.00
3584	-15242	-15243	-15176	-15175	MG	0.00	0.00	500.00
3584	-15440	-15441	-15375	-15374	MG	0.00	0.00	500.00
3584	-15373	-15374	-15308	-15307	MG	0.00	0.00	500.00
3584	-15374	-15375	-15309	-15308	MG	0.00	0.00	500.00
3584	-15572	-15573	-15507	-15506	MG	0.00	0.00	500.00
3584	-15505	-15506	-15440	-15439	MG	0.00	0.00	500.00
3584	-15506	-15507	-15441	-15440	MG	0.00	0.00	500.00
3584	-15704	-15705	-15639	-15638	MG	0.00	0.00	500.00
3584	-15637	-15638	-15572	-15571	MG	0.00	0.00	500.00
3584	-15638	-15639	-15573	-15572	MG	0.00	0.00	500.00
3584	-15836	-15837	-15771	-15770	MG	0.00	0.00	500.00
3584	-15769	-15770	-15704	-15703	MG	0.00	0.00	500.00
3584	-15770	-15771	-15705	-15704	MG	0.00	0.00	500.00
3584	-15969	-15970	-15904	-15903	MG	0.00	0.00	500.00
3584	-15902	-15903	-15836	-15835	MG	0.00	0.00	500.00
3584	-15903	-15904	-15837	-15836	MG	0.00	0.00	500.00
3584	-16101	-16102	-16036	-16035	MG	0.00	0.00	500.00
3584	-16034	-16035	-15969	-15968	MG	0.00	0.00	500.00
3584	-16035	-16036	-15970	-15969	MG	0.00	0.00	500.00
3584	-16233	-16234	-16168	-16167	MG	0.00	0.00	500.00
3584	-16166	-16167	-16101	-16100	MG	0.00	0.00	500.00
3584	-16167	-16168	-16102	-16101	MG	0.00	0.00	500.00
3584	-16365	-16366	-16300	-16299	MG	0.00	0.00	500.00
3584	-16298	-16299	-16233	-16232	MG	0.00	0.00	500.00
3584	-16299	-16300	-16234	-16233	MG	0.00	0.00	500.00
3584	-16497	-16498	-16432	-16431	MG	0.00	0.00	500.00
3584	-16430	-16431	-16365	-16364	MG	0.00	0.00	500.00
3584	-16431	-16432	-16366	-16365	MG	0.00	0.00	500.00
3584	-16596	-16597	-16564	-16563	MG	0.00	0.00	500.00
3584	-16562	-16563	-16497	-16496	MG	0.00	0.00	500.00
3584	-16563	-16564	-16498	-16497	MG	0.00	0.00	500.00
3584	-16464	-16465	-16531	-16530	MG	0.00	0.00	500.00
3584	-16529	-16530	-16596	-16595	MG	0.00	0.00	500.00
3584	-16530	-16531	-16597	-16596	MG	0.00	0.00	500.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	500.00
3584	-16397	-16398	-16464	-16463	MG	0.00	0.00	500.00
3584	-16398	-16399	-16465	-16464	MG	0.00	0.00	500.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	500.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	500.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	500.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	500.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	500.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	500.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	500.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	500.00

3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	500.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	500.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	500.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	500.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	500.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	500.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	500.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	500.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	500.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	500.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	500.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	500.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	500.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	500.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	500.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	500.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	500.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	500.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	500.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	500.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	500.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	500.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	500.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	500.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	500.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	500.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	500.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	500.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	500.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	500.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	500.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	500.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	500.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	500.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	500.00
3584	-11570	-11638	-11637	-11569	MG	0.00	0.00	500.00
3584	-11638	-11708	-11707	-11637	MG	0.00	0.00	500.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	500.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	500.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	500.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	500.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	500.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	500.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	500.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	500.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	500.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	500.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	500.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	500.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	500.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	500.00
3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	500.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	500.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	500.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	500.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	500.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	500.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	500.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	500.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	500.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	500.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	500.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	500.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	500.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	500.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	500.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	500.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	500.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	500.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	500.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	500.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	500.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	500.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	500.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	500.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	500.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	500.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	500.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	500.00

3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	500.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	500.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	500.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	500.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	500.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	500.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	500.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	500.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	500.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	500.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	500.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	500.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	500.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	500.00
3584	-12586	-12585	-12501	-12502	MG	0.00	0.00	500.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	500.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	500.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	500.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	500.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	500.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	500.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	500.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	500.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	500.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	500.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	500.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	500.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	500.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	500.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	500.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	500.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	500.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	500.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	500.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	500.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	500.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	500.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	500.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	500.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	500.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	500.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	500.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	500.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	500.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	500.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	500.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	500.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	500.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	500.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	500.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	500.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	500.00
3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	500.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	500.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	500.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	500.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	500.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	500.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	500.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	500.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	500.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	500.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	500.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	500.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	500.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	500.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	500.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	500.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	500.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	500.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	500.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	500.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	500.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	500.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	500.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	500.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	500.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	500.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	500.00

3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	500.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	500.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	500.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	500.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	500.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	500.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	500.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	500.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	500.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	500.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	500.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	500.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	500.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	500.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	500.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	500.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	500.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	500.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	500.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	500.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	500.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	500.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	500.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	500.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	500.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	500.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	500.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	500.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	500.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	500.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	500.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	500.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	500.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	500.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	500.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	500.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	500.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	500.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	500.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	500.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	500.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	500.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	500.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	500.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	500.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	500.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	500.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	500.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	500.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	500.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	500.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	500.00
3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	500.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	500.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	500.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	500.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	500.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	500.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	500.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	500.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	500.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	500.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	500.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	500.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	500.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	500.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	500.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	500.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	500.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	500.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	500.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	500.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	500.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	500.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	500.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	500.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	500.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	500.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	500.00



3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	500.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	500.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	500.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	500.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	500.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	500.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	500.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	500.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	500.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	500.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	500.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	500.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	500.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	500.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	500.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	500.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	500.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	500.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	500.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	500.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	500.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	500.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	500.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	500.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	500.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	500.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	500.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	500.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	500.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	500.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	500.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	500.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	500.00
3584	-15774	-15773	-15707	-15708	MG	0.00	0.00	500.00
3584	-15708	-15707	-15641	-15642	MG	0.00	0.00	500.00
3584	-15642	-15641	-15575	-15576	MG	0.00	0.00	500.00
3584	-15576	-15575	-15509	-15510	MG	0.00	0.00	500.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	500.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	500.00
3584	-15378	-15377	-15311	-15312	MG	0.00	0.00	500.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	500.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	500.00
3584	-15841	-15840	-15774	-15775	MG	0.00	0.00	500.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	500.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	500.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	500.00
3584	-15577	-15576	-15510	-15511	MG	0.00	0.00	500.00
3584	-15511	-15510	-15444	-15445	MG	0.00	0.00	500.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	500.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	500.00
3584	-15975	-15974	-15908	-15909	MG	0.00	0.00	500.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	500.00
3584	-15842	-15841	-15775	-15776	MG	0.00	0.00	500.00
3584	-15776	-15775	-15709	-15710	MG	0.00	0.00	500.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	500.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	500.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	500.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	500.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	500.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	500.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	500.00
3584	-15910	-15909	-15842	-15843	MG	0.00	0.00	500.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	500.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	500.00
3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	500.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	500.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	500.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	500.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	500.00
3584	-15381	-15380	-15314	-15315	MG	0.00	0.00	500.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	500.00
3584	-15911	-15910	-15843	-15844	MG	0.00	0.00	500.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	500.00
3584	-15778	-15777	-15711	-15712	MG	0.00	0.00	500.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	500.00
3584	-15646	-15645	-15579	-15580	MG	0.00	0.00	500.00
3584	-15580	-15579	-15513	-15514	MG	0.00	0.00	500.00
3584	-15514	-15513	-15447	-15448	MG	0.00	0.00	500.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	500.00

3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	500.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	500.00
3584	-15912	-15911	-15844	-15845	MG	0.00	0.00	500.00
3584	-15845	-15844	-15778	-15779	MG	0.00	0.00	500.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	500.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	500.00
3584	-15647	-15646	-15580	-15581	MG	0.00	0.00	500.00
3584	-15581	-15580	-15514	-15515	MG	0.00	0.00	500.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	500.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	500.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	500.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	500.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	500.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	500.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	500.00
3584	-15714	-15713	-15647	-15648	MG	0.00	0.00	500.00
3584	-15648	-15647	-15581	-15582	MG	0.00	0.00	500.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	500.00
3584	-15516	-15515	-15449	-15450	MG	0.00	0.00	500.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	500.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	500.00
3584	-15980	-15979	-15913	-15914	MG	0.00	0.00	500.00
3584	-15914	-15913	-15846	-15847	MG	0.00	0.00	500.00
3584	-15847	-15846	-15780	-15781	MG	0.00	0.00	500.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	500.00
3584	-15715	-15714	-15648	-15649	MG	0.00	0.00	500.00
3584	-15649	-15648	-15582	-15583	MG	0.00	0.00	500.00
3584	-15583	-15582	-15516	-15517	MG	0.00	0.00	500.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	500.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	500.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	500.00
3584	-15981	-15980	-15914	-15915	MG	0.00	0.00	500.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	500.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	500.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	500.00
3584	-15716	-15715	-15649	-15650	MG	0.00	0.00	500.00
3584	-15650	-15649	-15583	-15584	MG	0.00	0.00	500.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	500.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	500.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	500.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	500.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	500.00
3584	-15916	-15915	-15848	-15849	MG	0.00	0.00	500.00
3584	-15849	-15848	-15782	-15783	MG	0.00	0.00	500.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	500.00
3584	-15717	-15716	-15650	-15651	MG	0.00	0.00	500.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	500.00
3584	-15585	-15584	-15518	-15519	MG	0.00	0.00	500.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	500.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	500.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	500.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	500.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	500.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	500.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	500.00
3584	-15718	-15717	-15651	-15652	MG	0.00	0.00	500.00
3584	-15652	-15651	-15585	-15586	MG	0.00	0.00	500.00
3584	-15586	-15585	-15519	-15520	MG	0.00	0.00	500.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	500.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	500.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	500.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	500.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	500.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	500.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	500.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	500.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	500.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	500.00
3584	-15521	-15520	-15454	-15455	MG	0.00	0.00	500.00
3584	-15455	-15454	-15388	-15389	MG	0.00	0.00	500.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	500.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	500.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	500.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	500.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	500.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	500.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	500.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	500.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	500.00

3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	500.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	500.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	500.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	500.00
3584	-13843	-13842	-13776	-13777	MG	0.00	0.00	500.00
3584	-13777	-13776	-13710	-13711	MG	0.00	0.00	500.00
3584	-13711	-13710	-13644	-13645	MG	0.00	0.00	500.00
3584	-13645	-13644	-13578	-13579	MG	0.00	0.00	500.00
3584	-13579	-13578	-13512	-13513	MG	0.00	0.00	500.00
3584	-13513	-13512	-13442	-13443	MG	0.00	0.00	500.00
3584	-13443	-13442	-13370	-13371	MG	0.00	0.00	500.00
3584	-13371	-13370	-13303	-13304	MG	0.00	0.00	500.00
3584	-14648	-14714	-14713	-14647	MG	0.00	0.00	500.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	500.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	500.00
3584	-15973	-15972	-15906	-15907	MG	0.00	0.00	500.00
3584	-12579	-12653	-12652	-12578	MG	0.00	0.00	500.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	500.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	500.00
3584	-11794	-11793	-11727	-11728	MG	0.00	0.00	500.00
3584	-13444	-13443	-13371	-13372	MG	0.00	0.00	500.00
3584	-13372	-13371	-13304	-13305	MG	0.00	0.00	500.00
3584	-13983	-13982	-13912	-13913	MG	0.00	0.00	500.00
3584	-13913	-13912	-13844	-13845	MG	0.00	0.00	500.00
3584	-13845	-13844	-13778	-13779	MG	0.00	0.00	500.00
3584	-13779	-13778	-13712	-13713	MG	0.00	0.00	500.00
3584	-13713	-13712	-13646	-13647	MG	0.00	0.00	500.00
3584	-13647	-13646	-13580	-13581	MG	0.00	0.00	500.00
3584	-13581	-13580	-13514	-13515	MG	0.00	0.00	500.00
3584	-13515	-13514	-13444	-13445	MG	0.00	0.00	500.00
3584	-13445	-13444	-13372	-13373	MG	0.00	0.00	500.00
3584	-13373	-13372	-13305	-13306	MG	0.00	0.00	500.00
3584	-13984	-13983	-13913	-13914	MG	0.00	0.00	500.00
3584	-13914	-13913	-13845	-13846	MG	0.00	0.00	500.00
3584	-13846	-13845	-13779	-13780	MG	0.00	0.00	500.00
3584	-13780	-13779	-13713	-13714	MG	0.00	0.00	500.00
3584	-13714	-13713	-13647	-13648	MG	0.00	0.00	500.00
3584	-13648	-13647	-13581	-13582	MG	0.00	0.00	500.00
3584	-13582	-13581	-13515	-13516	MG	0.00	0.00	500.00
3584	-13516	-13515	-13445	-13446	MG	0.00	0.00	500.00
3584	-13446	-13445	-13373	-13374	MG	0.00	0.00	500.00
3584	-13374	-13373	-13306	-13307	MG	0.00	0.00	500.00
3584	-13985	-13984	-13914	-13915	MG	0.00	0.00	500.00
3584	-13915	-13914	-13846	-13847	MG	0.00	0.00	500.00
3584	-13847	-13846	-13780	-13781	MG	0.00	0.00	500.00
3584	-13781	-13780	-13714	-13715	MG	0.00	0.00	500.00
3584	-13715	-13714	-13648	-13649	MG	0.00	0.00	500.00
3584	-13649	-13648	-13582	-13583	MG	0.00	0.00	500.00
3584	-13583	-13582	-13516	-13517	MG	0.00	0.00	500.00
3584	-13517	-13516	-13446	-13447	MG	0.00	0.00	500.00
3584	-13447	-13446	-13374	-13375	MG	0.00	0.00	500.00
3584	-13375	-13374	-13307	-13308	MG	0.00	0.00	500.00
3584	-13986	-13985	-13915	-13916	MG	0.00	0.00	500.00
3584	-13916	-13915	-13847	-13848	MG	0.00	0.00	500.00
3584	-13848	-13847	-13781	-13782	MG	0.00	0.00	500.00
3584	-13782	-13781	-13715	-13716	MG	0.00	0.00	500.00
3584	-13716	-13715	-13649	-13650	MG	0.00	0.00	500.00
3584	-13650	-13649	-13583	-13584	MG	0.00	0.00	500.00
3584	-13584	-13583	-13517	-13518	MG	0.00	0.00	500.00
3584	-13518	-13517	-13447	-13448	MG	0.00	0.00	500.00
3584	-13448	-13447	-13375	-13376	MG	0.00	0.00	500.00
3584	-13376	-13375	-13308	-13309	MG	0.00	0.00	500.00
3584	-13987	-13986	-13916	-13917	MG	0.00	0.00	500.00
3584	-13917	-13916	-13848	-13849	MG	0.00	0.00	500.00
3584	-13849	-13848	-13782	-13783	MG	0.00	0.00	500.00
3584	-13783	-13782	-13716	-13717	MG	0.00	0.00	500.00
3584	-13717	-13716	-13650	-13651	MG	0.00	0.00	500.00
3584	-13651	-13650	-13584	-13585	MG	0.00	0.00	500.00
3584	-13585	-13584	-13518	-13519	MG	0.00	0.00	500.00
3584	-13519	-13518	-13448	-13449	MG	0.00	0.00	500.00
3584	-13449	-13448	-13376	-13377	MG	0.00	0.00	500.00
3584	-13377	-13376	-13309	-13310	MG	0.00	0.00	500.00
3584	-13988	-13987	-13917	-13918	MG	0.00	0.00	500.00
3584	-13918	-13917	-13849	-13850	MG	0.00	0.00	500.00
3584	-13850	-13849	-13783	-13784	MG	0.00	0.00	500.00
3584	-13784	-13783	-13717	-13718	MG	0.00	0.00	500.00
3584	-13718	-13717	-13651	-13652	MG	0.00	0.00	500.00
3584	-13652	-13651	-13585	-13586	MG	0.00	0.00	500.00
3584	-13586	-13585	-13519	-13520	MG	0.00	0.00	500.00

3584	-13520	-13519	-13449	-13450	MG	0.00	0.00	500.00
3584	-13450	-13449	-13377	-13378	MG	0.00	0.00	500.00
3584	-13378	-13377	-13310	-13311	MG	0.00	0.00	500.00
3584	-13989	-13988	-13918	-13919	MG	0.00	0.00	500.00
3584	-13919	-13918	-13850	-13851	MG	0.00	0.00	500.00
3584	-13851	-13850	-13784	-13785	MG	0.00	0.00	500.00
3584	-13785	-13784	-13718	-13719	MG	0.00	0.00	500.00
3584	-13719	-13718	-13652	-13653	MG	0.00	0.00	500.00
3584	-13653	-13652	-13586	-13587	MG	0.00	0.00	500.00
3584	-13587	-13586	-13520	-13521	MG	0.00	0.00	500.00
3584	-13521	-13520	-13450	-13451	MG	0.00	0.00	500.00
3584	-13451	-13450	-13378	-13379	MG	0.00	0.00	500.00
3584	-13379	-13378	-13311	-13312	MG	0.00	0.00	500.00
3584	-13990	-13989	-13919	-13920	MG	0.00	0.00	500.00
3584	-13920	-13919	-13851	-13852	MG	0.00	0.00	500.00
3584	-13852	-13851	-13785	-13786	MG	0.00	0.00	500.00
3584	-13786	-13785	-13719	-13720	MG	0.00	0.00	500.00
3584	-13720	-13719	-13653	-13654	MG	0.00	0.00	500.00
3584	-13654	-13653	-13587	-13588	MG	0.00	0.00	500.00
3584	-13588	-13587	-13521	-13522	MG	0.00	0.00	500.00
3584	-13522	-13521	-13451	-13452	MG	0.00	0.00	500.00
3584	-13452	-13451	-13379	-13380	MG	0.00	0.00	500.00
3584	-13380	-13379	-13312	-13313	MG	0.00	0.00	500.00
3584	-13991	-13990	-13920	-13921	MG	0.00	0.00	500.00
3584	-13921	-13920	-13852	-13853	MG	0.00	0.00	500.00
3584	-13853	-13852	-13786	-13787	MG	0.00	0.00	500.00
3584	-13787	-13786	-13720	-13721	MG	0.00	0.00	500.00
3584	-13721	-13720	-13654	-13655	MG	0.00	0.00	500.00
3584	-13655	-13654	-13588	-13589	MG	0.00	0.00	500.00
3584	-13589	-13588	-13522	-13523	MG	0.00	0.00	500.00
3584	-13523	-13522	-13452	-13453	MG	0.00	0.00	500.00
3584	-13453	-13452	-13380	-13381	MG	0.00	0.00	500.00
3584	-13381	-13380	-13313	-13314	MG	0.00	0.00	500.00
3584	-15312	-15311	-15245	-15246	MG	0.00	0.00	500.00
3584	-15246	-15245	-15178	-15179	MG	0.00	0.00	500.00
3584	-15179	-15178	-15113	-15114	MG	0.00	0.00	500.00
3584	-15114	-15113	-15044	-15045	MG	0.00	0.00	500.00
3584	-15045	-15044	-14978	-14979	MG	0.00	0.00	500.00
3584	-14979	-14978	-14912	-14913	MG	0.00	0.00	500.00
3584	-14913	-14912	-14846	-14847	MG	0.00	0.00	500.00
3584	-14847	-14846	-14780	-14781	MG	0.00	0.00	500.00
3584	-14781	-14780	-14714	-14715	MG	0.00	0.00	500.00
3584	-14715	-14714	-14648	-14649	MG	0.00	0.00	500.00
3584	-15313	-15312	-15246	-15247	MG	0.00	0.00	500.00
3584	-15247	-15246	-15179	-15180	MG	0.00	0.00	500.00
3584	-15180	-15179	-15114	-15115	MG	0.00	0.00	500.00
3584	-15115	-15114	-15045	-15046	MG	0.00	0.00	500.00
3584	-15046	-15045	-14979	-14980	MG	0.00	0.00	500.00
3584	-14980	-14979	-14913	-14914	MG	0.00	0.00	500.00
3584	-14914	-14913	-14847	-14848	MG	0.00	0.00	500.00
3584	-14848	-14847	-14781	-14782	MG	0.00	0.00	500.00
3584	-14782	-14781	-14715	-14716	MG	0.00	0.00	500.00
3584	-14716	-14715	-14649	-14650	MG	0.00	0.00	500.00
3584	-15314	-15313	-15247	-15248	MG	0.00	0.00	500.00
3584	-15248	-15247	-15180	-15181	MG	0.00	0.00	500.00
3584	-15181	-15180	-15115	-15116	MG	0.00	0.00	500.00
3584	-15116	-15115	-15046	-15047	MG	0.00	0.00	500.00
3584	-15047	-15046	-14980	-14981	MG	0.00	0.00	500.00
3584	-14981	-14980	-14914	-14915	MG	0.00	0.00	500.00
3584	-14915	-14914	-14848	-14849	MG	0.00	0.00	500.00
3584	-14849	-14848	-14782	-14783	MG	0.00	0.00	500.00
3584	-14783	-14782	-14716	-14717	MG	0.00	0.00	500.00
3584	-14717	-14716	-14650	-14651	MG	0.00	0.00	500.00
3584	-15315	-15314	-15248	-15249	MG	0.00	0.00	500.00
3584	-15249	-15248	-15181	-15182	MG	0.00	0.00	500.00
3584	-15182	-15181	-15116	-15117	MG	0.00	0.00	500.00
3584	-15117	-15116	-15047	-15048	MG	0.00	0.00	500.00
3584	-15048	-15047	-14981	-14982	MG	0.00	0.00	500.00
3584	-14982	-14981	-14915	-14916	MG	0.00	0.00	500.00
3584	-14916	-14915	-14849	-14850	MG	0.00	0.00	500.00
3584	-14850	-14849	-14783	-14784	MG	0.00	0.00	500.00
3584	-14784	-14783	-14717	-14718	MG	0.00	0.00	500.00
3584	-14718	-14717	-14651	-14652	MG	0.00	0.00	500.00
3584	-15316	-15315	-15249	-15250	MG	0.00	0.00	500.00
3584	-15250	-15249	-15182	-15183	MG	0.00	0.00	500.00
3584	-15183	-15182	-15117	-15118	MG	0.00	0.00	500.00
3584	-15118	-15117	-15048	-15049	MG	0.00	0.00	500.00
3584	-15049	-15048	-14982	-14983	MG	0.00	0.00	500.00
3584	-14983	-14982	-14916	-14917	MG	0.00	0.00	500.00

3584	-14917	-14916	-14850	-14851	MG	0.00	0.00	500.00
3584	-14851	-14850	-14784	-14785	MG	0.00	0.00	500.00
3584	-14785	-14784	-14718	-14719	MG	0.00	0.00	500.00
3584	-14719	-14718	-14652	-14653	MG	0.00	0.00	500.00
3584	-15317	-15316	-15250	-15251	MG	0.00	0.00	500.00
3584	-15251	-15250	-15183	-15184	MG	0.00	0.00	500.00
3584	-15184	-15183	-15118	-15133	MG	0.00	0.00	500.00
3584	-15133	-15118	-15049	-15050	MG	0.00	0.00	500.00
3584	-15050	-15049	-14983	-14984	MG	0.00	0.00	500.00
3584	-14984	-14983	-14917	-14918	MG	0.00	0.00	500.00
3584	-14918	-14917	-14851	-14852	MG	0.00	0.00	500.00
3584	-14852	-14851	-14785	-14786	MG	0.00	0.00	500.00
3584	-14786	-14785	-14719	-14720	MG	0.00	0.00	500.00
3584	-14720	-14719	-14653	-14654	MG	0.00	0.00	500.00
3584	-15318	-15317	-15251	-15252	MG	0.00	0.00	500.00
3584	-15252	-15251	-15184	-15185	MG	0.00	0.00	500.00
3584	-15185	-15184	-15133	-15119	MG	0.00	0.00	500.00
3584	-15119	-15133	-15050	-15051	MG	0.00	0.00	500.00
3584	-15051	-15050	-14984	-14985	MG	0.00	0.00	500.00
3584	-14985	-14984	-14918	-14919	MG	0.00	0.00	500.00
3584	-14919	-14918	-14852	-14853	MG	0.00	0.00	500.00
3584	-14853	-14852	-14786	-14787	MG	0.00	0.00	500.00
3584	-14787	-14786	-14720	-14721	MG	0.00	0.00	500.00
3584	-14721	-14720	-14654	-14655	MG	0.00	0.00	500.00
3584	-15319	-15318	-15252	-15253	MG	0.00	0.00	500.00
3584	-15253	-15252	-15185	-15186	MG	0.00	0.00	500.00
3584	-15186	-15185	-15119	-15120	MG	0.00	0.00	500.00
3584	-15120	-15119	-15051	-15052	MG	0.00	0.00	500.00
3584	-15052	-15051	-14985	-14986	MG	0.00	0.00	500.00
3584	-14986	-14985	-14919	-14920	MG	0.00	0.00	500.00
3584	-14920	-14919	-14853	-14854	MG	0.00	0.00	500.00
3584	-14854	-14853	-14787	-14788	MG	0.00	0.00	500.00
3584	-14788	-14787	-14721	-14722	MG	0.00	0.00	500.00
3584	-14722	-14721	-14655	-14656	MG	0.00	0.00	500.00
3584	-15320	-15319	-15253	-15254	MG	0.00	0.00	500.00
3584	-15254	-15253	-15186	-15187	MG	0.00	0.00	500.00
3584	-15187	-15186	-15120	-15095	MG	0.00	0.00	500.00
3584	-15095	-15120	-15052	-15053	MG	0.00	0.00	500.00
3584	-15053	-15052	-14986	-14987	MG	0.00	0.00	500.00
3584	-14987	-14986	-14920	-14921	MG	0.00	0.00	500.00
3584	-14921	-14920	-14854	-14855	MG	0.00	0.00	500.00
3584	-14855	-14854	-14788	-14789	MG	0.00	0.00	500.00
3584	-14789	-14788	-14722	-14723	MG	0.00	0.00	500.00
3584	-14723	-14722	-14656	-14657	MG	0.00	0.00	500.00
3584	-15321	-15320	-15254	-15255	MG	0.00	0.00	500.00
3584	-15255	-15254	-15187	-15188	MG	0.00	0.00	500.00
3584	-15188	-15187	-15095	-15134	MG	0.00	0.00	500.00
3584	-15134	-15095	-15053	-15054	MG	0.00	0.00	500.00
3584	-15054	-15053	-14987	-14988	MG	0.00	0.00	500.00
3584	-14988	-14987	-14921	-14922	MG	0.00	0.00	500.00
3584	-14922	-14921	-14855	-14856	MG	0.00	0.00	500.00
3584	-14856	-14855	-14789	-14790	MG	0.00	0.00	500.00
3584	-14790	-14789	-14723	-14724	MG	0.00	0.00	500.00
3584	-14724	-14723	-14657	-14658	MG	0.00	0.00	500.00
3584	-12800	-12799	-12729	-12730	MG	0.00	0.00	500.00
3584	-16463	-16464	-16530	-16529	MG	0.00	0.00	500.00
3584	-12798	-12797	-12727	-12728	MG	0.00	0.00	500.00
3584	-12797	-12796	-12726	-12727	MG	0.00	0.00	500.00
3584	-12796	-12795	-12725	-12726	MG	0.00	0.00	500.00
3584	-12795	-12794	-12724	-12725	MG	0.00	0.00	500.00
3584	-12736	-12735	-12664	-12665	MG	0.00	0.00	500.00
3584	-12735	-12734	-12663	-12664	MG	0.00	0.00	500.00
3584	-12734	-12733	-12662	-12663	MG	0.00	0.00	500.00
3584	-12733	-12732	-12661	-12662	MG	0.00	0.00	500.00
3584	-12732	-12731	-12660	-12661	MG	0.00	0.00	500.00
3584	-12731	-12730	-12659	-12660	MG	0.00	0.00	500.00
3584	-12730	-12729	-12658	-12659	MG	0.00	0.00	500.00
3584	-12729	-12728	-12657	-12658	MG	0.00	0.00	500.00
3584	-15056	-15055	-14989	-14990	MG	0.00	0.00	500.00
3584	-14990	-14989	-14923	-14924	MG	0.00	0.00	500.00
3584	-12726	-12725	-12654	-12655	MG	0.00	0.00	500.00
3584	-12725	-12724	-12653	-12654	MG	0.00	0.00	500.00
3584	-12665	-12664	-12590	-12591	MG	0.00	0.00	500.00
3584	-12664	-12663	-12589	-12590	MG	0.00	0.00	500.00
3584	-14649	-14648	-14580	-14581	MG	0.00	0.00	500.00
3584	-12662	-12661	-12587	-12588	MG	0.00	0.00	500.00
3584	-12661	-12660	-12586	-12587	MG	0.00	0.00	500.00
3584	-12660	-12659	-12585	-12586	MG	0.00	0.00	500.00
3584	-12659	-12658	-12584	-12585	MG	0.00	0.00	500.00

3584	-12658	-12657	-12583	-12584	MG	0.00	0.00	500.00
3584	-12657	-12656	-12582	-12583	MG	0.00	0.00	500.00
3584	-12656	-12655	-12581	-12582	MG	0.00	0.00	500.00
3584	-14115	-14114	-14069	-14046	MG	0.00	0.00	500.00
3584	-12654	-12653	-12579	-12580	MG	0.00	0.00	500.00
3584	-12580	-12579	-12524	-12496	MG	0.00	0.00	500.00
3584	-12496	-12524	-12415	-12416	MG	0.00	0.00	500.00
3584	-12416	-12415	-12349	-12350	MG	0.00	0.00	500.00
3584	-12350	-12349	-12281	-12282	MG	0.00	0.00	500.00
3584	-14380	-14379	-14313	-14314	MG	0.00	0.00	500.00
3584	-14314	-14313	-14247	-14248	MG	0.00	0.00	500.00
3584	-14248	-14247	-14181	-14182	MG	0.00	0.00	500.00
3584	-14182	-14181	-14115	-14116	MG	0.00	0.00	500.00
3584	-14116	-14115	-14046	-14093	MG	0.00	0.00	500.00
3584	-14093	-14046	-13980	-13981	MG	0.00	0.00	500.00
3584	-14651	-14650	-14582	-14583	MG	0.00	0.00	500.00
3584	-14583	-14582	-14512	-14513	MG	0.00	0.00	500.00
3584	-14513	-14512	-14446	-14447	MG	0.00	0.00	500.00
3584	-14447	-14446	-14380	-14381	MG	0.00	0.00	500.00
3584	-14381	-14380	-14314	-14315	MG	0.00	0.00	500.00
3584	-14315	-14314	-14248	-14249	MG	0.00	0.00	500.00
3584	-14249	-14248	-14182	-14183	MG	0.00	0.00	500.00
3584	-14183	-14182	-14116	-14117	MG	0.00	0.00	500.00
3584	-14117	-14116	-14093	-14047	MG	0.00	0.00	500.00
3584	-14047	-14093	-13981	-13982	MG	0.00	0.00	500.00
3584	-14652	-14651	-14583	-14584	MG	0.00	0.00	500.00
3584	-14584	-14583	-14513	-14514	MG	0.00	0.00	500.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	500.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	500.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	500.00
3584	-14316	-14315	-14249	-14250	MG	0.00	0.00	500.00
3584	-14250	-14249	-14183	-14184	MG	0.00	0.00	500.00
3584	-14184	-14183	-14117	-14118	MG	0.00	0.00	500.00
3584	-14118	-14117	-14047	-14048	MG	0.00	0.00	500.00
3584	-14048	-14047	-13982	-13983	MG	0.00	0.00	500.00
3584	-14653	-14652	-14584	-14585	MG	0.00	0.00	500.00
3584	-14585	-14584	-14514	-14515	MG	0.00	0.00	500.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	500.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	500.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	500.00
3584	-14317	-14316	-14250	-14251	MG	0.00	0.00	500.00
3584	-14251	-14250	-14184	-14185	MG	0.00	0.00	500.00
3584	-14185	-14184	-14118	-14119	MG	0.00	0.00	500.00
3584	-14119	-14118	-14048	-14049	MG	0.00	0.00	500.00
3584	-14049	-14048	-13983	-13984	MG	0.00	0.00	500.00
3584	-14654	-14653	-14585	-14586	MG	0.00	0.00	500.00
3584	-14586	-14585	-14515	-14516	MG	0.00	0.00	500.00
3584	-14516	-14515	-14449	-14450	MG	0.00	0.00	500.00
3584	-14450	-14449	-14383	-14384	MG	0.00	0.00	500.00
3584	-14384	-14383	-14317	-14318	MG	0.00	0.00	500.00
3584	-14318	-14317	-14251	-14252	MG	0.00	0.00	500.00
3584	-14252	-14251	-14185	-14186	MG	0.00	0.00	500.00
3584	-14186	-14185	-14119	-14120	MG	0.00	0.00	500.00
3584	-14120	-14119	-14049	-14050	MG	0.00	0.00	500.00
3584	-14050	-14049	-13984	-13985	MG	0.00	0.00	500.00
3584	-14655	-14654	-14586	-14587	MG	0.00	0.00	500.00
3584	-14587	-14586	-14516	-14517	MG	0.00	0.00	500.00
3584	-14517	-14516	-14450	-14451	MG	0.00	0.00	500.00
3584	-14451	-14450	-14384	-14385	MG	0.00	0.00	500.00
3584	-14385	-14384	-14318	-14319	MG	0.00	0.00	500.00
3584	-14319	-14318	-14252	-14253	MG	0.00	0.00	500.00
3584	-14253	-14252	-14186	-14187	MG	0.00	0.00	500.00
3584	-14187	-14186	-14120	-14121	MG	0.00	0.00	500.00
3584	-14121	-14120	-14050	-14051	MG	0.00	0.00	500.00
3584	-14051	-14050	-13985	-13986	MG	0.00	0.00	500.00
3584	-14656	-14655	-14587	-14588	MG	0.00	0.00	500.00
3584	-14588	-14587	-14517	-14518	MG	0.00	0.00	500.00
3584	-14518	-14517	-14451	-14452	MG	0.00	0.00	500.00
3584	-14452	-14451	-14385	-14386	MG	0.00	0.00	500.00
3584	-14386	-14385	-14319	-14320	MG	0.00	0.00	500.00
3584	-14320	-14319	-14253	-14254	MG	0.00	0.00	500.00
3584	-14254	-14253	-14187	-14188	MG	0.00	0.00	500.00
3584	-14188	-14187	-14121	-14122	MG	0.00	0.00	500.00
3584	-14122	-14121	-14051	-14052	MG	0.00	0.00	500.00
3584	-14052	-14051	-13986	-13987	MG	0.00	0.00	500.00
3584	-14657	-14656	-14588	-14589	MG	0.00	0.00	500.00
3584	-14589	-14588	-14518	-14519	MG	0.00	0.00	500.00
3584	-14519	-14518	-14452	-14453	MG	0.00	0.00	500.00
3584	-14453	-14452	-14386	-14387	MG	0.00	0.00	500.00

3584	-14387	-14386	-14320	-14321	MG	0.00	0.00	500.00
3584	-14321	-14320	-14254	-14255	MG	0.00	0.00	500.00
3584	-14255	-14254	-14188	-14189	MG	0.00	0.00	500.00
3584	-14189	-14188	-14122	-14123	MG	0.00	0.00	500.00
3584	-14123	-14122	-14052	-14053	MG	0.00	0.00	500.00
3584	-14053	-14052	-13987	-13988	MG	0.00	0.00	500.00
3584	-14658	-14657	-14589	-14590	MG	0.00	0.00	500.00
3584	-14590	-14589	-14519	-14520	MG	0.00	0.00	500.00
3584	-14520	-14519	-14453	-14454	MG	0.00	0.00	500.00
3584	-14454	-14453	-14387	-14388	MG	0.00	0.00	500.00
3584	-14388	-14387	-14321	-14322	MG	0.00	0.00	500.00
3584	-14322	-14321	-14255	-14256	MG	0.00	0.00	500.00
3584	-14256	-14255	-14189	-14190	MG	0.00	0.00	500.00
3584	-14190	-14189	-14123	-14124	MG	0.00	0.00	500.00
3584	-14124	-14123	-14053	-14054	MG	0.00	0.00	500.00
3584	-14054	-14053	-13988	-13989	MG	0.00	0.00	500.00
3584	-14659	-14658	-14590	-14591	MG	0.00	0.00	500.00
3584	-14591	-14590	-14520	-14521	MG	0.00	0.00	500.00
3584	-14521	-14520	-14454	-14455	MG	0.00	0.00	500.00
3584	-14455	-14454	-14388	-14389	MG	0.00	0.00	500.00
3584	-14389	-14388	-14322	-14323	MG	0.00	0.00	500.00
3584	-14323	-14322	-14256	-14257	MG	0.00	0.00	500.00
3584	-14257	-14256	-14190	-14191	MG	0.00	0.00	500.00
3584	-14191	-14190	-14124	-14125	MG	0.00	0.00	500.00
3584	-14125	-14124	-14054	-14055	MG	0.00	0.00	500.00
3584	-14055	-14054	-13989	-13990	MG	0.00	0.00	500.00
3584	-14660	-14659	-14591	-14592	MG	0.00	0.00	500.00
3584	-16400	-16399	-16465	-16466	MG	0.00	0.00	500.00
3584	-16466	-16465	-16531	-16532	MG	0.00	0.00	500.00
3584	-16532	-16531	-16597	-16598	MG	0.00	0.00	500.00
3584	-14390	-14389	-14323	-14324	MG	0.00	0.00	500.00
3584	-14324	-14323	-14257	-14258	MG	0.00	0.00	500.00
3584	-14258	-14257	-14191	-14192	MG	0.00	0.00	500.00
3584	-14192	-14191	-14125	-14126	MG	0.00	0.00	500.00
3584	-14126	-14125	-14055	-14056	MG	0.00	0.00	500.00
3584	-14056	-14055	-13990	-13991	MG	0.00	0.00	500.00
3584	-16611	-16610	-16577	-16578	MG	0.00	0.00	500.00
3584	-16401	-16400	-16466	-16467	MG	0.00	0.00	500.00
3584	-16467	-16466	-16532	-16533	MG	0.00	0.00	500.00
3584	-16533	-16532	-16598	-16599	MG	0.00	0.00	500.00
3584	-16607	-16606	-16573	-16574	MG	0.00	0.00	500.00
3584	-16606	-16605	-16572	-16573	MG	0.00	0.00	500.00
3584	-16605	-16604	-16571	-16572	MG	0.00	0.00	500.00
3584	-16604	-16603	-16570	-16571	MG	0.00	0.00	500.00
3584	-16603	-16602	-16569	-16570	MG	0.00	0.00	500.00
3584	-16602	-16601	-16568	-16569	MG	0.00	0.00	500.00
3584	-16601	-16600	-16567	-16568	MG	0.00	0.00	500.00
3584	-16600	-16599	-16566	-16567	MG	0.00	0.00	500.00
3584	-16578	-16577	-16511	-16512	MG	0.00	0.00	500.00
3584	-16577	-16576	-16510	-16511	MG	0.00	0.00	500.00
3584	-16576	-16575	-16509	-16510	MG	0.00	0.00	500.00
3584	-16575	-16574	-16508	-16509	MG	0.00	0.00	500.00
3584	-16574	-16573	-16507	-16508	MG	0.00	0.00	500.00
3584	-16573	-16572	-16506	-16507	MG	0.00	0.00	500.00
3584	-16572	-16571	-16505	-16506	MG	0.00	0.00	500.00
3584	-16571	-16570	-16504	-16505	MG	0.00	0.00	500.00
3584	-16570	-16569	-16503	-16504	MG	0.00	0.00	500.00
3584	-16569	-16568	-16502	-16503	MG	0.00	0.00	500.00
3584	-16568	-16567	-16501	-16502	MG	0.00	0.00	500.00
3584	-16567	-16566	-16500	-16501	MG	0.00	0.00	500.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	500.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	500.00
3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	500.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	500.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	500.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	500.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	500.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	500.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	500.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	500.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	500.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	500.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	500.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	500.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	500.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	500.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	500.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	500.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	500.00

3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	500.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	500.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	500.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	500.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	500.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	500.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	500.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	500.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	500.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	500.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	500.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	500.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	500.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	500.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	500.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	500.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	500.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	500.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	500.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	500.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	500.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	500.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	500.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	500.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	500.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	500.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	500.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	500.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	500.00
3584	-16248	-16247	-16181	-16182	MG	0.00	0.00	500.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	500.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	500.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	500.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	500.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	500.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	500.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	500.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	500.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	500.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	500.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	500.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	500.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	500.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	500.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	500.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	500.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	500.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	500.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	500.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	500.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	500.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	500.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	500.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	500.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	500.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	500.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	500.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	500.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	500.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	500.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	500.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	500.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	500.00
3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	500.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	500.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	500.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	500.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	500.00
3584	-14504	-14570	-14569	-14503	MG	0.00	0.00	500.00
3584	-14570	-14636	-14635	-14569	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	500.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	500.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	500.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	500.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	500.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	500.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	500.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	500.00



3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	500.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	500.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	500.00
3584	-15907	-15906	-15839	-15840	MG	0.00	0.00	500.00
3584	-10680	-10679	-10568	-10580	MG	0.00	0.00	500.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	500.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	500.00
3584	-10415	-10414	-10336	-10337	MG	0.00	0.00	500.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	500.00
3584	-15510	-15509	-15443	-15444	MG	0.00	0.00	500.00
3584	-15444	-15443	-15377	-15378	MG	0.00	0.00	500.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	500.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	500.00
3584	-15908	-15907	-15840	-15841	MG	0.00	0.00	500.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	500.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	500.00
3584	-15709	-15708	-15642	-15643	MG	0.00	0.00	500.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	500.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	500.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	500.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	500.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	500.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	500.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	500.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	500.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	500.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	500.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	500.00
3584	-15578	-15577	-15511	-15512	MG	0.00	0.00	500.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	500.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	500.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	500.00
3584	-15976	-15975	-15909	-15910	MG	0.00	0.00	500.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	500.00
3584	-15843	-15842	-15776	-15777	MG	0.00	0.00	500.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	500.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	500.00
3584	-15645	-15644	-15578	-15579	MG	0.00	0.00	500.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	500.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	500.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	500.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	500.00
3584	-15189	-15188	-15134	-15121	MG	0.00	0.00	500.00
3584	-15121	-15134	-15054	-15055	MG	0.00	0.00	500.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	500.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	500.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	500.00
3584	-14857	-14856	-14790	-14791	MG	0.00	0.00	500.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	500.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	500.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	500.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	500.00
3584	-15978	-15977	-15911	-15912	MG	0.00	0.00	500.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	500.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	500.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	500.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	500.00
3584	-14858	-14857	-14791	-14792	MG	0.00	0.00	500.00
3584	-14792	-14791	-14725	-14726	MG	0.00	0.00	500.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	500.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	500.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	500.00
3584	-15979	-15978	-15912	-15913	MG	0.00	0.00	500.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	500.00
3584	-15846	-15845	-15779	-15780	MG	0.00	0.00	500.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	500.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	500.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	500.00
3584	-15582	-15581	-15515	-15516	MG	0.00	0.00	500.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	500.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	500.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	500.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	500.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	500.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	500.00
3584	-15781	-15780	-15714	-15715	MG	0.00	0.00	500.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	500.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	500.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	500.00

3584	-15517	-15516	-15450	-15451	MG	0.00	0.00	500.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	500.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	500.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	500.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	500.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	500.00
3584	-15782	-15781	-15715	-15716	MG	0.00	0.00	500.00
3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	500.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	500.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	500.00
3584	-15518	-15517	-15451	-15452	MG	0.00	0.00	500.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	500.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	500.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	500.00
3584	-14448	-14447	-14381	-14382	MG	0.00	0.00	500.00
3584	-14382	-14381	-14315	-14316	MG	0.00	0.00	500.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	500.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	500.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	500.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	500.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	500.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	500.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	500.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	500.00
3584	-15917	-15916	-15849	-15850	MG	0.00	0.00	500.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	500.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	500.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	500.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	500.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	500.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	500.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	500.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	500.00
3584	-15984	-15983	-15917	-15918	MG	0.00	0.00	500.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	500.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	500.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	500.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	500.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	500.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	500.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	500.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	500.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	500.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	500.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	500.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	500.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	500.00
3584	-16534	-16533	-16599	-16600	MG	0.00	0.00	500.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	500.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	500.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	500.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	500.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	500.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	500.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	500.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	500.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	500.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	500.00
3584	-11450	-11449	-11379	-11380	MG	0.00	0.00	500.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	500.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	500.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	500.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	500.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	500.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	500.00
3584	-16404	-16403	-16469	-16470	MG	0.00	0.00	500.00
3584	-16470	-16469	-16535	-16536	MG	0.00	0.00	500.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	500.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	500.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	500.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	500.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	500.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	500.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	500.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	500.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	500.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	500.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	500.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	500.00

3584	-11382	-11381	-11315	-11316	MG	0.00	0.00	500.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	500.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	500.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	500.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	500.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	500.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	500.00
3584	-16472	-16471	-16537	-16538	MG	0.00	0.00	500.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	500.00
3584	-11453	-11452	-11382	-11383	MG	0.00	0.00	500.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	500.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	500.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	500.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	500.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	500.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	500.00
3584	-16407	-16406	-16472	-16473	MG	0.00	0.00	500.00
3584	-16473	-16472	-16538	-16539	MG	0.00	0.00	500.00
3584	-16539	-16538	-16604	-16605	MG	0.00	0.00	500.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	500.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	500.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	500.00
3584	-12724	-12794	-12793	-12723	MG	0.00	0.00	500.00
3584	-12794	-12864	-12863	-12793	MG	0.00	0.00	500.00
3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	500.00
3584	-12942	-13025	-13024	-12941	MG	0.00	0.00	500.00
3584	-16408	-16407	-16473	-16474	MG	0.00	0.00	500.00
3584	-16474	-16473	-16539	-16540	MG	0.00	0.00	500.00
3584	-13164	-13233	-13232	-13163	MG	0.00	0.00	500.00
3584	-13233	-13302	-13301	-13232	MG	0.00	0.00	500.00
3584	-12578	-12652	-12651	-12577	MG	0.00	0.00	500.00
3584	-12652	-12723	-12722	-12651	MG	0.00	0.00	500.00
3584	-12723	-12793	-12792	-12722	MG	0.00	0.00	500.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	500.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	500.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	500.00
3584	-13024	-13125	-13081	-13023	MG	0.00	0.00	500.00
3584	-13125	-13163	-13172	-13081	MG	0.00	0.00	500.00
3584	-13163	-13232	-13231	-13172	MG	0.00	0.00	500.00
3584	-13232	-13301	-13300	-13231	MG	0.00	0.00	500.00
3584	-11109	-11175	-11174	-11108	MG	0.00	0.00	500.00
3584	-11175	-11241	-11240	-11174	MG	0.00	0.00	500.00
3584	-11241	-11313	-11312	-11240	MG	0.00	0.00	500.00
3584	-11313	-11379	-11378	-11312	MG	0.00	0.00	500.00
3584	-11379	-11449	-11448	-11378	MG	0.00	0.00	500.00
3584	-11449	-11519	-11518	-11448	MG	0.00	0.00	500.00
3584	-16410	-16409	-16475	-16476	MG	0.00	0.00	500.00
3584	-16476	-16475	-16541	-16542	MG	0.00	0.00	500.00
3584	-16542	-16541	-16607	-16608	MG	0.00	0.00	500.00
3584	-11727	-11793	-11792	-11726	MG	0.00	0.00	500.00
3584	-11108	-11174	-11173	-11107	MG	0.00	0.00	500.00
3584	-11174	-11240	-11239	-11173	MG	0.00	0.00	500.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	500.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	500.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	500.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	500.00
3584	-16411	-16410	-16476	-16477	MG	0.00	0.00	500.00
3584	-11588	-11655	-11654	-11587	MG	0.00	0.00	500.00
3584	-11655	-11726	-11725	-11654	MG	0.00	0.00	500.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	500.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	500.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	500.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	500.00
3584	-12058	-12182	-12141	-12051	MG	0.00	0.00	500.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	500.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	500.00
3584	-12281	-12349	-12348	-12280	MG	0.00	0.00	500.00
3584	-16478	-16477	-16543	-16544	MG	0.00	0.00	500.00
3584	-12415	-12524	-12495	-12414	MG	0.00	0.00	500.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	500.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	500.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	500.00
3584	-11932	-12051	-12087	-11991	MG	0.00	0.00	500.00
3584	-12051	-12141	-12169	-12087	MG	0.00	0.00	500.00
3584	-12141	-12208	-12207	-12169	MG	0.00	0.00	500.00
3584	-12208	-12280	-12279	-12207	MG	0.00	0.00	500.00
3584	-12280	-12348	-12347	-12279	MG	0.00	0.00	500.00
3584	-16479	-16478	-16544	-16545	MG	0.00	0.00	500.00
3584	-16545	-16544	-16610	-16611	MG	0.00	0.00	500.00

Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	500.00
3584	3504	-10404	-10403	-10329	MG	0.00	0.00	500.00
3584	-10404	-10473	-10472	-10403	MG	0.00	0.00	500.00
3584	-10473	-10576	-10616	-10472	MG	0.00	0.00	500.00
3584	-10576	-10671	-10690	-10616	MG	0.00	0.00	500.00
3584	-10671	-10759	-10758	-10690	MG	0.00	0.00	500.00
3584	-10759	-10825	-10824	-10758	MG	0.00	0.00	500.00
3584	-10825	-10890	-10902	-10824	MG	0.00	0.00	500.00
3584	-10890	-10966	-10965	-10902	MG	0.00	0.00	500.00
3584	-10966	-11054	-11053	-10965	MG	0.00	0.00	500.00
3584	-11054	-11109	-11108	-11053	MG	0.00	0.00	500.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	500.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	500.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	500.00
3584	-10616	-10690	-10670	-10538	MG	0.00	0.00	500.00
3584	-10690	-10758	-10757	-10670	MG	0.00	0.00	500.00
3584	-10758	-10824	-10823	-10757	MG	0.00	0.00	500.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	500.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	500.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	500.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	500.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	500.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	500.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	500.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	500.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	500.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	500.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	500.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	500.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	500.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	500.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	500.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	500.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	500.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	500.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	500.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	500.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	500.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	500.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	500.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	500.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	500.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	500.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	500.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	500.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	500.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	500.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	500.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	500.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	500.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	500.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	500.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	500.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	500.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	500.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	500.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	500.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	500.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	500.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	500.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	500.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	500.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	500.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	500.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	500.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	500.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	500.00
3584	-13033	-13032	-12949	-12967	MG	0.00	0.00	500.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	500.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	500.00
3584	-13030	-13029	-12946	-12947	MG	0.00	0.00	500.00
3584	-13029	-13028	-12945	-12946	MG	0.00	0.00	500.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	500.00
3584	-13027	-13026	-12943	-12944	MG	0.00	0.00	500.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	500.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	500.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	500.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	500.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	500.00

3584	-12967	-12949	-12871	-12872	MG	0.00	0.00	500.00
3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	500.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	500.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	500.00
3584	-12946	-12945	-12867	-12868	MG	0.00	0.00	500.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	500.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	500.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	500.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	500.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	500.00
3584	-12874	-12873	-12803	-12804	MG	0.00	0.00	500.00
3584	-12873	-12872	-12802	-12803	MG	0.00	0.00	500.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	500.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	500.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	500.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	500.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	500.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	500.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	500.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	500.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	500.00
3584	-15777	-15776	-15710	-15711	MG	0.00	0.00	500.00
3584	-15711	-15710	-15644	-15645	MG	0.00	0.00	500.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	500.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	500.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	500.00
3584	-15322	-15321	-15255	-15256	MG	0.00	0.00	500.00
3584	-12799	-12798	-12728	-12729	MG	0.00	0.00	500.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	500.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	500.00
3584	-15055	-15054	-14988	-14989	MG	0.00	0.00	500.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	500.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	500.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	500.00
3584	-14791	-14790	-14724	-14725	MG	0.00	0.00	500.00
3584	-14725	-14724	-14658	-14659	MG	0.00	0.00	500.00
3584	-15323	-15322	-15256	-15257	MG	0.00	0.00	500.00
3584	-15257	-15256	-15189	-15190	MG	0.00	0.00	500.00
3584	-15190	-15189	-15121	-15122	MG	0.00	0.00	500.00
3584	-15122	-15121	-15055	-15056	MG	0.00	0.00	500.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	500.00
3584	-15779	-15778	-15712	-15713	MG	0.00	0.00	500.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	500.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	500.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	500.00
3584	-14726	-14725	-14659	-14660	MG	0.00	0.00	500.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	500.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	500.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	500.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	500.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	500.00
3584	-14313	-14312	-14246	-14247	MG	0.00	0.00	500.00
3584	-14247	-14246	-14180	-14181	MG	0.00	0.00	500.00
3584	-14181	-14180	-14114	-14115	MG	0.00	0.00	500.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	500.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	500.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	500.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	500.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	500.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	500.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	500.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	500.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	500.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	500.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	500.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	500.00
3584	-15451	-15450	-15384	-15385	MG	0.00	0.00	500.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	500.00
3584	-12417	-12416	-12350	-12351	MG	0.00	0.00	500.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	500.00
3584	-12283	-12282	-12210	-12211	MG	0.00	0.00	500.00
3584	-12211	-12210	-12183	-12106	MG	0.00	0.00	500.00
3584	-12106	-12183	-12032	-12033	MG	0.00	0.00	500.00
3584	-12033	-12032	-11960	-11934	MG	0.00	0.00	500.00
3584	-11934	-11960	-11856	-11896	MG	0.00	0.00	500.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	500.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	500.00
3584	-12498	-12497	-12417	-12418	MG	0.00	0.00	500.00
3584	-14514	-14513	-14447	-14448	MG	0.00	0.00	500.00

3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	500.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	500.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	500.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	500.00
3584	-15651	-15650	-15584	-15585	MG	0.00	0.00	500.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	500.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	500.00
3584	-15453	-15452	-15386	-15387	MG	0.00	0.00	500.00
3584	-15387	-15386	-15320	-15321	MG	0.00	0.00	500.00
3584	-14515	-14514	-14448	-14449	MG	0.00	0.00	500.00
3584	-14449	-14448	-14382	-14383	MG	0.00	0.00	500.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	500.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	500.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	500.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	500.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	500.00
3584	-15520	-15519	-15453	-15454	MG	0.00	0.00	500.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	500.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	500.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	500.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	500.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	500.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	500.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	500.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	500.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	500.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	500.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	500.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	500.00
3584	-13980	-13979	-13909	-13910	MG	0.00	0.00	500.00
3584	-13910	-13909	-13841	-13842	MG	0.00	0.00	500.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	500.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	500.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	500.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	500.00
3584	-13578	-13577	-13511	-13512	MG	0.00	0.00	500.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	500.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	500.00
3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	500.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	500.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	500.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	500.00
3584	-12216	-12215	-12118	-12142	MG	0.00	0.00	500.00
3584	-12142	-12118	-12091	-12092	MG	0.00	0.00	500.00
3584	-12092	-12091	-11936	-11963	MG	0.00	0.00	500.00
3584	-11963	-11936	-11871	-11872	MG	0.00	0.00	500.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	500.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	500.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	500.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	500.00
3584	-12357	-12356	-12288	-12289	MG	0.00	0.00	500.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	500.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	500.00
3584	-12153	-12142	-12092	-12052	MG	0.00	0.00	500.00
3584	-12052	-12092	-11963	-11964	MG	0.00	0.00	500.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	500.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	500.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	500.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	500.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	500.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	500.00
3584	-12290	-12289	-12217	-12218	MG	0.00	0.00	500.00
3584	-12218	-12217	-12153	-12154	MG	0.00	0.00	500.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	500.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	500.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	500.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	500.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	500.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	500.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	500.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	500.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	500.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	500.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	500.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	500.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	500.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	500.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	500.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	500.00

3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	500.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	500.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	500.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	500.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	500.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	500.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	500.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	500.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	500.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	500.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	500.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	500.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	500.00
3584	-11595	-11594	-11524	-11525	MG	0.00	0.00	500.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	500.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	500.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	500.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	500.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	500.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	500.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	500.00
3584	-11734	-11733	-11660	-11661	MG	0.00	0.00	500.00
3584	-11661	-11660	-11595	-11596	MG	0.00	0.00	500.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	500.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	500.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	500.00
3584	-11386	-11385	-11319	-11320	MG	0.00	0.00	500.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	500.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	500.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	500.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	500.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	500.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	500.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	500.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	500.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	500.00
3584	-11387	-11386	-11320	-11321	MG	0.00	0.00	500.00
3584	-11321	-11320	-11248	-11249	MG	0.00	0.00	500.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	500.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	500.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	500.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	500.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	500.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	500.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	500.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	500.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	500.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	500.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	500.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	500.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	500.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	500.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	500.00
3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	500.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	500.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	500.00
3584	-11389	-11388	-11322	-11323	MG	0.00	0.00	500.00
3584	-11323	-11322	-11250	-11251	MG	0.00	0.00	500.00
3584	-11251	-11250	-11184	-11185	MG	0.00	0.00	500.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	500.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	500.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	500.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	500.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	500.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	500.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	500.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	500.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	500.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	500.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	500.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	500.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	500.00
3584	-11675	-11674	-11600	-11601	MG	0.00	0.00	500.00
3584	-11601	-11600	-11530	-11531	MG	0.00	0.00	500.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	500.00
3584	-11461	-11460	-11390	-11391	MG	0.00	0.00	500.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	500.00
3584	-11325	-11324	-11252	-11253	MG	0.00	0.00	500.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	500.00

3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	500.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	500.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	500.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	500.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	500.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	500.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	500.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	500.00
3584	-13307	-13306	-13237	-13238	MG	0.00	0.00	500.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	500.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	500.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	500.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	500.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	500.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	500.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	500.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	500.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	500.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	500.00
3584	-13239	-13238	-13176	-13177	MG	0.00	0.00	500.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	500.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	500.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	500.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	500.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	500.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	500.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	500.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	500.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	500.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	500.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	500.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	500.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	500.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	500.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	500.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	500.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	500.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	500.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	500.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	500.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	500.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	500.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	500.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	500.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	500.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	500.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	500.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	500.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	500.00
3584	-13037	-13036	-12952	-12953	MG	0.00	0.00	500.00
3584	-13036	-13035	-12951	-12952	MG	0.00	0.00	500.00
3584	-13035	-13034	-12950	-12951	MG	0.00	0.00	500.00
3584	-13034	-13033	-12967	-12950	MG	0.00	0.00	500.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	500.00
3584	-13032	-13031	-12948	-12949	MG	0.00	0.00	500.00
3584	-15840	-15839	-15773	-15774	MG	0.00	0.00	500.00
3584	-11522	-11521	-11451	-11452	MG	0.00	0.00	500.00
3584	-11452	-11451	-11381	-11382	MG	0.00	0.00	500.00
3584	-13028	-13027	-12944	-12945	MG	0.00	0.00	500.00
3584	-11316	-11315	-11243	-11244	MG	0.00	0.00	500.00
3584	-13026	-13025	-12942	-12943	MG	0.00	0.00	500.00
3584	-12953	-12952	-12875	-12876	MG	0.00	0.00	500.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	500.00
3584	-15974	-15973	-15907	-15908	MG	0.00	0.00	500.00
3584	-12950	-12967	-12872	-12873	MG	0.00	0.00	500.00
3584	-11593	-11592	-11522	-11523	MG	0.00	0.00	500.00
3584	-15775	-15774	-15708	-15709	MG	0.00	0.00	500.00
3584	-12948	-12947	-12869	-12870	MG	0.00	0.00	500.00
3584	-15643	-15642	-15576	-15577	MG	0.00	0.00	500.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	500.00
3584	-12945	-12944	-12866	-12867	MG	0.00	0.00	500.00
3584	-15445	-15444	-15378	-15379	MG	0.00	0.00	500.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	500.00
3584	-12876	-12875	-12805	-12806	MG	0.00	0.00	500.00
3584	-15909	-15908	-15841	-15842	MG	0.00	0.00	500.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	500.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	500.00
3584	-15710	-15709	-15643	-15644	MG	0.00	0.00	500.00
3584	-15644	-15643	-15577	-15578	MG	0.00	0.00	500.00



3584	-12870	-12869	-12799	-12800	MG	0.00	0.00	500.00
3584	-15512	-15511	-15445	-15446	MG	0.00	0.00	500.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	500.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	500.00
3584	-11733	-11732	-11671	-11660	MG	0.00	0.00	500.00
3584	-11660	-11671	-11594	-11595	MG	0.00	0.00	500.00
3584	-12221	-12220	-12184	-12156	MG	0.00	0.00	500.00
3584	-11525	-11524	-11454	-11455	MG	0.00	0.00	500.00
3584	-11455	-11454	-11384	-11385	MG	0.00	0.00	500.00
3584	-11385	-11384	-11318	-11319	MG	0.00	0.00	500.00
3584	-15579	-15578	-15512	-15513	MG	0.00	0.00	500.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	500.00
3584	-15447	-15446	-15380	-15381	MG	0.00	0.00	500.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	500.00
3584	-10903	-10890	-10825	-10826	MG	0.00	0.00	500.00
3584	-10826	-10825	-10759	-10760	MG	0.00	0.00	500.00
3584	-15844	-15843	-15777	-15778	MG	0.00	0.00	500.00
3584	-14989	-14988	-14922	-14923	MG	0.00	0.00	500.00
3584	-15712	-15711	-15645	-15646	MG	0.00	0.00	500.00
3584	-10474	-10473	-10404	-10405	MG	0.00	0.00	500.00
3584	-11320	-11319	-11247	-11248	MG	0.00	0.00	500.00
3584	-11248	-11247	-11181	-11182	MG	0.00	0.00	500.00
3584	-15448	-15447	-15381	-15382	MG	0.00	0.00	500.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	500.00
3584	-11735	-11734	-11661	-11672	MG	0.00	0.00	500.00
3584	-11672	-11661	-11596	-11597	MG	0.00	0.00	500.00
3584	-11597	-11596	-11526	-11527	MG	0.00	0.00	500.00
3584	-11527	-11526	-11456	-11457	MG	0.00	0.00	500.00
3584	-15713	-15712	-15646	-15647	MG	0.00	0.00	500.00
3584	-10475	-10474	-10405	-10406	MG	0.00	0.00	500.00
3584	-10406	-10405	-10330	-10353	MG	0.00	0.00	500.00
3584	-15515	-15514	-15448	-15449	MG	0.00	0.00	500.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	500.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	500.00
3584	-14511	-14510	-14444	-14445	MG	0.00	0.00	500.00
3584	-15913	-15912	-15845	-15846	MG	0.00	0.00	500.00
3584	-14379	-14378	-14312	-14313	MG	0.00	0.00	500.00
3584	-15780	-15779	-15713	-15714	MG	0.00	0.00	500.00
3584	-11458	-11457	-11387	-11388	MG	0.00	0.00	500.00
3584	-11388	-11387	-11321	-11322	MG	0.00	0.00	500.00
3584	-11322	-11321	-11249	-11250	MG	0.00	0.00	500.00
3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	500.00
3584	-15450	-15449	-15383	-15384	MG	0.00	0.00	500.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	500.00
3584	-14512	-14511	-14445	-14446	MG	0.00	0.00	500.00
3584	-14446	-14445	-14379	-14380	MG	0.00	0.00	500.00
3584	-11599	-11598	-11528	-11529	MG	0.00	0.00	500.00
3584	-11529	-11528	-11458	-11459	MG	0.00	0.00	500.00
3584	-11459	-11458	-11388	-11389	MG	0.00	0.00	500.00
3584	-10477	-10476	-10407	-10408	MG	0.00	0.00	500.00
3584	-16379	-16378	-16312	-16313	MG	0.00	0.00	500.00
3584	-11114	-11113	-11047	-11037	MG	0.00	0.00	500.00
3584	-11185	-11184	-11118	-11119	MG	0.00	0.00	500.00
3584	-15385	-15384	-15318	-15319	MG	0.00	0.00	500.00
3584	-11738	-11737	-11673	-11674	MG	0.00	0.00	500.00
3584	-15915	-15914	-15847	-15848	MG	0.00	0.00	500.00
3584	-15848	-15847	-15781	-15782	MG	0.00	0.00	500.00
3584	-11530	-11529	-11459	-11460	MG	0.00	0.00	500.00
3584	-11460	-11459	-11389	-11390	MG	0.00	0.00	500.00
3584	-11390	-11389	-11323	-11324	MG	0.00	0.00	500.00
3584	-15584	-15583	-15517	-15518	MG	0.00	0.00	500.00
3584	-11896	-11856	-11794	-11795	MG	0.00	0.00	500.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	500.00
3584	-15386	-15385	-15319	-15320	MG	0.00	0.00	500.00
3584	-15982	-15981	-15915	-15916	MG	0.00	0.00	500.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	500.00
3584	-10765	-10764	-10676	-10677	MG	0.00	0.00	500.00
3584	-15783	-15782	-15716	-15717	MG	0.00	0.00	500.00
3584	-10550	-10566	-10478	-10479	MG	0.00	0.00	500.00
3584	-11391	-11390	-11324	-11325	MG	0.00	0.00	500.00
3584	-16305	-16304	-16238	-16239	MG	0.00	0.00	500.00
3584	-15519	-15518	-15452	-15453	MG	0.00	0.00	500.00
3584	-11187	-11186	-11120	-11121	MG	0.00	0.00	500.00
3584	-13314	-13313	-13244	-13245	MG	0.00	0.00	500.00
3584	-15983	-15982	-15916	-15917	MG	0.00	0.00	500.00
3584	-13312	-13311	-13242	-13243	MG	0.00	0.00	500.00
3584	-15850	-15849	-15783	-15784	MG	0.00	0.00	500.00
3584	-15784	-15783	-15717	-15718	MG	0.00	0.00	500.00
3584	-13309	-13308	-13239	-13240	MG	0.00	0.00	500.00

3584	-13308	-13307	-13238	-13239	MG	0.00	0.00	500.00
3584	-10410	-10409	-10332	-10333	MG	0.00	0.00	500.00
3584	-13306	-13305	-13236	-13237	MG	0.00	0.00	500.00
3584	-15454	-15453	-15387	-15388	MG	0.00	0.00	500.00
3584	-15388	-15387	-15321	-15322	MG	0.00	0.00	500.00
3584	-13303	-13302	-13233	-13234	MG	0.00	0.00	500.00
3584	-15918	-15917	-15850	-15851	MG	0.00	0.00	500.00
3584	-15851	-15850	-15784	-15785	MG	0.00	0.00	500.00
3584	-15785	-15784	-15718	-15719	MG	0.00	0.00	500.00
3584	-15719	-15718	-15652	-15653	MG	0.00	0.00	500.00
3584	-15653	-15652	-15586	-15587	MG	0.00	0.00	500.00
3584	-15587	-15586	-15520	-15521	MG	0.00	0.00	500.00
3584	-16176	-16175	-16109	-16110	MG	0.00	0.00	500.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	500.00
3584	-15389	-15388	-15322	-15323	MG	0.00	0.00	500.00
3584	-13236	-13235	-13173	-13174	MG	0.00	0.00	500.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	500.00
3584	-13842	-13841	-13775	-13776	MG	0.00	0.00	500.00
3584	-13776	-13775	-13709	-13710	MG	0.00	0.00	500.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	500.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	500.00
3584	-13179	-13166	-13082	-13102	MG	0.00	0.00	500.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	500.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	500.00
3584	-13370	-13369	-13302	-13303	MG	0.00	0.00	500.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	500.00
3584	-11728	-11727	-11656	-11657	MG	0.00	0.00	500.00
3584	-12288	-12287	-12215	-12216	MG	0.00	0.00	500.00
3584	-11590	-11589	-11519	-11520	MG	0.00	0.00	500.00
3584	-11520	-11519	-11449	-11450	MG	0.00	0.00	500.00
3584	-13104	-13083	-13036	-13037	MG	0.00	0.00	500.00
3584	-11380	-11379	-11313	-11314	MG	0.00	0.00	500.00
3584	-11314	-11313	-11241	-11242	MG	0.00	0.00	500.00
3584	-11242	-11241	-11175	-11176	MG	0.00	0.00	500.00
3584	-11176	-11175	-11109	-11110	MG	0.00	0.00	500.00
3584	-11795	-11794	-11728	-11729	MG	0.00	0.00	500.00
3584	-11729	-11728	-11657	-11658	MG	0.00	0.00	500.00
3584	-11658	-11657	-11590	-11591	MG	0.00	0.00	500.00
3584	-11591	-11590	-11520	-11521	MG	0.00	0.00	500.00
3584	-11521	-11520	-11450	-11451	MG	0.00	0.00	500.00
3584	-11451	-11450	-11380	-11381	MG	0.00	0.00	500.00
3584	-11381	-11380	-11314	-11315	MG	0.00	0.00	500.00
3584	-11315	-11314	-11242	-11243	MG	0.00	0.00	500.00
3584	-11243	-11242	-11176	-11177	MG	0.00	0.00	500.00
3584	-11177	-11176	-11110	-11111	MG	0.00	0.00	500.00
3584	-11796	-11795	-11729	-11730	MG	0.00	0.00	500.00
3584	-11730	-11729	-11658	-11670	MG	0.00	0.00	500.00
3584	-11670	-11658	-11591	-11592	MG	0.00	0.00	500.00
3584	-11592	-11591	-11521	-11522	MG	0.00	0.00	500.00
3584	-12154	-12153	-12052	-12018	MG	0.00	0.00	500.00
3584	-12018	-12052	-11964	-11992	MG	0.00	0.00	500.00
3584	-11992	-11964	-11859	-11873	MG	0.00	0.00	500.00
3584	-11873	-11859	-11801	-11802	MG	0.00	0.00	500.00
3584	-11244	-11243	-11177	-11178	MG	0.00	0.00	500.00
3584	-11178	-11177	-11111	-11112	MG	0.00	0.00	500.00
3584	-11797	-11796	-11730	-11731	MG	0.00	0.00	500.00
3584	-11731	-11730	-11670	-11659	MG	0.00	0.00	500.00
3584	-11659	-11670	-11592	-11593	MG	0.00	0.00	500.00
3584	-12219	-12218	-12154	-12155	MG	0.00	0.00	500.00
3584	-11523	-11522	-11452	-11453	MG	0.00	0.00	500.00
3584	-12093	-12018	-11992	-11965	MG	0.00	0.00	500.00
3584	-11383	-11382	-11316	-11317	MG	0.00	0.00	500.00
3584	-11317	-11316	-11244	-11245	MG	0.00	0.00	500.00
3584	-11245	-11244	-11178	-11179	MG	0.00	0.00	500.00
3584	-11179	-11178	-11112	-11113	MG	0.00	0.00	500.00
3584	-11798	-11797	-11731	-11732	MG	0.00	0.00	500.00
3584	-12360	-12359	-12291	-12292	MG	0.00	0.00	500.00
3584	-11671	-11659	-11593	-11594	MG	0.00	0.00	500.00
3584	-11594	-11593	-11523	-11524	MG	0.00	0.00	500.00
3584	-11524	-11523	-11453	-11454	MG	0.00	0.00	500.00
3584	-11454	-11453	-11383	-11384	MG	0.00	0.00	500.00
3584	-11384	-11383	-11317	-11318	MG	0.00	0.00	500.00
3584	-11318	-11317	-11245	-11246	MG	0.00	0.00	500.00
3584	-11246	-11245	-11179	-11180	MG	0.00	0.00	500.00
3584	-11180	-11179	-11113	-11114	MG	0.00	0.00	500.00
3584	-11799	-11798	-11732	-11733	MG	0.00	0.00	500.00
3584	-12361	-12360	-12292	-12293	MG	0.00	0.00	500.00
3584	-12293	-12292	-12220	-12221	MG	0.00	0.00	500.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	500.00

3584	-12156	-12184	-12094	-12059	MG	0.00	0.00	500.00
3584	-12059	-12094	-11993	-11966	MG	0.00	0.00	500.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	500.00
3584	-11319	-11318	-11246	-11247	MG	0.00	0.00	500.00
3584	-11247	-11246	-11180	-11181	MG	0.00	0.00	500.00
3584	-11181	-11180	-11114	-11115	MG	0.00	0.00	500.00
3584	-11800	-11799	-11733	-11734	MG	0.00	0.00	500.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	500.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	500.00
3584	-11596	-11595	-11525	-11526	MG	0.00	0.00	500.00
3584	-11526	-11525	-11455	-11456	MG	0.00	0.00	500.00
3584	-11456	-11455	-11385	-11386	MG	0.00	0.00	500.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	500.00
3584	-10405	-10404	3504	-10330	MG	0.00	0.00	500.00
3584	-11111	-11110	-11044	-11045	MG	0.00	0.00	500.00
3584	-11182	-11181	-11115	-11116	MG	0.00	0.00	500.00
3584	-11801	-11800	-11734	-11735	MG	0.00	0.00	500.00
3584	-10904	-10903	-10826	-10827	MG	0.00	0.00	500.00
3584	-10827	-10826	-10760	-10761	MG	0.00	0.00	500.00
3584	-10761	-10760	-10672	-10673	MG	0.00	0.00	500.00
3584	-16510	-16509	-16443	-16444	MG	0.00	0.00	500.00
3584	-11457	-11456	-11386	-11387	MG	0.00	0.00	500.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	500.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	500.00
3584	-11249	-11248	-11182	-11183	MG	0.00	0.00	500.00
3584	-11183	-11182	-11116	-11117	MG	0.00	0.00	500.00
3584	-11802	-11801	-11735	-11736	MG	0.00	0.00	500.00
3584	-11736	-11735	-11672	-11662	MG	0.00	0.00	500.00
3584	-11662	-11672	-11597	-11598	MG	0.00	0.00	500.00
3584	-11598	-11597	-11527	-11528	MG	0.00	0.00	500.00
3584	-11528	-11527	-11457	-11458	MG	0.00	0.00	500.00
3584	-10539	-10577	-10475	-10476	MG	0.00	0.00	500.00
3584	-10476	-10475	-10406	-10407	MG	0.00	0.00	500.00
3584	-10407	-10406	-10353	-10354	MG	0.00	0.00	500.00
3584	-11250	-11249	-11183	-11184	MG	0.00	0.00	500.00
3584	-11184	-11183	-11117	-11118	MG	0.00	0.00	500.00
3584	-11803	-11802	-11736	-11737	MG	0.00	0.00	500.00
3584	-11737	-11736	-11662	-11673	MG	0.00	0.00	500.00
3584	-11673	-11662	-11598	-11599	MG	0.00	0.00	500.00
3584	-16437	-16436	-16370	-16371	MG	0.00	0.00	500.00
3584	-10675	-10674	-10539	-10625	MG	0.00	0.00	500.00
3584	-10625	-10539	-10476	-10477	MG	0.00	0.00	500.00
3584	-16380	-16379	-16313	-16314	MG	0.00	0.00	500.00
3584	-12358	-12357	-12289	-12290	MG	0.00	0.00	500.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	500.00
3584	-16377	-16376	-16310	-16311	MG	0.00	0.00	500.00
3584	-11804	-11803	-11737	-11738	MG	0.00	0.00	500.00
3584	-10891	-10906	-10829	-10830	MG	0.00	0.00	500.00
3584	-11674	-11673	-11599	-11600	MG	0.00	0.00	500.00
3584	-11600	-11599	-11529	-11530	MG	0.00	0.00	500.00
3584	-10676	-10675	-10625	-10566	MG	0.00	0.00	500.00
3584	-10566	-10625	-10477	-10478	MG	0.00	0.00	500.00
3584	-10478	-10477	-10408	-10434	MG	0.00	0.00	500.00
3584	-11324	-11323	-11251	-11252	MG	0.00	0.00	500.00
3584	-11252	-11251	-11185	-11186	MG	0.00	0.00	500.00
3584	-11186	-11185	-11119	-11120	MG	0.00	0.00	500.00
3584	-11805	-11804	-11738	-11739	MG	0.00	0.00	500.00
3584	-11739	-11738	-11674	-11675	MG	0.00	0.00	500.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	500.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	500.00
3584	-11531	-11530	-11460	-11461	MG	0.00	0.00	500.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	500.00
3584	-10479	-10478	-10434	-10409	MG	0.00	0.00	500.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	500.00
3584	-11253	-11252	-11186	-11187	MG	0.00	0.00	500.00
3584	-11049	-11048	-10972	-10973	MG	0.00	0.00	500.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	500.00
3584	-13313	-13312	-13243	-13244	MG	0.00	0.00	500.00
3584	-10831	-10852	-10765	-10766	MG	0.00	0.00	500.00
3584	-13311	-13310	-13241	-13242	MG	0.00	0.00	500.00
3584	-13310	-13309	-13240	-13241	MG	0.00	0.00	500.00
3584	-16243	-16242	-16176	-16177	MG	0.00	0.00	500.00
3584	-16242	-16241	-16175	-16176	MG	0.00	0.00	500.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	500.00
3584	-11117	-11116	-11049	-11055	MG	0.00	0.00	500.00
3584	-13305	-13304	-13235	-13236	MG	0.00	0.00	500.00
3584	-13304	-13303	-13234	-13235	MG	0.00	0.00	500.00
3584	-10916	-10908	-10831	-10832	MG	0.00	0.00	500.00
3584	-13245	-13244	-13181	-13182	MG	0.00	0.00	500.00

3584	-13244	-13243	-13180	-13181	MG	0.00	0.00	500.00
3584	-13243	-13242	-13179	-13180	MG	0.00	0.00	500.00
3584	-13242	-13241	-13166	-13179	MG	0.00	0.00	500.00
3584	-13241	-13240	-13178	-13166	MG	0.00	0.00	500.00
3584	-13240	-13239	-13177	-13178	MG	0.00	0.00	500.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	500.00
3584	-13238	-13237	-13175	-13176	MG	0.00	0.00	500.00
3584	-13237	-13236	-13174	-13175	MG	0.00	0.00	500.00
3584	-10909	-10916	-10832	-10833	MG	0.00	0.00	500.00
3584	-13235	-13234	-13165	-13173	MG	0.00	0.00	500.00
3584	-13234	-13233	-13164	-13165	MG	0.00	0.00	500.00
3584	-13182	-13181	-13083	-13104	MG	0.00	0.00	500.00
3584	-13181	-13180	-13103	-13083	MG	0.00	0.00	500.00
3584	-13180	-13179	-13102	-13103	MG	0.00	0.00	500.00
3584	-16113	-16112	-16046	-16047	MG	0.00	0.00	500.00
3584	-13166	-13178	-13101	-13082	MG	0.00	0.00	500.00
3584	-13178	-13177	-13100	-13101	MG	0.00	0.00	500.00
3584	-13177	-13176	-13099	-13100	MG	0.00	0.00	500.00
3584	-13176	-13175	-13098	-13099	MG	0.00	0.00	500.00
3584	-13175	-13174	-13126	-13098	MG	0.00	0.00	500.00
3584	-13174	-13173	-13097	-13126	MG	0.00	0.00	500.00
3584	-13173	-13165	-13096	-13097	MG	0.00	0.00	500.00
3584	-13165	-13164	-13095	-13096	MG	0.00	0.00	500.00
3584	-10483	-10482	-10412	-10413	MG	0.00	0.00	500.00
3584	-13083	-13103	-13035	-13036	MG	0.00	0.00	500.00
3584	-13103	-13102	-13034	-13035	MG	0.00	0.00	500.00
3584	-13102	-13082	-13033	-13034	MG	0.00	0.00	500.00
3584	-13082	-13101	-13032	-13033	MG	0.00	0.00	500.00
3584	-13101	-13100	-13031	-13032	MG	0.00	0.00	500.00
3584	-13100	-13099	-13030	-13031	MG	0.00	0.00	500.00
3584	-13099	-13098	-13029	-13030	MG	0.00	0.00	500.00
3584	-13098	-13126	-13028	-13029	MG	0.00	0.00	500.00
3584	-13126	-13097	-13027	-13028	MG	0.00	0.00	500.00
3584	-13097	-13096	-13026	-13027	MG	0.00	0.00	500.00
3584	-13096	-13095	-13025	-13026	MG	0.00	0.00	500.00
3584	-11859	-11872	-11800	-11801	MG	0.00	0.00	500.00
3584	-12588	-12587	-12503	-12504	MG	0.00	0.00	500.00
3584	-12504	-12503	-12423	-12424	MG	0.00	0.00	500.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	500.00
3584	-12424	-12423	-12357	-12358	MG	0.00	0.00	500.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	500.00
3584	-13031	-13030	-12947	-12948	MG	0.00	0.00	500.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	500.00
3584	-10971	-10970	-10906	-10891	MG	0.00	0.00	500.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	500.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	500.00
3584	-12589	-12588	-12504	-12505	MG	0.00	0.00	500.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	500.00
3584	-12952	-12951	-12874	-12875	MG	0.00	0.00	500.00
3584	-12951	-12950	-12873	-12874	MG	0.00	0.00	500.00
3584	-12291	-12290	-12218	-12219	MG	0.00	0.00	500.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	500.00
3584	-12949	-12948	-12870	-12871	MG	0.00	0.00	500.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	500.00
3584	-12947	-12946	-12868	-12869	MG	0.00	0.00	500.00
3584	-11860	-11873	-11802	-11803	MG	0.00	0.00	500.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	500.00
3584	-12944	-12943	-12865	-12866	MG	0.00	0.00	500.00
3584	-12943	-12942	-12864	-12865	MG	0.00	0.00	500.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	500.00
3584	-12875	-12874	-12804	-12805	MG	0.00	0.00	500.00
3584	-12220	-12219	-12155	-12184	MG	0.00	0.00	500.00
3584	-12184	-12155	-12093	-12094	MG	0.00	0.00	500.00
3584	-12872	-12871	-12801	-12802	MG	0.00	0.00	500.00
3584	-12871	-12870	-12800	-12801	MG	0.00	0.00	500.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	500.00
3584	-12869	-12868	-12798	-12799	MG	0.00	0.00	500.00
3584	-12868	-12867	-12797	-12798	MG	0.00	0.00	500.00
3584	-12867	-12866	-12796	-12797	MG	0.00	0.00	500.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	500.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	500.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	500.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	500.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	500.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	500.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	500.00
3584	-15513	-15512	-15446	-15447	MG	0.00	0.00	500.00
3584	-11044	-11054	-10966	-10967	MG	0.00	0.00	500.00
3584	-15256	-15255	-15188	-15189	MG	0.00	0.00	500.00

3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	500.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	500.00
3584	-10760	-10759	-10671	-10672	MG	0.00	0.00	500.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	500.00
3584	-14923	-14922	-14856	-14857	MG	0.00	0.00	500.00
3584	-16173	-16172	-16106	-16107	MG	0.00	0.00	500.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	500.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	500.00
3584	-11045	-11044	-10967	-10968	MG	0.00	0.00	500.00
3584	-15382	-15381	-15315	-15316	MG	0.00	0.00	500.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	500.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	500.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	500.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	500.00
3584	-14924	-14923	-14857	-14858	MG	0.00	0.00	500.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	500.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	500.00
3584	-16506	-16505	-16439	-16440	MG	0.00	0.00	500.00
3584	-15449	-15448	-15382	-15383	MG	0.00	0.00	500.00
3584	-14581	-14580	-14510	-14511	MG	0.00	0.00	500.00
3584	-16503	-16502	-16436	-16437	MG	0.00	0.00	500.00
3584	-14445	-14444	-14378	-14379	MG	0.00	0.00	500.00
3584	-10762	-10761	-10673	-10674	MG	0.00	0.00	500.00
3584	-16446	-16445	-16379	-16380	MG	0.00	0.00	500.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	500.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	500.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	500.00
3584	-14046	-14069	-13979	-13980	MG	0.00	0.00	500.00
3584	-14650	-14649	-14581	-14582	MG	0.00	0.00	500.00
3584	-14582	-14581	-14511	-14512	MG	0.00	0.00	500.00
3584	-10906	-10905	-10828	-10829	MG	0.00	0.00	500.00
3584	-16438	-16437	-16371	-16372	MG	0.00	0.00	500.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	500.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	500.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	500.00
3584	-16435	-16434	-16368	-16369	MG	0.00	0.00	500.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	500.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	500.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	500.00
3584	-16537	-16536	-16602	-16603	MG	0.00	0.00	500.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	500.00
3584	-12351	-12350	-12282	-12283	MG	0.00	0.00	500.00
3584	-10764	-10763	-10675	-10676	MG	0.00	0.00	500.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	500.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	500.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	500.00
3584	-16369	-16368	-16302	-16303	MG	0.00	0.00	500.00
3584	-16314	-16313	-16247	-16248	MG	0.00	0.00	500.00
3584	-12582	-12581	-12497	-12498	MG	0.00	0.00	500.00
3584	-10972	-10971	-10891	-10907	MG	0.00	0.00	500.00
3584	-10907	-10891	-10830	-10852	MG	0.00	0.00	500.00
3584	-11965	-11992	-11873	-11860	MG	0.00	0.00	500.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	500.00
3584	-16308	-16307	-16241	-16242	MG	0.00	0.00	500.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	500.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	500.00
3584	-14456	-14455	-14389	-14390	MG	0.00	0.00	500.00
3584	-11116	-11115	-11048	-11049	MG	0.00	0.00	500.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	500.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	500.00
3584	-10908	-10907	-10852	-10831	MG	0.00	0.00	500.00
3584	-16246	-16245	-16179	-16180	MG	0.00	0.00	500.00
3584	-14383	-14382	-14316	-14317	MG	0.00	0.00	500.00
3584	-10654	-10677	-10550	-10567	MG	0.00	0.00	500.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	500.00
3584	-12427	-12426	-12360	-12361	MG	0.00	0.00	500.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	500.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	500.00
3584	-16239	-16238	-16172	-16173	MG	0.00	0.00	500.00
3584	-10974	-10973	-10908	-10916	MG	0.00	0.00	500.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	500.00
3584	-10832	-10831	-10766	-10767	MG	0.00	0.00	500.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	500.00
3584	-10678	-10654	-10567	-10630	MG	0.00	0.00	500.00
3584	-16179	-16178	-16112	-16113	MG	0.00	0.00	500.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	500.00
3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	500.00
3584	-16409	-16408	-16474	-16475	MG	0.00	0.00	500.00
3584	-11056	-11055	-10974	-10975	MG	0.00	0.00	500.00

3584	-10975	-10974	-10916	-10909	MG	0.00	0.00	500.00
3584	-10565	-10576	-10473	-10474	MG	0.00	0.00	500.00
3584	-10833	-10832	-10767	-10768	MG	0.00	0.00	500.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	500.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	500.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	500.00
3584	-13644	-13643	-13577	-13578	MG	0.00	0.00	500.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	500.00
3584	-13512	-13511	-13441	-13442	MG	0.00	0.00	500.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	500.00
3584	-10976	-10975	-10909	-10910	MG	0.00	0.00	500.00
3584	-12422	-12421	-12355	-12356	MG	0.00	0.00	500.00
3584	-12356	-12355	-12287	-12288	MG	0.00	0.00	500.00
3584	-16107	-16106	-16040	-16041	MG	0.00	0.00	500.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	500.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	500.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	500.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	500.00
3584	-11872	-11871	-11799	-11800	MG	0.00	0.00	500.00
3584	-12587	-12586	-12502	-12503	MG	0.00	0.00	500.00
3584	-12503	-12502	-12422	-12423	MG	0.00	0.00	500.00
3584	-12423	-12422	-12356	-12357	MG	0.00	0.00	500.00
3584	-13912	-13911	-13843	-13844	MG	0.00	0.00	500.00
3584	-12289	-12288	-12216	-12217	MG	0.00	0.00	500.00
3584	-12217	-12216	-12142	-12153	MG	0.00	0.00	500.00
3584	-13712	-13711	-13645	-13646	MG	0.00	0.00	500.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	500.00
3584	-11964	-11963	-11872	-11859	MG	0.00	0.00	500.00
3584	-13514	-13513	-13443	-13444	MG	0.00	0.00	500.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	500.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	500.00
3584	-16544	-16543	-16609	-16610	MG	0.00	0.00	500.00
3584	-11110	-11109	-11054	-11044	MG	0.00	0.00	500.00
3584	-16405	-16404	-16470	-16471	MG	0.00	0.00	500.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	500.00
3584	-10481	-10480	-10410	-10411	MG	0.00	0.00	500.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	500.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	500.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	500.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	500.00
3584	-12505	-12504	-12424	-12425	MG	0.00	0.00	500.00
3584	-12425	-12424	-12358	-12359	MG	0.00	0.00	500.00
3584	-12359	-12358	-12290	-12291	MG	0.00	0.00	500.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	500.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	500.00
3584	-12155	-12154	-12018	-12093	MG	0.00	0.00	500.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	500.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-12590	-12589	-12505	-12506	MG	0.00	0.00	500.00
3584	-12506	-12505	-12425	-12426	MG	0.00	0.00	500.00
3584	-12426	-12425	-12359	-12360	MG	0.00	0.00	500.00
3584	-16306	-16305	-16239	-16240	MG	0.00	0.00	500.00
3584	-12292	-12291	-12219	-12220	MG	0.00	0.00	500.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	500.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	500.00
3584	-12094	-12093	-11965	-11993	MG	0.00	0.00	500.00
3584	-11993	-11965	-11860	-11874	MG	0.00	0.00	500.00
3584	-11874	-11860	-11803	-11804	MG	0.00	0.00	500.00
3584	-12591	-12590	-12506	-12507	MG	0.00	0.00	500.00
3584	-12507	-12506	-12426	-12427	MG	0.00	0.00	500.00
3584	-15446	-15445	-15379	-15380	MG	0.00	0.00	500.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	500.00
3584	-16608	-16607	-16574	-16575	MG	0.00	0.00	500.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	500.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	500.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	500.00
3584	-16237	-16236	-16170	-16171	MG	0.00	0.00	500.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	500.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	500.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	500.00
3584	-16180	-16179	-16113	-16114	MG	0.00	0.00	500.00
3584	-16378	-16377	-16311	-16312	MG	0.00	0.00	500.00
3584	-10411	-10410	-10333	-10356	MG	0.00	0.00	500.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	500.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	500.00
3584	-16174	-16173	-16107	-16108	MG	0.00	0.00	500.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	500.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	500.00

3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	500.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	500.00
3584	-10968	-10967	-10903	-10904	MG	0.00	0.00	500.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	500.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	500.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	500.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	500.00
3584	-16509	-16508	-16442	-16443	MG	0.00	0.00	500.00
3584	-16508	-16507	-16441	-16442	MG	0.00	0.00	500.00
3584	-16507	-16506	-16440	-16441	MG	0.00	0.00	500.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	500.00
3584	-11046	-11045	-10968	-10969	MG	0.00	0.00	500.00
3584	-10969	-10968	-10904	-10905	MG	0.00	0.00	500.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	500.00
3584	-10828	-10827	-10761	-10762	MG	0.00	0.00	500.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	500.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	500.00
3584	-16445	-16444	-16378	-16379	MG	0.00	0.00	500.00
3584	-16444	-16443	-16377	-16378	MG	0.00	0.00	500.00
3584	-16443	-16442	-16376	-16377	MG	0.00	0.00	500.00
3584	-16442	-16441	-16375	-16376	MG	0.00	0.00	500.00
3584	-11047	-11046	-10969	-10970	MG	0.00	0.00	500.00
3584	-10970	-10969	-10905	-10906	MG	0.00	0.00	500.00
3584	-16439	-16438	-16372	-16373	MG	0.00	0.00	500.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	500.00
3584	-16412	-16411	-16477	-16478	MG	0.00	0.00	500.00
3584	-16436	-16435	-16369	-16370	MG	0.00	0.00	500.00
3584	-13580	-13579	-13513	-13514	MG	0.00	0.00	500.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	500.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	500.00
3584	-13778	-13777	-13711	-13712	MG	0.00	0.00	500.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	500.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	500.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	500.00
3584	-16374	-16373	-16307	-16308	MG	0.00	0.00	500.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	500.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	500.00
3584	-16371	-16370	-16304	-16305	MG	0.00	0.00	500.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	500.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	500.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	500.00
3584	-11048	-11037	-10971	-10972	MG	0.00	0.00	500.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	500.00
3584	-16312	-16311	-16245	-16246	MG	0.00	0.00	500.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	500.00
3584	-16309	-16308	-16242	-16243	MG	0.00	0.00	500.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	500.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	500.00
3584	-15379	-15378	-15312	-15313	MG	0.00	0.00	500.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	500.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	500.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	500.00
3584	-16303	-16302	-16236	-16237	MG	0.00	0.00	500.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	500.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	500.00
3584	-10766	-10765	-10677	-10654	MG	0.00	0.00	500.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	500.00
3584	-16044	-16043	-15977	-15978	MG	0.00	0.00	500.00
3584	-15380	-15379	-15313	-15314	MG	0.00	0.00	500.00
3584	-16609	-16608	-16575	-16576	MG	0.00	0.00	500.00
3584	-10568	-10579	-10483	-10484	MG	0.00	0.00	500.00
3584	-16240	-16239	-16173	-16174	MG	0.00	0.00	500.00
3584	-16540	-16539	-16605	-16606	MG	0.00	0.00	500.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	500.00
3584	-16440	-16439	-16373	-16374	MG	0.00	0.00	500.00
3584	-16042	-16041	-15975	-15976	MG	0.00	0.00	500.00
3584	-16182	-16181	-16115	-16116	MG	0.00	0.00	500.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	500.00
3584	-10692	-10691	-10578	-10579	MG	0.00	0.00	500.00
3584	-10579	-10578	-10482	-10483	MG	0.00	0.00	500.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	500.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	500.00
3584	-16541	-16540	-16606	-16607	MG	0.00	0.00	500.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	500.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	500.00
3584	-16171	-16170	-16104	-16105	MG	0.00	0.00	500.00
3584	-16116	-16115	-16049	-16050	MG	0.00	0.00	500.00
3584	-10578	-10630	-10481	-10482	MG	0.00	0.00	500.00
3584	-10482	-10481	-10411	-10412	MG	0.00	0.00	500.00

3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	500.00
3584	-11119	-11118	-11056	-11057	MG	0.00	0.00	500.00
3584	-11057	-11056	-10975	-10976	MG	0.00	0.00	500.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	500.00
3584	-10910	-10909	-10833	-10834	MG	0.00	0.00	500.00
3584	-16108	-16107	-16041	-16042	MG	0.00	0.00	500.00
3584	-16441	-16440	-16374	-16375	MG	0.00	0.00	500.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	500.00
3584	-16050	-16049	-15983	-15984	MG	0.00	0.00	500.00
3584	-11120	-11119	-11057	-11058	MG	0.00	0.00	500.00
3584	-11058	-11057	-10976	-10977	MG	0.00	0.00	500.00
3584	-10977	-10976	-10910	-10917	MG	0.00	0.00	500.00
3584	-16045	-16044	-15978	-15979	MG	0.00	0.00	500.00
3584	-16245	-16244	-16178	-16179	MG	0.00	0.00	500.00
3584	-10770	-10769	-10692	-10679	MG	0.00	0.00	500.00
3584	-10679	-10692	-10579	-10568	MG	0.00	0.00	500.00
3584	-16610	-16609	-16576	-16577	MG	0.00	0.00	500.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	500.00
3584	-10414	-10413	-10335	-10336	MG	0.00	0.00	500.00
3584	-13646	-13645	-13579	-13580	MG	0.00	0.00	500.00
3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	500.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-13844	-13843	-13777	-13778	MG	0.00	0.00	500.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	500.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	500.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	500.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	500.00
3584	-16375	-16374	-16308	-16309	MG	0.00	0.00	500.00
3584	-16475	-16474	-16540	-16541	MG	0.00	0.00	500.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	500.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	500.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	500.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	500.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	500.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	500.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	500.00
3584	-16538	-16537	-16603	-16604	MG	0.00	0.00	500.00
3584	-16311	-16310	-16244	-16245	MG	0.00	0.00	500.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	500.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	500.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	500.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	500.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	500.00
3584	-16504	-16503	-16437	-16438	MG	0.00	0.00	500.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	500.00
3584	-16376	-16375	-16309	-16310	MG	0.00	0.00	500.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	500.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	500.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	500.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	500.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	500.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	500.00
3584	-15384	-15383	-15317	-15318	MG	0.00	0.00	500.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	500.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	500.00
3584	-13442	-13441	-13369	-13370	MG	0.00	0.00	500.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	500.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	500.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	500.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	500.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	500.00
3584	-15383	-15382	-15316	-15317	MG	0.00	0.00	500.00
3584	-16177	-16176	-16110	-16111	MG	0.00	0.00	500.00
3584	-15101	-15162	-15161	-15100	MG	0.00	0.00	500.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	500.00
3584	-16373	-16372	-16306	-16307	MG	0.00	0.00	500.00
3584	-16372	-16371	-16305	-16306	MG	0.00	0.00	500.00
3584	-16402	-16401	-16467	-16468	MG	0.00	0.00	500.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	500.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	500.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	500.00
3584	-16512	-16511	-16445	-16446	MG	0.00	0.00	500.00
3584	-16511	-16510	-16444	-16445	MG	0.00	0.00	500.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	500.00



3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	500.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	500.00
3584	-16114	-16113	-16047	-16048	MG	0.00	0.00	500.00
3584	-16110	-16109	-16043	-16044	MG	0.00	0.00	500.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	500.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	500.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	500.00
3584	-16535	-16534	-16600	-16601	MG	0.00	0.00	500.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	500.00
3584	-16543	-16542	-16608	-16609	MG	0.00	0.00	500.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	500.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	500.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	500.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	500.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	500.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	500.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	500.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	500.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	500.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	500.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	500.00
3584	-16477	-16476	-16542	-16543	MG	0.00	0.00	500.00
3584	-16313	-16312	-16246	-16247	MG	0.00	0.00	500.00
3584	-16111	-16110	-16044	-16045	MG	0.00	0.00	500.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	500.00
3584	-16469	-16468	-16534	-16535	MG	0.00	0.00	500.00
3584	-14592	-14591	-14521	-14522	MG	0.00	0.00	500.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	500.00
3584	-16505	-16504	-16438	-16439	MG	0.00	0.00	500.00
3584	-16413	-16412	-16478	-16479	MG	0.00	0.00	500.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	500.00
3584	-16370	-16369	-16303	-16304	MG	0.00	0.00	500.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	500.00
3584	-13710	-13709	-13643	-13644	MG	0.00	0.00	500.00
3584	-15452	-15451	-15385	-15386	MG	0.00	0.00	500.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	500.00
3584	-14522	-14521	-14455	-14456	MG	0.00	0.00	500.00
3584	-16047	-16046	-15980	-15981	MG	0.00	0.00	500.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	500.00
3584	-13982	-13981	-13911	-13912	MG	0.00	0.00	500.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	500.00
3584	-13911	-13910	-13842	-13843	MG	0.00	0.00	500.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	500.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	500.00
3584	-13981	-13980	-13910	-13911	MG	0.00	0.00	500.00
3584	-16105	-16104	-16038	-16039	MG	0.00	0.00	500.00
3584	-16501	-16500	-16434	-16435	MG	0.00	0.00	500.00
3584	-16048	-16047	-15981	-15982	MG	0.00	0.00	500.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	500.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	500.00
3584	-16502	-16501	-16435	-16436	MG	0.00	0.00	500.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	500.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	500.00

**Elenco carichi elementi bidimensionali**

**Condizione di carico n. 8: Variabili impalc. (caso 4)\_tors**

**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx	Qy	Qz
						<daN/mq>	<daN/mq>	<daN/mq>
2732	-3506	-3434	-4937	-4797	MG	0.00	0.00	500.00
2732	-3434	-3490	-5079	-4937	MG	0.00	0.00	500.00
2732	-3490	-3489	-5164	-5079	MG	0.00	0.00	500.00
2732	-3650	-3506	-4797	-4390	MG	0.00	0.00	500.00
2839	-3691	-4163	-5028	-4197	MG	0.00	0.00	500.00
2949	-4163	-4390	-5490	-5028	MG	0.00	0.00	500.00
3053	-5565	-4197	-5159	-5159	MG	0.00	0.00	500.00
3053	-4197	-5028	-5565	-5565	MG	0.00	0.00	500.00
3145	-5028	-5873	-6282	-5565	MG	0.00	0.00	500.00
3145	-5028	-5490	-5873	-5873	MG	0.00	0.00	500.00
3145	-6282	-5565	-5159	-6150	MG	0.00	0.00	500.00
3146	-4390	-4797	-5969	-5490	MG	0.00	0.00	500.00
3146	-5079	-5164	-6255	-6267	MG	0.00	0.00	500.00
3146	-4937	-5079	-6267	-6149	MG	0.00	0.00	500.00
3146	-4797	-4937	-6149	-5969	MG	0.00	0.00	500.00
3251	-5490	-5969	-6504	-5873	MG	0.00	0.00	500.00
3252	-5159	-6205	-6150	-6150	MG	0.00	0.00	500.00
3352	-6150	-6205	-7191	-7191	MG	0.00	0.00	500.00
3352	-5873	-6504	-7071	-6282	MG	0.00	0.00	500.00

3352	-6205	-7192	-7191	-7191	MG	0.00	0.00	500.00
3352	-7071	-6282	-6150	-7191	MG	0.00	0.00	500.00
3353	-5969	-6149	-7161	-7016	MG	0.00	0.00	500.00
3353	-5969	-7016	-6504	-6504	MG	0.00	0.00	500.00
3353	-6149	-6267	-7238	-7161	MG	0.00	0.00	500.00
3444	-11051	-9480	-10258	-10258	MG	0.00	0.00	500.00
3445	-9385	-8509	-9049	-9564	MG	0.00	0.00	500.00
3445	-9976	-11752	-9385	-9385	MG	0.00	0.00	500.00
3445	-11752	-9385	-9564	-11751	MG	0.00	0.00	500.00
3445	-11750	-9564	-9049	-9563	MG	0.00	0.00	500.00
3445	-8887	-9976	-9385	-9385	MG	0.00	0.00	500.00
3455	-8598	3503	-10323	-10323	MG	0.00	0.00	500.00
3455	-8598	-10323	-10322	-10322	MG	0.00	0.00	500.00
3455	-9225	-9181	3503	-10324	MG	0.00	0.00	500.00
3455	-8598	3503	-9181	-9181	MG	0.00	0.00	500.00
3456	-7016	-8077	-8599	-7817	MG	0.00	0.00	500.00
3456	-9226	-9275	-10352	-10329	MG	0.00	0.00	500.00
3456	-8187	-8287	-9275	-9226	MG	0.00	0.00	500.00
3456	3504	-8599	-10330	-10330	MG	0.00	0.00	500.00
3456	3504	-8599	-9182	-9182	MG	0.00	0.00	500.00
3456	-7161	-7238	-8287	-8187	MG	0.00	0.00	500.00
3456	-7016	-7817	-7071	-6504	MG	0.00	0.00	500.00
3456	-10330	-8599	-10353	-10353	MG	0.00	0.00	500.00
3456	-7817	-7071	-7191	-8694	MG	0.00	0.00	500.00
3456	-8077	-8187	-9226	-9182	MG	0.00	0.00	500.00
3456	-8077	-9182	-8599	-8599	MG	0.00	0.00	500.00
3456	-8599	-7817	-8694	-10353	MG	0.00	0.00	500.00
3456	-9182	-9226	-10329	3504	MG	0.00	0.00	500.00
3456	-7016	-7161	-8187	-8077	MG	0.00	0.00	500.00
3458	-7192	-7784	-7191	-7191	MG	0.00	0.00	500.00
3461	-11101	-9118	-9365	-11100	MG	0.00	0.00	500.00
3464	-9123	-10208	-9571	-9571	MG	0.00	0.00	500.00
3464	-12526	-9384	-8845	-8845	MG	0.00	0.00	500.00
3467	-8583	3501	-10288	-10288	MG	0.00	0.00	500.00
3467	-9173	3501	-8583	-8583	MG	0.00	0.00	500.00
3467	-9173	-9219	-10289	3501	MG	0.00	0.00	500.00
3467	-8583	-10288	-10287	-10287	MG	0.00	0.00	500.00
3470	-10874	-9391	-9297	-13259	MG	0.00	0.00	500.00
3473	-8547	-9160	-11069	-11070	MG	0.00	0.00	500.00
3473	-9160	-9413	-11068	-11069	MG	0.00	0.00	500.00
3483	-8551	-9303	-9304	-9304	MG	0.00	0.00	500.00
3489	-10452	-8671	-9514	-11013	MG	0.00	0.00	500.00
3489	-8848	-9513	-9514	-9514	MG	0.00	0.00	500.00
3493	-11040	-8967	-9661	-11635	MG	0.00	0.00	500.00
3493	-9101	-9660	-9661	-9661	MG	0.00	0.00	500.00
3497	-9306	-9985	-9986	-9986	MG	0.00	0.00	500.00
3497	-11683	-9174	-9986	-12257	MG	0.00	0.00	500.00
3499	-9517	-10212	-10064	-10064	MG	0.00	0.00	500.00
3505	-9307	-9989	-9990	-9990	MG	0.00	0.00	500.00
3505	-11637	-9176	-9990	-12258	MG	0.00	0.00	500.00
3510	-11785	-9401	-9573	-11784	MG	0.00	0.00	500.00
3510	-11783	-11784	-9573	-8556	MG	0.00	0.00	500.00
3510	-8864	-9401	-11785	-11786	MG	0.00	0.00	500.00
3518	-9116	-9569	-12571	-12572	MG	0.00	0.00	500.00
3518	-10241	-9178	-9116	-12572	MG	0.00	0.00	500.00
3518	-12569	-12570	-9832	-8861	MG	0.00	0.00	500.00
3526	-10810	-9409	-9314	-13295	MG	0.00	0.00	500.00
3535	-8553	-9326	-9308	-9308	MG	0.00	0.00	500.00
3538	-10383	-8680	-9520	-11017	MG	0.00	0.00	500.00
3538	-8858	-9519	-9520	-9520	MG	0.00	0.00	500.00
3539	-9615	-10009	-10334	-10356	MG	0.00	0.00	500.00
3539	-10009	-10335	-10334	-10334	MG	0.00	0.00	500.00
3539	-8958	-9347	-10333	-10332	MG	0.00	0.00	500.00
3539	-9347	-9615	-10356	-10333	MG	0.00	0.00	500.00
3543	-9111	-9664	-9665	-9665	MG	0.00	0.00	500.00
3543	-11020	-8955	-9665	-11636	MG	0.00	0.00	500.00
3546	-9894	-9469	-11095	-10727	MG	0.00	0.00	500.00
3546	-10260	-9894	-10727	-10727	MG	0.00	0.00	500.00
3550	-8921	-9319	-10282	-10283	MG	0.00	0.00	500.00
3550	-9984	-10279	-10280	-10280	MG	0.00	0.00	500.00
3550	-9319	-9612	-10281	-10282	MG	0.00	0.00	500.00
3550	-9612	-9984	-10280	-10281	MG	0.00	0.00	500.00
3571	-10633	-10258	-11050	-11050	MG	0.00	0.00	500.00
3571	-11063	-10258	-10687	-11038	MG	0.00	0.00	500.00
3571	-11038	-10687	-11062	-11062	MG	0.00	0.00	500.00
3571	-10258	-11063	-11050	-11050	MG	0.00	0.00	500.00
3571	-11050	-11051	-10633	-10633	MG	0.00	0.00	500.00
3574	-11750	-11751	-9564	-9564	MG	0.00	0.00	500.00
3578	-11745	-11746	-10915	-10915	MG	0.00	0.00	500.00

3578	-9650	-10915	-11746	-11746	MG	0.00	0.00	500.00
3578	-10915	-11744	-11745	-11745	MG	0.00	0.00	500.00
3578	-11744	-10915	-11742	-11743	MG	0.00	0.00	500.00
3584	-12049	-12181	-12149	-12048	MG	0.00	0.00	500.00
3584	-14503	-14573	-14572	-14502	MG	0.00	0.00	500.00
3584	-11030	-11099	-11098	-11029	MG	0.00	0.00	500.00
3584	-14573	-14641	-14640	-14572	MG	0.00	0.00	500.00
3584	-11715	-11781	-11780	-11714	MG	0.00	0.00	500.00
3584	-11777	-11869	-11841	-11776	MG	0.00	0.00	500.00
3584	-11096	-11162	-11161	-11095	MG	0.00	0.00	500.00
3584	-11784	-11847	-11846	-11783	MG	0.00	0.00	500.00
3584	-11847	-11929	-11928	-11846	MG	0.00	0.00	500.00
3584	-11714	-11780	-11779	-11713	MG	0.00	0.00	500.00
3584	-10883	-10952	-10951	-10882	MG	0.00	0.00	500.00
3584	-10390	-10459	-10458	-10389	MG	0.00	0.00	500.00
3584	-12853	-12931	-12930	-12852	MG	0.00	0.00	500.00
3584	-12198	-12270	-12269	-12197	MG	0.00	0.00	500.00
3584	-12201	-12273	-12272	-12200	MG	0.00	0.00	500.00
3584	-11645	-11715	-11714	-11644	MG	0.00	0.00	500.00
3584	-12845	-12923	-12922	-12844	MG	0.00	0.00	500.00
3584	-12488	-12571	-12570	-12487	MG	0.00	0.00	500.00
3584	-12271	-12339	-12338	-12270	MG	0.00	0.00	500.00
3584	-11366	-11436	-11435	-11365	MG	0.00	0.00	500.00
3584	-10745	-10815	-10814	-10744	MG	0.00	0.00	500.00
3584	-11842	-11925	-11924	-11869	MG	0.00	0.00	500.00
3584	-13227	-13296	-13295	-13226	MG	0.00	0.00	500.00
3584	-13011	-13076	-13075	-13010	MG	0.00	0.00	500.00
3584	-14437	-14503	-14502	-14436	MG	0.00	0.00	500.00
3584	-11367	-11437	-11436	-11366	MG	0.00	0.00	500.00
3584	-10661	-10745	-10744	-10660	MG	0.00	0.00	500.00
3584	-13148	-13215	-13214	-13147	MG	0.00	0.00	500.00
3584	-11162	-11228	-11227	-11161	MG	0.00	0.00	500.00
3584	-12709	-12779	-12778	-12708	MG	0.00	0.00	500.00
3584	-11103	-11169	-11168	-11102	MG	0.00	0.00	500.00
3584	-10811	-10879	-10878	-10806	MG	0.00	0.00	500.00
3584	-12489	-12572	-12571	-12488	MG	0.00	0.00	500.00
3584	-11300	-11366	-11365	-11299	MG	0.00	0.00	500.00
3584	-11506	-11576	-11575	-11505	MG	0.00	0.00	500.00
3584	-11644	-11714	-11713	-11643	MG	0.00	0.00	500.00
3584	-12568	-12642	-12641	-12567	MG	0.00	0.00	500.00
3584	-12270	-12338	-12337	-12269	MG	0.00	0.00	500.00
3584	-10318	-10388	-10433	-10374	MG	0.00	0.00	500.00
3584	-16518	-16517	-16583	-16584	MG	0.00	0.00	500.00
3584	-11575	-11643	-11642	-11574	MG	0.00	0.00	500.00
3584	-10743	-10813	-10812	-10742	MG	0.00	0.00	500.00
3584	-10813	-10881	-10880	-10812	MG	0.00	0.00	500.00
3584	-12718	-12788	-12787	-12717	MG	0.00	0.00	500.00
3584	-10464	-10623	-10608	-10463	MG	0.00	0.00	500.00
3584	-12405	-12523	-12486	-12404	MG	0.00	0.00	500.00
3584	-12337	-12403	-12402	-12336	MG	0.00	0.00	500.00
3584	-15501	-15567	-15566	-15500	MG	0.00	0.00	500.00
3584	-10573	-10728	-10650	-10615	MG	0.00	0.00	500.00
3584	-11163	-11229	-11228	-11162	MG	0.00	0.00	500.00
3584	-11301	-11367	-11366	-11300	MG	0.00	0.00	500.00
3584	-13223	-13292	-13291	-13222	MG	0.00	0.00	500.00
3584	-11437	-11507	-11506	-11436	MG	0.00	0.00	500.00
3584	-12181	-12201	-12200	-12149	MG	0.00	0.00	500.00
3584	-13014	-13079	-13078	-13013	MG	0.00	0.00	500.00
3584	-12775	-12845	-12844	-12774	MG	0.00	0.00	500.00
3584	-13222	-13291	-13290	-13221	MG	0.00	0.00	500.00
3584	-10748	-10849	-10816	-10747	MG	0.00	0.00	500.00
3584	-10606	-10660	-10659	-10574	MG	0.00	0.00	500.00
3584	-11929	-12048	-12047	-11928	MG	0.00	0.00	500.00
3584	-10396	-10465	-10464	-10395	MG	0.00	0.00	500.00
3584	-12272	-12340	-12339	-12271	MG	0.00	0.00	500.00
3584	-12406	-12487	-12523	-12405	MG	0.00	0.00	500.00
3584	-11091	-11157	-11156	-11090	MG	0.00	0.00	500.00
3584	-12340	-12406	-12405	-12339	MG	0.00	0.00	500.00
3584	-10816	-10885	-10884	-10848	MG	0.00	0.00	500.00
3584	-10574	-10659	-10728	-10573	MG	0.00	0.00	500.00
3584	-11031	-11101	-11100	-11042	MG	0.00	0.00	500.00
3584	-12046	-12136	-12180	-12082	MG	0.00	0.00	500.00
3584	-12199	-12271	-12270	-12198	MG	0.00	0.00	500.00
3584	-13903	-13973	-13972	-13902	MG	0.00	0.00	500.00
3584	-12780	-12850	-12849	-12779	MG	0.00	0.00	500.00
3584	-10656	-11092	-11091	-11091	MG	0.00	0.00	500.00
3584	-10728	-10742	-10741	-10650	MG	0.00	0.00	500.00
3584	-11167	-11233	-11232	-11166	MG	0.00	0.00	500.00
3584	-11712	-11778	-11777	-11711	MG	0.00	0.00	500.00

3584	-12138	-12198	-12197	-12137	MG	0.00	0.00	500.00
3584	-11371	-11441	-11440	-11370	MG	0.00	0.00	500.00
3584	-12787	-12857	-12856	-12786	MG	0.00	0.00	500.00
3584	-10536	-10661	-10660	-10606	MG	0.00	0.00	500.00
3584	-10887	-10956	-10955	-10886	MG	0.00	0.00	500.00
3584	-11100	-11166	-11165	-11099	MG	0.00	0.00	500.00
3584	-13010	-13075	-13124	-13009	MG	0.00	0.00	500.00
3584	-10462	-10544	-10607	-10461	MG	0.00	0.00	500.00
3584	-11440	-11510	-11509	-11439	MG	0.00	0.00	500.00
3584	-10663	-10748	-10747	-10662	MG	0.00	0.00	500.00
3584	-13218	-13287	-13286	-13217	MG	0.00	0.00	500.00
3584	-12048	-12149	-12104	-12047	MG	0.00	0.00	500.00
3584	-10814	-10882	-10881	-10813	MG	0.00	0.00	500.00
3584	-11095	-11161	-11160	-11094	MG	0.00	0.00	500.00
3584	-10960	-11043	-11032	-10959	MG	0.00	0.00	500.00
3584	-10392	-10461	-10460	-10391	MG	0.00	0.00	500.00
3584	-12487	-12570	-12569	-12523	MG	0.00	0.00	500.00
3584	-11846	-11928	-11956	-11845	MG	0.00	0.00	500.00
3584	-11442	-11512	-11511	-11441	MG	0.00	0.00	500.00
3584	-12847	-12925	-12924	-12846	MG	0.00	0.00	500.00
3584	-12858	-12936	-12935	-12857	MG	0.00	0.00	500.00
3584	-12639	-12710	-12709	-12638	MG	0.00	0.00	500.00
3584	-10651	-10746	-10745	-10661	MG	0.00	0.00	500.00
3584	-11578	-11646	-11645	-11577	MG	0.00	0.00	500.00
3584	-12343	-12409	-12408	-12342	MG	0.00	0.00	500.00
3584	-11229	-11301	-11300	-11228	MG	0.00	0.00	500.00
3584	-10667	-10668	-10609	-10575	MG	0.00	0.00	500.00
3584	-13007	-13073	-13072	-13006	MG	0.00	0.00	500.00
3584	-13073	-13148	-13147	-13072	MG	0.00	0.00	500.00
3584	-11103	-11104	-11033	-11043	MG	0.00	0.00	500.00
3584	-12705	-12775	-12774	-12704	MG	0.00	0.00	500.00
3584	-11957	-11958	-11851	-11850	MG	0.00	0.00	500.00
3584	-12923	-13006	-13005	-12922	MG	0.00	0.00	500.00
3584	-13006	-13072	-13123	-13005	MG	0.00	0.00	500.00
3584	-12409	-12410	-12344	-12343	MG	0.00	0.00	500.00
3584	-16515	-16514	-16580	-16581	MG	0.00	0.00	500.00
3584	-14774	-14775	-14709	-14708	MG	0.00	0.00	500.00
3584	-14906	-14907	-14841	-14840	MG	0.00	0.00	500.00
3584	-10321	-10392	-10391	-10350	MG	0.00	0.00	500.00
3584	-10951	-11025	-11024	-10950	MG	0.00	0.00	500.00
3584	-15305	-15306	-15240	-15239	MG	0.00	0.00	500.00
3584	-12933	-13016	-13015	-12932	MG	0.00	0.00	500.00
3584	-16384	-16383	-16449	-16450	MG	0.00	0.00	500.00
3584	-10897	-10958	-10957	-10896	MG	0.00	0.00	500.00
3584	-11928	-12047	-12084	-11956	MG	0.00	0.00	500.00
3584	-11643	-11713	-11712	-11642	MG	0.00	0.00	500.00
3584	-10395	-10464	-10463	-10394	MG	0.00	0.00	500.00
3584	-13835	-13836	-13770	-13769	MG	0.00	0.00	500.00
3584	-12401	-12483	-12482	-12400	MG	0.00	0.00	500.00
3584	-10537	-10651	-10661	-10536	MG	0.00	0.00	500.00
3584	-10742	-10812	-10811	-10741	MG	0.00	0.00	500.00
3584	-10322	-10394	-10393	-10351	MG	0.00	0.00	500.00
3584	-11441	-11511	-11510	-11440	MG	0.00	0.00	500.00
3584	-11159	-11225	-11224	-11158	MG	0.00	0.00	500.00
3584	-11433	-11503	-11502	-11432	MG	0.00	0.00	500.00
3584	-11503	-11573	-11572	-11502	MG	0.00	0.00	500.00
3584	-11573	-11641	-11640	-11572	MG	0.00	0.00	500.00
3584	-12927	-13010	-13009	-12926	MG	0.00	0.00	500.00
3584	-11370	-11440	-11439	-11369	MG	0.00	0.00	500.00
3584	-11510	-11580	-11579	-11509	MG	0.00	0.00	500.00
3584	-11224	-11296	-11295	-11223	MG	0.00	0.00	500.00
3584	-11296	-11362	-11361	-11295	MG	0.00	0.00	500.00
3584	-16387	-16386	-16452	-16453	MG	0.00	0.00	500.00
3584	-10886	-10955	-10954	-10885	MG	0.00	0.00	500.00
3584	-15038	-15039	-14973	-14972	MG	0.00	0.00	500.00
3584	-11231	-11303	-11302	-11230	MG	0.00	0.00	500.00
3584	-11640	-11710	-11709	-11639	MG	0.00	0.00	500.00
3584	-10751	-10851	-10817	-10750	MG	0.00	0.00	500.00
3584	-13435	-13436	-13364	-13363	MG	0.00	0.00	500.00
3584	-11926	-12046	-12082	-11925	MG	0.00	0.00	500.00
3584	-12339	-12405	-12404	-12338	MG	0.00	0.00	500.00
3584	-11438	-11508	-11507	-11437	MG	0.00	0.00	500.00
3584	-11156	-11222	-11221	-11155	MG	0.00	0.00	500.00
3584	-11222	-11294	-11293	-11221	MG	0.00	0.00	500.00
3584	-16389	-16388	-16454	-16455	MG	0.00	0.00	500.00
3584	-11027	-11096	-11095	-11026	MG	0.00	0.00	500.00
3584	-10320	-10390	-10389	-10319	MG	0.00	0.00	500.00
3584	-10815	-10883	-10882	-10814	MG	0.00	0.00	500.00
3584	-10952	-11026	-11025	-10951	MG	0.00	0.00	500.00

3584	-11026	-11095	-11094	-11025	MG	0.00	0.00	500.00
3584	-10660	-10744	-10743	-10659	MG	0.00	0.00	500.00
3584	-16230	-16231	-16165	-16164	MG	0.00	0.00	500.00
3584	-16362	-16363	-16297	-16296	MG	0.00	0.00	500.00
3584	-15172	-15173	-15108	-15107	MG	0.00	0.00	500.00
3584	-16593	-16594	-16561	-16560	MG	0.00	0.00	500.00
3584	-10388	-10457	-10456	-10433	MG	0.00	0.00	500.00
3584	-10881	-10950	-10949	-10880	MG	0.00	0.00	500.00
3584	-12572	-12646	-12645	-12571	MG	0.00	0.00	500.00
3584	-12779	-12849	-12848	-12778	MG	0.00	0.00	500.00
3584	-10351	-10393	-10392	-10321	MG	0.00	0.00	500.00
3584	-12403	-12485	-12484	-12402	MG	0.00	0.00	500.00
3584	-12563	-12637	-12636	-12562	MG	0.00	0.00	500.00
3584	-12015	-12103	-12136	-12046	MG	0.00	0.00	500.00
3584	-11303	-11369	-11368	-11302	MG	0.00	0.00	500.00
3584	-10662	-10747	-10746	-10651	MG	0.00	0.00	500.00
3584	-10747	-10816	-10848	-10746	MG	0.00	0.00	500.00
3584	-11361	-11431	-11430	-11360	MG	0.00	0.00	500.00
3584	-11779	-11843	-11842	-11778	MG	0.00	0.00	500.00
3584	-11649	-11720	-11719	-11648	MG	0.00	0.00	500.00
3584	-12643	-12714	-12713	-12642	MG	0.00	0.00	500.00
3584	-11090	-11156	-11155	-11089	MG	0.00	0.00	500.00
3584	-11508	-11578	-11577	-11507	MG	0.00	0.00	500.00
3584	-14240	-14241	-14175	-14174	MG	0.00	0.00	500.00
3584	-14372	-14373	-14307	-14306	MG	0.00	0.00	500.00
3584	-14504	-14505	-14439	-14438	MG	0.00	0.00	500.00
3584	-14642	-14643	-14575	-14574	MG	0.00	0.00	500.00
3584	-11925	-12082	-12045	-11924	MG	0.00	0.00	500.00
3584	-10467	-10468	-10399	-10398	MG	0.00	0.00	500.00
3584	-13019	-13020	-12937	-12936	MG	0.00	0.00	500.00
3584	-10819	-10820	-10754	-10753	MG	0.00	0.00	500.00
3584	-10960	-10961	-10898	-10889	MG	0.00	0.00	500.00
3584	-12482	-12564	-12563	-12481	MG	0.00	0.00	500.00
3584	-12140	-12150	-12085	-12050	MG	0.00	0.00	500.00
3584	-12275	-12276	-12204	-12203	MG	0.00	0.00	500.00
3584	-12573	-12574	-12491	-12490	MG	0.00	0.00	500.00
3584	-11841	-11923	-11954	-11840	MG	0.00	0.00	500.00
3584	-11235	-11236	-11170	-11169	MG	0.00	0.00	500.00
3584	-11505	-11575	-11574	-11504	MG	0.00	0.00	500.00
3584	-13571	-13572	-13506	-13505	MG	0.00	0.00	500.00
3584	-13703	-13704	-13638	-13637	MG	0.00	0.00	500.00
3584	-11374	-11375	-11309	-11308	MG	0.00	0.00	500.00
3584	-12133	-12191	-12190	-12132	MG	0.00	0.00	500.00
3584	-12331	-12397	-12396	-12330	MG	0.00	0.00	500.00
3584	-11774	-11839	-11894	-11773	MG	0.00	0.00	500.00
3584	-11093	-11159	-11158	-11092	MG	0.00	0.00	500.00
3584	-12190	-12262	-12261	-12189	MG	0.00	0.00	500.00
3584	-12262	-12330	-12329	-12261	MG	0.00	0.00	500.00
3584	-11641	-11711	-11710	-11640	MG	0.00	0.00	500.00
3584	-11711	-11777	-11776	-11710	MG	0.00	0.00	500.00
3584	-12716	-12786	-12785	-12715	MG	0.00	0.00	500.00
3584	-12786	-12856	-12855	-12785	MG	0.00	0.00	500.00
3584	-12856	-12934	-12933	-12855	MG	0.00	0.00	500.00
3584	-11362	-11432	-11431	-11361	MG	0.00	0.00	500.00
3584	-11432	-11502	-11501	-11431	MG	0.00	0.00	500.00
3584	-11502	-11572	-11571	-11501	MG	0.00	0.00	500.00
3584	-11572	-11640	-11639	-11571	MG	0.00	0.00	500.00
3584	-11223	-11295	-11294	-11222	MG	0.00	0.00	500.00
3584	-15701	-15702	-15636	-15635	MG	0.00	0.00	500.00
3584	-13080	-13157	-13156	-13088	MG	0.00	0.00	500.00
3584	-13156	-13223	-13222	-13155	MG	0.00	0.00	500.00
3584	-12642	-12713	-12712	-12641	MG	0.00	0.00	500.00
3584	-12783	-12853	-12852	-12782	MG	0.00	0.00	500.00
3584	-12567	-12641	-12640	-12566	MG	0.00	0.00	500.00
3584	-16098	-16099	-16033	-16032	MG	0.00	0.00	500.00
3584	-16494	-16495	-16429	-16428	MG	0.00	0.00	500.00
3584	-13078	-13154	-13153	-13077	MG	0.00	0.00	500.00
3584	-13154	-13221	-13220	-13153	MG	0.00	0.00	500.00
3584	-13220	-13289	-13288	-13219	MG	0.00	0.00	500.00
3584	-12565	-12639	-12638	-12564	MG	0.00	0.00	500.00
3584	-11511	-11581	-11580	-11510	MG	0.00	0.00	500.00
3584	-11581	-11648	-11684	-11580	MG	0.00	0.00	500.00
3584	-11719	-11785	-11784	-11718	MG	0.00	0.00	500.00
3584	-11232	-11304	-11303	-11231	MG	0.00	0.00	500.00
3584	-13075	-13151	-13150	-13124	MG	0.00	0.00	500.00
3584	-13151	-13218	-13217	-13150	MG	0.00	0.00	500.00
3584	-11369	-11439	-11438	-11368	MG	0.00	0.00	500.00
3584	-13124	-13150	-13149	-13074	MG	0.00	0.00	500.00
3584	-13150	-13217	-13216	-13149	MG	0.00	0.00	500.00

3584	-11295	-11361	-11360	-11294	MG	0.00	0.00	500.00
3584	-11843	-11926	-11925	-11842	MG	0.00	0.00	500.00
3584	-12925	-13008	-13007	-12924	MG	0.00	0.00	500.00
3584	-13215	-13284	-13283	-13214	MG	0.00	0.00	500.00
3584	-15369	-15435	-15434	-15368	MG	0.00	0.00	500.00
3584	-15435	-15501	-15500	-15434	MG	0.00	0.00	500.00
3584	-16449	-16448	-16514	-16515	MG	0.00	0.00	500.00
3584	-15699	-15765	-15764	-15698	MG	0.00	0.00	500.00
3584	-15765	-15831	-15830	-15764	MG	0.00	0.00	500.00
3584	-15898	-15964	-15963	-15897	MG	0.00	0.00	500.00
3584	-15368	-15434	-15433	-15367	MG	0.00	0.00	500.00
3584	-15434	-15500	-15499	-15433	MG	0.00	0.00	500.00
3584	-15764	-15830	-15829	-15763	MG	0.00	0.00	500.00
3584	-15830	-15897	-15896	-15829	MG	0.00	0.00	500.00
3584	-13973	-13974	-13904	-13903	MG	0.00	0.00	500.00
3584	-15367	-15433	-15432	-15366	MG	0.00	0.00	500.00
3584	-15433	-15499	-15498	-15432	MG	0.00	0.00	500.00
3584	-15763	-15829	-15828	-15762	MG	0.00	0.00	500.00
3584	-15300	-15366	-15365	-15299	MG	0.00	0.00	500.00
3584	-15630	-15696	-15695	-15629	MG	0.00	0.00	500.00
3584	-15696	-15762	-15761	-15695	MG	0.00	0.00	500.00
3584	-15299	-15365	-15364	-15298	MG	0.00	0.00	500.00
3584	-15431	-15497	-15496	-15430	MG	0.00	0.00	500.00
3584	-15629	-15695	-15694	-15628	MG	0.00	0.00	500.00
3584	-15298	-15364	-15363	-15297	MG	0.00	0.00	500.00
3584	-15364	-15430	-15429	-15363	MG	0.00	0.00	500.00
3584	-15628	-15694	-15693	-15627	MG	0.00	0.00	500.00
3584	-15760	-15826	-15825	-15759	MG	0.00	0.00	500.00
3584	-15363	-15429	-15428	-15362	MG	0.00	0.00	500.00
3584	-15495	-15561	-15560	-15494	MG	0.00	0.00	500.00
3584	-15825	-15891	-15890	-15824	MG	0.00	0.00	500.00
3584	-15296	-15362	-15361	-15295	MG	0.00	0.00	500.00
3584	-15428	-15494	-15493	-15427	MG	0.00	0.00	500.00
3584	-15626	-15692	-15691	-15625	MG	0.00	0.00	500.00
3584	-15824	-15890	-15889	-15823	MG	0.00	0.00	500.00
3584	-15427	-15493	-15492	-15426	MG	0.00	0.00	500.00
3584	-15691	-15757	-15756	-15690	MG	0.00	0.00	500.00
3584	-15757	-15823	-15822	-15756	MG	0.00	0.00	500.00
3584	-15360	-15426	-15425	-15359	MG	0.00	0.00	500.00
3584	-12647	-12718	-12717	-12646	MG	0.00	0.00	500.00
3584	-15558	-15624	-15623	-15557	MG	0.00	0.00	500.00
3584	-12788	-12858	-12857	-12787	MG	0.00	0.00	500.00
3584	-15690	-15756	-15755	-15689	MG	0.00	0.00	500.00
3584	-12936	-13019	-13018	-12935	MG	0.00	0.00	500.00
3584	-13019	-13091	-13090	-13018	MG	0.00	0.00	500.00
3584	-13091	-13171	-13159	-13090	MG	0.00	0.00	500.00
3584	-13171	-13227	-13226	-13159	MG	0.00	0.00	500.00
3584	-15359	-15425	-15424	-15358	MG	0.00	0.00	500.00
3584	-15425	-15491	-15490	-15424	MG	0.00	0.00	500.00
3584	-12646	-12717	-12716	-12645	MG	0.00	0.00	500.00
3584	-12717	-12787	-12786	-12716	MG	0.00	0.00	500.00
3584	-15623	-15689	-15688	-15622	MG	0.00	0.00	500.00
3584	-12857	-12935	-12934	-12856	MG	0.00	0.00	500.00
3584	-12935	-13018	-13017	-12934	MG	0.00	0.00	500.00
3584	-13018	-13090	-13089	-13017	MG	0.00	0.00	500.00
3584	-13090	-13159	-13158	-13089	MG	0.00	0.00	500.00
3584	-15424	-15490	-15489	-15423	MG	0.00	0.00	500.00
3584	-10879	-10948	-10947	-10878	MG	0.00	0.00	500.00
3584	-15556	-15622	-15621	-15555	MG	0.00	0.00	500.00
3584	-11307	-11373	-11372	-11306	MG	0.00	0.00	500.00
3584	-11721	-11787	-11786	-11720	MG	0.00	0.00	500.00
3584	-13009	-13124	-13074	-13008	MG	0.00	0.00	500.00
3584	-11234	-11306	-11305	-11233	MG	0.00	0.00	500.00
3584	-15833	-15834	-15768	-15767	MG	0.00	0.00	500.00
3584	-15966	-15967	-15901	-15900	MG	0.00	0.00	500.00
3584	-14639	-14705	-14704	-14638	MG	0.00	0.00	500.00
3584	-11720	-11786	-11785	-11719	MG	0.00	0.00	500.00
3584	-11850	-11957	-11931	-11849	MG	0.00	0.00	500.00
3584	-10727	-11095	-11094	-11094	MG	0.00	0.00	500.00
3584	-14108	-14109	-14041	-14040	MG	0.00	0.00	500.00
3584	-12140	-12203	-12202	-12139	MG	0.00	0.00	500.00
3584	-12203	-12275	-12274	-12202	MG	0.00	0.00	500.00
3584	-12275	-12343	-12342	-12274	MG	0.00	0.00	500.00
3584	-12718	-12719	-12648	-12647	MG	0.00	0.00	500.00
3584	-12858	-12859	-12789	-12788	MG	0.00	0.00	500.00
3584	-11786	-11849	-11848	-11785	MG	0.00	0.00	500.00
3584	-13171	-13160	-13092	-13091	MG	0.00	0.00	500.00
3584	-13296	-13297	-13228	-13227	MG	0.00	0.00	500.00
3584	-12016	-12139	-12181	-12049	MG	0.00	0.00	500.00

3584	-12408	-12489	-12488	-12407	MG	0.00	0.00	500.00
3584	-14703	-14769	-14768	-14702	MG	0.00	0.00	500.00
3584	-10467	-10575	-10563	-10466	MG	0.00	0.00	500.00
3584	-10667	-10753	-10752	-10666	MG	0.00	0.00	500.00
3584	-10819	-10889	-10888	-10818	MG	0.00	0.00	500.00
3584	-14636	-14702	-14701	-14635	MG	0.00	0.00	500.00
3584	-11373	-11374	-11308	-11307	MG	0.00	0.00	500.00
3584	-11513	-11514	-11444	-11443	MG	0.00	0.00	500.00
3584	-11650	-11651	-11584	-11583	MG	0.00	0.00	500.00
3584	-11787	-11788	-11722	-11721	MG	0.00	0.00	500.00
3584	-10666	-10752	-10751	-10665	MG	0.00	0.00	500.00
3584	-10752	-10818	-10851	-10751	MG	0.00	0.00	500.00
3584	-10818	-10888	-10897	-10851	MG	0.00	0.00	500.00
3584	-10888	-10959	-10958	-10897	MG	0.00	0.00	500.00
3584	-11032	-11102	-11101	-11031	MG	0.00	0.00	500.00
3584	-12191	-12263	-12262	-12190	MG	0.00	0.00	500.00
3584	-12263	-12331	-12330	-12262	MG	0.00	0.00	500.00
3584	-15631	-15697	-15696	-15630	MG	0.00	0.00	500.00
3584	-11922	-12042	-12041	-11921	MG	0.00	0.00	500.00
3584	-11160	-11226	-11225	-11159	MG	0.00	0.00	500.00
3584	-11364	-11434	-11433	-11363	MG	0.00	0.00	500.00
3584	-11434	-11504	-11503	-11433	MG	0.00	0.00	500.00
3584	-11504	-11574	-11573	-11503	MG	0.00	0.00	500.00
3584	-11574	-11642	-11641	-11573	MG	0.00	0.00	500.00
3584	-11642	-11712	-11711	-11641	MG	0.00	0.00	500.00
3584	-13893	-13963	-13962	-13892	MG	0.00	0.00	500.00
3584	-13285	-13352	-13351	-13284	MG	0.00	0.00	500.00
3584	-13352	-13424	-13423	-13351	MG	0.00	0.00	500.00
3584	-11225	-11297	-11296	-11224	MG	0.00	0.00	500.00
3584	-11297	-11363	-11362	-11296	MG	0.00	0.00	500.00
3584	-11363	-11433	-11432	-11362	MG	0.00	0.00	500.00
3584	-13626	-13692	-13691	-13625	MG	0.00	0.00	500.00
3584	-13692	-13758	-13757	-13691	MG	0.00	0.00	500.00
3584	-13758	-13824	-13823	-13757	MG	0.00	0.00	500.00
3584	-13824	-13892	-13891	-13823	MG	0.00	0.00	500.00
3584	-13892	-13962	-13961	-13891	MG	0.00	0.00	500.00
3584	-11092	-11158	-11157	-11091	MG	0.00	0.00	500.00
3584	-11158	-11224	-11223	-11157	MG	0.00	0.00	500.00
3584	-13423	-13493	-13492	-13422	MG	0.00	0.00	500.00
3584	-13493	-13559	-13558	-13492	MG	0.00	0.00	500.00
3584	-13559	-13625	-13624	-13558	MG	0.00	0.00	500.00
3584	-13625	-13691	-13690	-13624	MG	0.00	0.00	500.00
3584	-13691	-13757	-13756	-13690	MG	0.00	0.00	500.00
3584	-13757	-13823	-13822	-13756	MG	0.00	0.00	500.00
3584	-13823	-13891	-13890	-13822	MG	0.00	0.00	500.00
3584	-11710	-11776	-11775	-11709	MG	0.00	0.00	500.00
3584	-13283	-13350	-13349	-13282	MG	0.00	0.00	500.00
3584	-11157	-11223	-11222	-11156	MG	0.00	0.00	500.00
3584	-13422	-13492	-13491	-13421	MG	0.00	0.00	500.00
3584	-13492	-13558	-13557	-13491	MG	0.00	0.00	500.00
3584	-13558	-13624	-13623	-13557	MG	0.00	0.00	500.00
3584	-11431	-11501	-11500	-11430	MG	0.00	0.00	500.00
3584	-11501	-11571	-11570	-11500	MG	0.00	0.00	500.00
3584	-11571	-11639	-11638	-11570	MG	0.00	0.00	500.00
3584	-11639	-11709	-11708	-11638	MG	0.00	0.00	500.00
3584	-11709	-11775	-11774	-11708	MG	0.00	0.00	500.00
3584	-13971	-14038	-14037	-13970	MG	0.00	0.00	500.00
3584	-14038	-14106	-14105	-14037	MG	0.00	0.00	500.00
3584	-14106	-14172	-14171	-14105	MG	0.00	0.00	500.00
3584	-11294	-11360	-11359	-11293	MG	0.00	0.00	500.00
3584	-11360	-11430	-11429	-11359	MG	0.00	0.00	500.00
3584	-11430	-11500	-11499	-11429	MG	0.00	0.00	500.00
3584	-11500	-11570	-11569	-11499	MG	0.00	0.00	500.00
3584	-11570	-11638	-11669	-11569	MG	0.00	0.00	500.00
3584	-11638	-11708	-11707	-11669	MG	0.00	0.00	500.00
3584	-11708	-11774	-11773	-11707	MG	0.00	0.00	500.00
3584	-11785	-11848	-11847	-11784	MG	0.00	0.00	500.00
3584	-11848	-11930	-11929	-11847	MG	0.00	0.00	500.00
3584	-11930	-12049	-12048	-11929	MG	0.00	0.00	500.00
3584	-14171	-14237	-14236	-14170	MG	0.00	0.00	500.00
3584	-14237	-14303	-14302	-14236	MG	0.00	0.00	500.00
3584	-14303	-14369	-14368	-14302	MG	0.00	0.00	500.00
3584	-12273	-12341	-12340	-12272	MG	0.00	0.00	500.00
3584	-12341	-12407	-12406	-12340	MG	0.00	0.00	500.00
3584	-12407	-12488	-12487	-12406	MG	0.00	0.00	500.00
3584	-14571	-14639	-14638	-14570	MG	0.00	0.00	500.00
3584	-13969	-14036	-14035	-13968	MG	0.00	0.00	500.00
3584	-14036	-14104	-14103	-14035	MG	0.00	0.00	500.00
3584	-14104	-14170	-14169	-14103	MG	0.00	0.00	500.00

3584	-14170	-14236	-14235	-14169	MG	0.00	0.00	500.00
3584	-12149	-12200	-12199	-12104	MG	0.00	0.00	500.00
3584	-12200	-12272	-12271	-12199	MG	0.00	0.00	500.00
3584	-14368	-14434	-14433	-14367	MG	0.00	0.00	500.00
3584	-14434	-14500	-14499	-14433	MG	0.00	0.00	500.00
3584	-14500	-14570	-14569	-14499	MG	0.00	0.00	500.00
3584	-14570	-14638	-14637	-14569	MG	0.00	0.00	500.00
3584	-11783	-11846	-11845	-11782	MG	0.00	0.00	500.00
3584	-14035	-14103	-14102	-14034	MG	0.00	0.00	500.00
3584	-14103	-14169	-14168	-14102	MG	0.00	0.00	500.00
3584	-12047	-12104	-12138	-12084	MG	0.00	0.00	500.00
3584	-12104	-12199	-12198	-12138	MG	0.00	0.00	500.00
3584	-14301	-14367	-14366	-14300	MG	0.00	0.00	500.00
3584	-14367	-14433	-14432	-14366	MG	0.00	0.00	500.00
3584	-14433	-14499	-14498	-14432	MG	0.00	0.00	500.00
3584	-14499	-14569	-14568	-14498	MG	0.00	0.00	500.00
3584	-12523	-12569	-12568	-12486	MG	0.00	0.00	500.00
3584	-11782	-11845	-11870	-11781	MG	0.00	0.00	500.00
3584	-11845	-11956	-11955	-11870	MG	0.00	0.00	500.00
3584	-11956	-12084	-12083	-11955	MG	0.00	0.00	500.00
3584	-12084	-12138	-12137	-12083	MG	0.00	0.00	500.00
3584	-14234	-14300	-14299	-14233	MG	0.00	0.00	500.00
3584	-14300	-14366	-14365	-14299	MG	0.00	0.00	500.00
3584	-14366	-14432	-14431	-14365	MG	0.00	0.00	500.00
3584	-12338	-12404	-12403	-12337	MG	0.00	0.00	500.00
3584	-12404	-12486	-12485	-12403	MG	0.00	0.00	500.00
3584	-12486	-12568	-12567	-12485	MG	0.00	0.00	500.00
3584	-11781	-11870	-11844	-11780	MG	0.00	0.00	500.00
3584	-11870	-11955	-11927	-11844	MG	0.00	0.00	500.00
3584	-11955	-12083	-12015	-11927	MG	0.00	0.00	500.00
3584	-12083	-12137	-12103	-12015	MG	0.00	0.00	500.00
3584	-12137	-12197	-12196	-12103	MG	0.00	0.00	500.00
3584	-12197	-12269	-12268	-12196	MG	0.00	0.00	500.00
3584	-12269	-12337	-12336	-12268	MG	0.00	0.00	500.00
3584	-14431	-14497	-14496	-14430	MG	0.00	0.00	500.00
3584	-14497	-14567	-14566	-14496	MG	0.00	0.00	500.00
3584	-12485	-12567	-12566	-12484	MG	0.00	0.00	500.00
3584	-11780	-11844	-11843	-11779	MG	0.00	0.00	500.00
3584	-11844	-11927	-11926	-11843	MG	0.00	0.00	500.00
3584	-11927	-12015	-12046	-11926	MG	0.00	0.00	500.00
3584	-14166	-14232	-14231	-14165	MG	0.00	0.00	500.00
3584	-12103	-12196	-12195	-12136	MG	0.00	0.00	500.00
3584	-12268	-12336	-12335	-12267	MG	0.00	0.00	500.00
3584	-15437	-15438	-15372	-15371	MG	0.00	0.00	500.00
3584	-15569	-15570	-15504	-15503	MG	0.00	0.00	500.00
3584	-12484	-12566	-12565	-12483	MG	0.00	0.00	500.00
3584	-13964	-14031	-14030	-13963	MG	0.00	0.00	500.00
3584	-14031	-14099	-14098	-14030	MG	0.00	0.00	500.00
3584	-14099	-14165	-14164	-14098	MG	0.00	0.00	500.00
3584	-14165	-14231	-14230	-14164	MG	0.00	0.00	500.00
3584	-12136	-12195	-12194	-12180	MG	0.00	0.00	500.00
3584	-12195	-12267	-12266	-12194	MG	0.00	0.00	500.00
3584	-12267	-12335	-12334	-12266	MG	0.00	0.00	500.00
3584	-12335	-12401	-12400	-12334	MG	0.00	0.00	500.00
3584	-14495	-14565	-14564	-14494	MG	0.00	0.00	500.00
3584	-12483	-12565	-12564	-12482	MG	0.00	0.00	500.00
3584	-11778	-11842	-11869	-11777	MG	0.00	0.00	500.00
3584	-14030	-14098	-14097	-14029	MG	0.00	0.00	500.00
3584	-14098	-14164	-14163	-14097	MG	0.00	0.00	500.00
3584	-12082	-12180	-12135	-12045	MG	0.00	0.00	500.00
3584	-12180	-12194	-12193	-12135	MG	0.00	0.00	500.00
3584	-12194	-12266	-12265	-12193	MG	0.00	0.00	500.00
3584	-12266	-12334	-12333	-12265	MG	0.00	0.00	500.00
3584	-12334	-12400	-12399	-12333	MG	0.00	0.00	500.00
3584	-12400	-12482	-12481	-12399	MG	0.00	0.00	500.00
3584	-14564	-14632	-14631	-14563	MG	0.00	0.00	500.00
3584	-13962	-14029	-14028	-13961	MG	0.00	0.00	500.00
3584	-11869	-11924	-11923	-11841	MG	0.00	0.00	500.00
3584	-11924	-12045	-12044	-11923	MG	0.00	0.00	500.00
3584	-10468	-10469	-10400	-10399	MG	0.00	0.00	500.00
3584	-10398	-10399	-10326	-10325	MG	0.00	0.00	500.00
3584	-10399	-10400	-10327	-10326	MG	0.00	0.00	500.00
3584	-10668	-10669	-10564	-10609	MG	0.00	0.00	500.00
3584	-10575	-10609	-10468	-10467	MG	0.00	0.00	500.00
3584	-10609	-10564	-10469	-10468	MG	0.00	0.00	500.00
3584	-10820	-10821	-10755	-10754	MG	0.00	0.00	500.00
3584	-10753	-10754	-10668	-10667	MG	0.00	0.00	500.00
3584	-10754	-10755	-10669	-10668	MG	0.00	0.00	500.00
3584	-10961	-10962	-10899	-10898	MG	0.00	0.00	500.00



3584	-10889	-10898	-10820	-10819	MG	0.00	0.00	500.00
3584	-10898	-10899	-10821	-10820	MG	0.00	0.00	500.00
3584	-11104	-11105	-11034	-11033	MG	0.00	0.00	500.00
3584	-11043	-11033	-10961	-10960	MG	0.00	0.00	500.00
3584	-11033	-11034	-10962	-10961	MG	0.00	0.00	500.00
3584	-11236	-11237	-11171	-11170	MG	0.00	0.00	500.00
3584	-11169	-11170	-11104	-11103	MG	0.00	0.00	500.00
3584	-11170	-11171	-11105	-11104	MG	0.00	0.00	500.00
3584	-14027	-14095	-14094	-14026	MG	0.00	0.00	500.00
3584	-11307	-11308	-11236	-11235	MG	0.00	0.00	500.00
3584	-11308	-11309	-11237	-11236	MG	0.00	0.00	500.00
3584	-11514	-11515	-11445	-11444	MG	0.00	0.00	500.00
3584	-11443	-11444	-11374	-11373	MG	0.00	0.00	500.00
3584	-11444	-11445	-11375	-11374	MG	0.00	0.00	500.00
3584	-11651	-11652	-11585	-11584	MG	0.00	0.00	500.00
3584	-11583	-11584	-11514	-11513	MG	0.00	0.00	500.00
3584	-11584	-11585	-11515	-11514	MG	0.00	0.00	500.00
3584	-11788	-11789	-11723	-11722	MG	0.00	0.00	500.00
3584	-11721	-11722	-11651	-11650	MG	0.00	0.00	500.00
3584	-11722	-11723	-11652	-11651	MG	0.00	0.00	500.00
3584	-11958	-11990	-11895	-11851	MG	0.00	0.00	500.00
3584	-11850	-11851	-11788	-11787	MG	0.00	0.00	500.00
3584	-11851	-11895	-11789	-11788	MG	0.00	0.00	500.00
3584	-12150	-12105	-12086	-12085	MG	0.00	0.00	500.00
3584	-12050	-12085	-11958	-11957	MG	0.00	0.00	500.00
3584	-12085	-12086	-11990	-11958	MG	0.00	0.00	500.00
3584	-12276	-12277	-12205	-12204	MG	0.00	0.00	500.00
3584	-12203	-12204	-12150	-12140	MG	0.00	0.00	500.00
3584	-12204	-12205	-12105	-12150	MG	0.00	0.00	500.00
3584	-12410	-12411	-12345	-12344	MG	0.00	0.00	500.00
3584	-12343	-12344	-12276	-12275	MG	0.00	0.00	500.00
3584	-12344	-12345	-12277	-12276	MG	0.00	0.00	500.00
3584	-12574	-12575	-12492	-12491	MG	0.00	0.00	500.00
3584	-12490	-12491	-12410	-12409	MG	0.00	0.00	500.00
3584	-12491	-12492	-12411	-12410	MG	0.00	0.00	500.00
3584	-12719	-12720	-12649	-12648	MG	0.00	0.00	500.00
3584	-12647	-12648	-12574	-12573	MG	0.00	0.00	500.00
3584	-12648	-12649	-12575	-12574	MG	0.00	0.00	500.00
3584	-12859	-12860	-12790	-12789	MG	0.00	0.00	500.00
3584	-12788	-12789	-12719	-12718	MG	0.00	0.00	500.00
3584	-12789	-12790	-12720	-12719	MG	0.00	0.00	500.00
3584	-13020	-13021	-12938	-12937	MG	0.00	0.00	500.00
3584	-12936	-12937	-12859	-12858	MG	0.00	0.00	500.00
3584	-12937	-12938	-12860	-12859	MG	0.00	0.00	500.00
3584	-13160	-13161	-13093	-13092	MG	0.00	0.00	500.00
3584	-13091	-13092	-13020	-13019	MG	0.00	0.00	500.00
3584	-13092	-13093	-13021	-13020	MG	0.00	0.00	500.00
3584	-13297	-13298	-13229	-13228	MG	0.00	0.00	500.00
3584	-13227	-13228	-13160	-13171	MG	0.00	0.00	500.00
3584	-13228	-13229	-13161	-13160	MG	0.00	0.00	500.00
3584	-13436	-13437	-13365	-13364	MG	0.00	0.00	500.00
3584	-13363	-13364	-13297	-13296	MG	0.00	0.00	500.00
3584	-13364	-13365	-13298	-13297	MG	0.00	0.00	500.00
3584	-13572	-13573	-13507	-13506	MG	0.00	0.00	500.00
3584	-13505	-13506	-13436	-13435	MG	0.00	0.00	500.00
3584	-13506	-13507	-13437	-13436	MG	0.00	0.00	500.00
3584	-13704	-13705	-13639	-13638	MG	0.00	0.00	500.00
3584	-13637	-13638	-13572	-13571	MG	0.00	0.00	500.00
3584	-13638	-13639	-13573	-13572	MG	0.00	0.00	500.00
3584	-13836	-13837	-13771	-13770	MG	0.00	0.00	500.00
3584	-13769	-13770	-13704	-13703	MG	0.00	0.00	500.00
3584	-13770	-13771	-13705	-13704	MG	0.00	0.00	500.00
3584	-13974	-13975	-13905	-13904	MG	0.00	0.00	500.00
3584	-13903	-13904	-13836	-13835	MG	0.00	0.00	500.00
3584	-13904	-13905	-13837	-13836	MG	0.00	0.00	500.00
3584	-14109	-14110	-14042	-14041	MG	0.00	0.00	500.00
3584	-14040	-14041	-13974	-13973	MG	0.00	0.00	500.00
3584	-14041	-14042	-13975	-13974	MG	0.00	0.00	500.00
3584	-14241	-14242	-14176	-14175	MG	0.00	0.00	500.00
3584	-14174	-14175	-14109	-14108	MG	0.00	0.00	500.00
3584	-14175	-14176	-14110	-14109	MG	0.00	0.00	500.00
3584	-14373	-14374	-14308	-14307	MG	0.00	0.00	500.00
3584	-14306	-14307	-14241	-14240	MG	0.00	0.00	500.00
3584	-14307	-14308	-14242	-14241	MG	0.00	0.00	500.00
3584	-14505	-14506	-14440	-14439	MG	0.00	0.00	500.00
3584	-14438	-14439	-14373	-14372	MG	0.00	0.00	500.00
3584	-14439	-14440	-14374	-14373	MG	0.00	0.00	500.00
3584	-14643	-14644	-14576	-14575	MG	0.00	0.00	500.00
3584	-14574	-14575	-14505	-14504	MG	0.00	0.00	500.00

3584	-14575	-14576	-14506	-14505	MG	0.00	0.00	500.00
3584	-14775	-14776	-14710	-14709	MG	0.00	0.00	500.00
3584	-14708	-14709	-14643	-14642	MG	0.00	0.00	500.00
3584	-14709	-14710	-14644	-14643	MG	0.00	0.00	500.00
3584	-14907	-14908	-14842	-14841	MG	0.00	0.00	500.00
3584	-14840	-14841	-14775	-14774	MG	0.00	0.00	500.00
3584	-14841	-14842	-14776	-14775	MG	0.00	0.00	500.00
3584	-15039	-15040	-14974	-14973	MG	0.00	0.00	500.00
3584	-14972	-14973	-14907	-14906	MG	0.00	0.00	500.00
3584	-14973	-14974	-14908	-14907	MG	0.00	0.00	500.00
3584	-15173	-15174	-15109	-15108	MG	0.00	0.00	500.00
3584	-15107	-15108	-15039	-15038	MG	0.00	0.00	500.00
3584	-15108	-15109	-15040	-15039	MG	0.00	0.00	500.00
3584	-15306	-15307	-15241	-15240	MG	0.00	0.00	500.00
3584	-15239	-15240	-15173	-15172	MG	0.00	0.00	500.00
3584	-15240	-15241	-15174	-15173	MG	0.00	0.00	500.00
3584	-15438	-15439	-15373	-15372	MG	0.00	0.00	500.00
3584	-15371	-15372	-15306	-15305	MG	0.00	0.00	500.00
3584	-15372	-15373	-15307	-15306	MG	0.00	0.00	500.00
3584	-15570	-15571	-15505	-15504	MG	0.00	0.00	500.00
3584	-15503	-15504	-15438	-15437	MG	0.00	0.00	500.00
3584	-15504	-15505	-15439	-15438	MG	0.00	0.00	500.00
3584	-15702	-15703	-15637	-15636	MG	0.00	0.00	500.00
3584	-15635	-15636	-15570	-15569	MG	0.00	0.00	500.00
3584	-15636	-15637	-15571	-15570	MG	0.00	0.00	500.00
3584	-15834	-15835	-15769	-15768	MG	0.00	0.00	500.00
3584	-15767	-15768	-15702	-15701	MG	0.00	0.00	500.00
3584	-15768	-15769	-15703	-15702	MG	0.00	0.00	500.00
3584	-15967	-15968	-15902	-15901	MG	0.00	0.00	500.00
3584	-15900	-15901	-15834	-15833	MG	0.00	0.00	500.00
3584	-15901	-15902	-15835	-15834	MG	0.00	0.00	500.00
3584	-16099	-16100	-16034	-16033	MG	0.00	0.00	500.00
3584	-16032	-16033	-15967	-15966	MG	0.00	0.00	500.00
3584	-16033	-16034	-15968	-15967	MG	0.00	0.00	500.00
3584	-16231	-16232	-16166	-16165	MG	0.00	0.00	500.00
3584	-16164	-16165	-16099	-16098	MG	0.00	0.00	500.00
3584	-16165	-16166	-16100	-16099	MG	0.00	0.00	500.00
3584	-16363	-16364	-16298	-16297	MG	0.00	0.00	500.00
3584	-16296	-16297	-16231	-16230	MG	0.00	0.00	500.00
3584	-16297	-16298	-16232	-16231	MG	0.00	0.00	500.00
3584	-16495	-16496	-16430	-16429	MG	0.00	0.00	500.00
3584	-16428	-16429	-16363	-16362	MG	0.00	0.00	500.00
3584	-16429	-16430	-16364	-16363	MG	0.00	0.00	500.00
3584	-16594	-16595	-16562	-16561	MG	0.00	0.00	500.00
3584	-16560	-16561	-16495	-16494	MG	0.00	0.00	500.00
3584	-16561	-16562	-16496	-16495	MG	0.00	0.00	500.00
3584	-16462	-16463	-16529	-16528	MG	0.00	0.00	500.00
3584	-16527	-16528	-16594	-16593	MG	0.00	0.00	500.00
3584	-16528	-16529	-16595	-16594	MG	0.00	0.00	500.00
3584	-12635	-12706	-12705	-12634	MG	0.00	0.00	500.00
3584	-16395	-16396	-16462	-16461	MG	0.00	0.00	500.00
3584	-16396	-16397	-16463	-16462	MG	0.00	0.00	500.00
3584	-12846	-12924	-12923	-12845	MG	0.00	0.00	500.00
3584	-12924	-13007	-13006	-12923	MG	0.00	0.00	500.00
3584	-16382	-16381	-16447	-16448	MG	0.00	0.00	500.00
3584	-16448	-16447	-16513	-16514	MG	0.00	0.00	500.00
3584	-16514	-16513	-16579	-16580	MG	0.00	0.00	500.00
3584	-16547	-16580	-16579	-16546	MG	0.00	0.00	500.00
3584	-12560	-12634	-12633	-12559	MG	0.00	0.00	500.00
3584	-12634	-12705	-12704	-12633	MG	0.00	0.00	500.00
3584	-16383	-16382	-16448	-16449	MG	0.00	0.00	500.00
3584	-13072	-13147	-13146	-13123	MG	0.00	0.00	500.00
3584	-13214	-13283	-13282	-13213	MG	0.00	0.00	500.00
3584	3503	-10396	-10395	-10323	MG	0.00	0.00	500.00
3584	-10465	-10624	-10623	-10464	MG	0.00	0.00	500.00
3584	-10624	-10665	-10652	-10623	MG	0.00	0.00	500.00
3584	-10665	-10751	-10750	-10652	MG	0.00	0.00	500.00
3584	-16450	-16449	-16515	-16516	MG	0.00	0.00	500.00
3584	-16516	-16515	-16581	-16582	MG	0.00	0.00	500.00
3584	-10323	-10395	-10394	-10322	MG	0.00	0.00	500.00
3584	-10623	-10652	-10664	-10608	MG	0.00	0.00	500.00
3584	-10652	-10750	-10749	-10664	MG	0.00	0.00	500.00
3584	-10750	-10817	-10850	-10749	MG	0.00	0.00	500.00
3584	-16385	-16384	-16450	-16451	MG	0.00	0.00	500.00
3584	-16451	-16450	-16516	-16517	MG	0.00	0.00	500.00
3584	-16517	-16516	-16582	-16583	MG	0.00	0.00	500.00
3584	-11042	-11100	-11099	-11030	MG	0.00	0.00	500.00
3584	-10394	-10463	-10462	-10393	MG	0.00	0.00	500.00
3584	-10463	-10608	-10544	-10462	MG	0.00	0.00	500.00

3584	-10608	-10664	-10663	-10544	MG	0.00	0.00	500.00
3584	-10664	-10749	-10748	-10663	MG	0.00	0.00	500.00
3584	-10749	-10850	-10849	-10748	MG	0.00	0.00	500.00
3584	-16386	-16385	-16451	-16452	MG	0.00	0.00	500.00
3584	-16452	-16451	-16517	-16518	MG	0.00	0.00	500.00
3584	-16461	-16462	-16528	-16527	MG	0.00	0.00	500.00
3584	-10393	-10462	-10461	-10392	MG	0.00	0.00	500.00
3584	-10544	-10663	-10662	-10607	MG	0.00	0.00	500.00
3584	-16453	-16452	-16518	-16519	MG	0.00	0.00	500.00
3584	-16519	-16518	-16584	-16585	MG	0.00	0.00	500.00
3584	-11029	-11098	-11097	-11028	MG	0.00	0.00	500.00
3584	-10461	-10607	-10537	-10460	MG	0.00	0.00	500.00
3584	-10607	-10662	-10651	-10537	MG	0.00	0.00	500.00
3584	-16388	-16387	-16453	-16454	MG	0.00	0.00	500.00
3584	-16454	-16453	-16519	-16520	MG	0.00	0.00	500.00
3584	-16520	-16519	-16585	-16586	MG	0.00	0.00	500.00
3584	-11028	-11097	-11096	-11027	MG	0.00	0.00	500.00
3584	-10350	-10391	-10390	-10320	MG	0.00	0.00	500.00
3584	-10391	-10460	-10459	-10390	MG	0.00	0.00	500.00
3584	-10460	-10537	-10536	-10459	MG	0.00	0.00	500.00
3584	-10746	-10848	-10815	-10745	MG	0.00	0.00	500.00
3584	-16455	-16454	-16520	-16521	MG	0.00	0.00	500.00
3584	-16521	-16520	-16586	-16587	MG	0.00	0.00	500.00
3584	-10459	-10536	-10606	-10458	MG	0.00	0.00	500.00
3584	-16390	-16389	-16455	-16456	MG	0.00	0.00	500.00
3584	-16456	-16455	-16521	-16522	MG	0.00	0.00	500.00
3584	-16522	-16521	-16587	-16588	MG	0.00	0.00	500.00
3584	-10319	-10389	-10388	-10318	MG	0.00	0.00	500.00
3584	-10389	-10458	-10457	-10388	MG	0.00	0.00	500.00
3584	-10458	-10606	-10574	-10457	MG	0.00	0.00	500.00
3584	-10744	-10814	-10813	-10743	MG	0.00	0.00	500.00
3584	-16391	-16390	-16456	-16457	MG	0.00	0.00	500.00
3584	-16457	-16456	-16522	-16523	MG	0.00	0.00	500.00
3584	-16523	-16522	-16588	-16589	MG	0.00	0.00	500.00
3584	-11025	-11094	-11093	-11024	MG	0.00	0.00	500.00
3584	-10457	-10574	-10573	-10456	MG	0.00	0.00	500.00
3584	-10659	-10743	-10742	-10728	MG	0.00	0.00	500.00
3584	-16392	-16391	-16457	-16458	MG	0.00	0.00	500.00
3584	-16458	-16457	-16523	-16524	MG	0.00	0.00	500.00
3584	-16524	-16523	-16589	-16590	MG	0.00	0.00	500.00
3584	-11024	-11093	-11092	-11041	MG	0.00	0.00	500.00
3584	-10374	-10433	-10387	-10317	MG	0.00	0.00	500.00
3584	-10433	-10456	-10455	-10387	MG	0.00	0.00	500.00
3584	-10456	-10573	-10615	-10455	MG	0.00	0.00	500.00
3584	-16393	-16392	-16458	-16459	MG	0.00	0.00	500.00
3584	-16459	-16458	-16524	-16525	MG	0.00	0.00	500.00
3584	-16525	-16524	-16590	-16591	MG	0.00	0.00	500.00
3584	-11041	-11092	-11091	-11023	MG	0.00	0.00	500.00
3584	-10317	-10387	-10386	-10316	MG	0.00	0.00	500.00
3584	-10387	-10455	-10454	-10386	MG	0.00	0.00	500.00
3584	-10455	-10615	-10535	-10454	MG	0.00	0.00	500.00
3584	-10615	-10650	-10658	-10535	MG	0.00	0.00	500.00
3584	-10650	-10741	-10740	-10658	MG	0.00	0.00	500.00
3584	-10741	-10811	-10806	-10740	MG	0.00	0.00	500.00
3584	-10948	-11023	-11022	-10947	MG	0.00	0.00	500.00
3584	-11023	-11091	-11090	-11022	MG	0.00	0.00	500.00
3584	-10316	-10386	-10385	-10349	MG	0.00	0.00	500.00
3584	-10386	-10454	-10453	-10385	MG	0.00	0.00	500.00
3584	-10454	-10535	-10629	-10453	MG	0.00	0.00	500.00
3584	-11583	-11650	-11649	-11582	MG	0.00	0.00	500.00
3584	-11650	-11721	-11720	-11649	MG	0.00	0.00	500.00
3584	-14706	-14772	-14771	-14705	MG	0.00	0.00	500.00
3584	-11102	-11168	-11167	-11101	MG	0.00	0.00	500.00
3584	-12196	-12268	-12267	-12195	MG	0.00	0.00	500.00
3584	-14904	-14970	-14969	-14903	MG	0.00	0.00	500.00
3584	-12336	-12402	-12401	-12335	MG	0.00	0.00	500.00
3584	-12402	-12484	-12483	-12401	MG	0.00	0.00	500.00
3584	-14642	-14708	-14707	-14641	MG	0.00	0.00	500.00
3584	-15303	-15369	-15368	-15302	MG	0.00	0.00	500.00
3584	-12573	-12647	-12646	-12572	MG	0.00	0.00	500.00
3584	-11101	-11167	-11166	-11100	MG	0.00	0.00	500.00
3584	-16394	-16393	-16459	-16460	MG	0.00	0.00	500.00
3584	-16460	-16459	-16525	-16526	MG	0.00	0.00	500.00
3584	-16526	-16525	-16591	-16592	MG	0.00	0.00	500.00
3584	-16395	-16394	-16460	-16461	MG	0.00	0.00	500.00
3584	-16461	-16460	-16526	-16527	MG	0.00	0.00	500.00
3584	-16527	-16526	-16592	-16593	MG	0.00	0.00	500.00
3584	-14708	-14774	-14773	-14707	MG	0.00	0.00	500.00
3584	-14774	-14840	-14839	-14773	MG	0.00	0.00	500.00

3584	-14840	-14906	-14905	-14839	MG	0.00	0.00	500.00
3584	-14906	-14972	-14971	-14905	MG	0.00	0.00	500.00
3584	-14972	-15038	-15037	-14971	MG	0.00	0.00	500.00
3584	-15038	-15107	-15106	-15037	MG	0.00	0.00	500.00
3584	-15107	-15172	-15171	-15106	MG	0.00	0.00	500.00
3584	-15172	-15239	-15238	-15171	MG	0.00	0.00	500.00
3584	-15239	-15305	-15304	-15238	MG	0.00	0.00	500.00
3584	-14641	-14707	-14706	-14640	MG	0.00	0.00	500.00
3584	-14707	-14773	-14772	-14706	MG	0.00	0.00	500.00
3584	-14773	-14839	-14838	-14772	MG	0.00	0.00	500.00
3584	-14839	-14905	-14904	-14838	MG	0.00	0.00	500.00
3584	-14905	-14971	-14970	-14904	MG	0.00	0.00	500.00
3584	-14971	-15037	-15036	-14970	MG	0.00	0.00	500.00
3584	-15037	-15106	-15094	-15036	MG	0.00	0.00	500.00
3584	-15106	-15171	-15170	-15094	MG	0.00	0.00	500.00
3584	-15171	-15238	-15237	-15170	MG	0.00	0.00	500.00
3584	-15238	-15304	-15303	-15237	MG	0.00	0.00	500.00
3584	-15966	-16032	-16031	-15965	MG	0.00	0.00	500.00
3584	-16032	-16098	-16097	-16031	MG	0.00	0.00	500.00
3584	-16098	-16164	-16163	-16097	MG	0.00	0.00	500.00
3584	-16164	-16230	-16229	-16163	MG	0.00	0.00	500.00
3584	-16230	-16296	-16295	-16229	MG	0.00	0.00	500.00
3584	-16296	-16362	-16361	-16295	MG	0.00	0.00	500.00
3584	-16362	-16428	-16427	-16361	MG	0.00	0.00	500.00
3584	-16428	-16494	-16493	-16427	MG	0.00	0.00	500.00
3584	-16494	-16560	-16559	-16493	MG	0.00	0.00	500.00
3584	-16560	-16593	-16592	-16559	MG	0.00	0.00	500.00
3584	-15965	-16031	-16030	-15964	MG	0.00	0.00	500.00
3584	-16031	-16097	-16096	-16030	MG	0.00	0.00	500.00
3584	-16097	-16163	-16162	-16096	MG	0.00	0.00	500.00
3584	-16163	-16229	-16228	-16162	MG	0.00	0.00	500.00
3584	-16229	-16295	-16294	-16228	MG	0.00	0.00	500.00
3584	-16295	-16361	-16360	-16294	MG	0.00	0.00	500.00
3584	-16361	-16427	-16426	-16360	MG	0.00	0.00	500.00
3584	-16427	-16493	-16492	-16426	MG	0.00	0.00	500.00
3584	-16493	-16559	-16558	-16492	MG	0.00	0.00	500.00
3584	-16559	-16592	-16591	-16558	MG	0.00	0.00	500.00
3584	-13296	-13363	-13362	-13295	MG	0.00	0.00	500.00
3584	-13363	-13435	-13434	-13362	MG	0.00	0.00	500.00
3584	-13435	-13505	-13504	-13434	MG	0.00	0.00	500.00
3584	-13505	-13571	-13570	-13504	MG	0.00	0.00	500.00
3584	-13571	-13637	-13636	-13570	MG	0.00	0.00	500.00
3584	-13637	-13703	-13702	-13636	MG	0.00	0.00	500.00
3584	-13703	-13769	-13768	-13702	MG	0.00	0.00	500.00
3584	-13769	-13835	-13834	-13768	MG	0.00	0.00	500.00
3584	-13835	-13903	-13902	-13834	MG	0.00	0.00	500.00
3584	-13295	-13362	-13361	-13294	MG	0.00	0.00	500.00
3584	-13362	-13434	-13433	-13361	MG	0.00	0.00	500.00
3584	-13434	-13504	-13503	-13433	MG	0.00	0.00	500.00
3584	-13504	-13570	-13569	-13503	MG	0.00	0.00	500.00
3584	-13570	-13636	-13635	-13569	MG	0.00	0.00	500.00
3584	-13636	-13702	-13701	-13635	MG	0.00	0.00	500.00
3584	-13702	-13768	-13767	-13701	MG	0.00	0.00	500.00
3584	-13768	-13834	-13833	-13767	MG	0.00	0.00	500.00
3584	-13834	-13902	-13901	-13833	MG	0.00	0.00	500.00
3584	-13902	-13972	-13971	-13901	MG	0.00	0.00	500.00
3584	-15305	-15371	-15370	-15304	MG	0.00	0.00	500.00
3584	-15371	-15437	-15436	-15370	MG	0.00	0.00	500.00
3584	-15437	-15503	-15502	-15436	MG	0.00	0.00	500.00
3584	-15503	-15569	-15568	-15502	MG	0.00	0.00	500.00
3584	-15569	-15635	-15634	-15568	MG	0.00	0.00	500.00
3584	-15635	-15701	-15700	-15634	MG	0.00	0.00	500.00
3584	-15701	-15767	-15766	-15700	MG	0.00	0.00	500.00
3584	-15767	-15833	-15832	-15766	MG	0.00	0.00	500.00
3584	-15833	-15900	-15899	-15832	MG	0.00	0.00	500.00
3584	-15900	-15966	-15965	-15899	MG	0.00	0.00	500.00
3584	-15304	-15370	-15369	-15303	MG	0.00	0.00	500.00
3584	-15370	-15436	-15435	-15369	MG	0.00	0.00	500.00
3584	-15436	-15502	-15501	-15435	MG	0.00	0.00	500.00
3584	-15502	-15568	-15567	-15501	MG	0.00	0.00	500.00
3584	-15568	-15634	-15633	-15567	MG	0.00	0.00	500.00
3584	-15634	-15700	-15699	-15633	MG	0.00	0.00	500.00
3584	-15700	-15766	-15765	-15699	MG	0.00	0.00	500.00
3584	-15766	-15832	-15831	-15765	MG	0.00	0.00	500.00
3584	-15832	-15899	-15898	-15831	MG	0.00	0.00	500.00
3584	-15899	-15965	-15964	-15898	MG	0.00	0.00	500.00
3584	-13973	-14040	-14039	-13972	MG	0.00	0.00	500.00
3584	-14040	-14108	-14107	-14039	MG	0.00	0.00	500.00
3584	-14108	-14174	-14173	-14107	MG	0.00	0.00	500.00

3584	-14174	-14240	-14239	-14173	MG	0.00	0.00	500.00
3584	-14240	-14306	-14305	-14239	MG	0.00	0.00	500.00
3584	-14306	-14372	-14371	-14305	MG	0.00	0.00	500.00
3584	-14372	-14438	-14437	-14371	MG	0.00	0.00	500.00
3584	-14438	-14504	-14503	-14437	MG	0.00	0.00	500.00
3584	-14504	-14574	-14573	-14503	MG	0.00	0.00	500.00
3584	-14574	-14642	-14641	-14573	MG	0.00	0.00	500.00
3584	-13972	-14039	-14038	-13971	MG	0.00	0.00	500.00
3584	-14039	-14107	-14106	-14038	MG	0.00	0.00	500.00
3584	-14107	-14173	-14172	-14106	MG	0.00	0.00	500.00
3584	-14173	-14239	-14238	-14172	MG	0.00	0.00	500.00
3584	-14239	-14305	-14304	-14238	MG	0.00	0.00	500.00
3584	-14305	-14371	-14370	-14304	MG	0.00	0.00	500.00
3584	-14371	-14437	-14436	-14370	MG	0.00	0.00	500.00
3584	-16283	-16349	-16348	-16282	MG	0.00	0.00	500.00
3584	-16349	-16415	-16414	-16348	MG	0.00	0.00	500.00
3584	-16415	-16481	-16480	-16414	MG	0.00	0.00	500.00
3584	-16481	-16547	-16546	-16480	MG	0.00	0.00	500.00
3584	-11577	-11645	-11644	-11576	MG	0.00	0.00	500.00
3584	-13288	-13355	-13354	-13287	MG	0.00	0.00	500.00
3584	-13355	-13427	-13426	-13354	MG	0.00	0.00	500.00
3584	-13497	-13563	-13562	-13496	MG	0.00	0.00	500.00
3584	-15567	-15633	-15632	-15566	MG	0.00	0.00	500.00
3584	-15633	-15699	-15698	-15632	MG	0.00	0.00	500.00
3584	-13895	-13965	-13964	-13894	MG	0.00	0.00	500.00
3584	-15831	-15898	-15897	-15830	MG	0.00	0.00	500.00
3584	-15302	-15368	-15367	-15301	MG	0.00	0.00	500.00
3584	-11299	-11365	-11364	-11298	MG	0.00	0.00	500.00
3584	-10851	-10897	-10896	-10817	MG	0.00	0.00	500.00
3584	-15500	-15566	-15565	-15499	MG	0.00	0.00	500.00
3584	-15566	-15632	-15631	-15565	MG	0.00	0.00	500.00
3584	-15632	-15698	-15697	-15631	MG	0.00	0.00	500.00
3584	-15698	-15764	-15763	-15697	MG	0.00	0.00	500.00
3584	-11713	-11779	-11778	-11712	MG	0.00	0.00	500.00
3584	-11094	-11160	-11159	-11093	MG	0.00	0.00	500.00
3584	-15897	-15963	-15962	-15896	MG	0.00	0.00	500.00
3584	-15301	-15367	-15366	-15300	MG	0.00	0.00	500.00
3584	-10817	-10896	-10887	-10850	MG	0.00	0.00	500.00
3584	-15499	-15565	-15564	-15498	MG	0.00	0.00	500.00
3584	-15565	-15631	-15630	-15564	MG	0.00	0.00	500.00
3584	-15697	-15763	-15762	-15696	MG	0.00	0.00	500.00
3584	-15829	-15896	-15895	-15828	MG	0.00	0.00	500.00
3584	-15896	-15962	-15961	-15895	MG	0.00	0.00	500.00
3584	-15366	-15432	-15431	-15365	MG	0.00	0.00	500.00
3584	-15432	-15498	-15497	-15431	MG	0.00	0.00	500.00
3584	-15498	-15564	-15563	-15497	MG	0.00	0.00	500.00
3584	-15564	-15630	-15629	-15563	MG	0.00	0.00	500.00
3584	-15762	-15828	-15827	-15761	MG	0.00	0.00	500.00
3584	-15828	-15895	-15894	-15827	MG	0.00	0.00	500.00
3584	-15895	-15961	-15960	-15894	MG	0.00	0.00	500.00
3584	-15365	-15431	-15430	-15364	MG	0.00	0.00	500.00
3584	-10849	-10886	-10885	-10816	MG	0.00	0.00	500.00
3584	-15497	-15563	-15562	-15496	MG	0.00	0.00	500.00
3584	-15563	-15629	-15628	-15562	MG	0.00	0.00	500.00
3584	-15695	-15761	-15760	-15694	MG	0.00	0.00	500.00
3584	-15761	-15827	-15826	-15760	MG	0.00	0.00	500.00
3584	-15827	-15894	-15893	-15826	MG	0.00	0.00	500.00
3584	-15894	-15960	-15959	-15893	MG	0.00	0.00	500.00
3584	-15430	-15496	-15495	-15429	MG	0.00	0.00	500.00
3584	-15496	-15562	-15561	-15495	MG	0.00	0.00	500.00
3584	-15562	-15628	-15627	-15561	MG	0.00	0.00	500.00
3584	-15694	-15760	-15759	-15693	MG	0.00	0.00	500.00
3584	-15826	-15893	-15892	-15825	MG	0.00	0.00	500.00
3584	-15893	-15959	-15958	-15892	MG	0.00	0.00	500.00
3584	-15297	-15363	-15362	-15296	MG	0.00	0.00	500.00
3584	-15429	-15495	-15494	-15428	MG	0.00	0.00	500.00
3584	-10884	-10953	-10952	-10883	MG	0.00	0.00	500.00
3584	-15561	-15627	-15626	-15560	MG	0.00	0.00	500.00
3584	-15627	-15693	-15692	-15626	MG	0.00	0.00	500.00
3584	-15693	-15759	-15758	-15692	MG	0.00	0.00	500.00
3584	-15759	-15825	-15824	-15758	MG	0.00	0.00	500.00
3584	-15892	-15958	-15957	-15891	MG	0.00	0.00	500.00
3584	-14105	-14171	-14170	-14104	MG	0.00	0.00	500.00
3584	-15362	-15428	-15427	-15361	MG	0.00	0.00	500.00
3584	-15494	-15560	-15559	-15493	MG	0.00	0.00	500.00
3584	-15560	-15626	-15625	-15559	MG	0.00	0.00	500.00
3584	-14435	-14501	-14500	-14434	MG	0.00	0.00	500.00
3584	-15692	-15758	-15757	-15691	MG	0.00	0.00	500.00
3584	-15758	-15824	-15823	-15757	MG	0.00	0.00	500.00

3584	-15891	-15957	-15956	-15890	MG	0.00	0.00	500.00
3584	-15295	-15361	-15360	-15294	MG	0.00	0.00	500.00
3584	-15361	-15427	-15426	-15360	MG	0.00	0.00	500.00
3584	-15493	-15559	-15558	-15492	MG	0.00	0.00	500.00
3584	-15559	-15625	-15624	-15558	MG	0.00	0.00	500.00
3584	-15625	-15691	-15690	-15624	MG	0.00	0.00	500.00
3584	-15823	-15890	-15889	-15822	MG	0.00	0.00	500.00
3584	-15890	-15956	-15955	-15889	MG	0.00	0.00	500.00
3584	-15294	-15360	-15359	-15293	MG	0.00	0.00	500.00
3584	-14169	-14235	-14234	-14168	MG	0.00	0.00	500.00
3584	-15426	-15492	-15491	-15425	MG	0.00	0.00	500.00
3584	-15492	-15558	-15557	-15491	MG	0.00	0.00	500.00
3584	-10950	-11024	-11041	-10949	MG	0.00	0.00	500.00
3584	-15624	-15690	-15689	-15623	MG	0.00	0.00	500.00
3584	-15756	-15822	-15821	-15755	MG	0.00	0.00	500.00
3584	-15822	-15889	-15888	-15821	MG	0.00	0.00	500.00
3584	-15889	-15955	-15954	-15888	MG	0.00	0.00	500.00
3584	-15293	-15359	-15358	-15292	MG	0.00	0.00	500.00
3584	-14168	-14234	-14233	-14167	MG	0.00	0.00	500.00
3584	-10812	-10880	-10879	-10811	MG	0.00	0.00	500.00
3584	-15491	-15557	-15556	-15490	MG	0.00	0.00	500.00
3584	-15557	-15623	-15622	-15556	MG	0.00	0.00	500.00
3584	-15689	-15755	-15754	-15688	MG	0.00	0.00	500.00
3584	-15755	-15821	-15820	-15754	MG	0.00	0.00	500.00
3584	-15821	-15888	-15887	-15820	MG	0.00	0.00	500.00
3584	-15888	-15954	-15953	-15887	MG	0.00	0.00	500.00
3584	-13159	-13226	-13225	-13158	MG	0.00	0.00	500.00
3584	-13226	-13295	-13294	-13225	MG	0.00	0.00	500.00
3584	-14233	-14299	-14298	-14232	MG	0.00	0.00	500.00
3584	-11169	-11235	-11234	-11168	MG	0.00	0.00	500.00
3584	-11235	-11307	-11306	-11234	MG	0.00	0.00	500.00
3584	-15622	-15688	-15687	-15621	MG	0.00	0.00	500.00
3584	-11373	-11443	-11442	-11372	MG	0.00	0.00	500.00
3584	-11443	-11513	-11512	-11442	MG	0.00	0.00	500.00
3584	-11513	-11583	-11582	-11512	MG	0.00	0.00	500.00
3584	-14640	-14706	-14705	-14639	MG	0.00	0.00	500.00
3584	-10740	-10806	-10805	-10739	MG	0.00	0.00	500.00
3584	-14772	-14838	-14837	-14771	MG	0.00	0.00	500.00
3584	-11168	-11234	-11233	-11167	MG	0.00	0.00	500.00
3584	-10947	-11022	-11021	-10946	MG	0.00	0.00	500.00
3584	-11306	-11372	-11371	-11305	MG	0.00	0.00	500.00
3584	-11372	-11442	-11441	-11371	MG	0.00	0.00	500.00
3584	-15094	-15170	-15169	-15105	MG	0.00	0.00	500.00
3584	-11512	-11582	-11581	-11511	MG	0.00	0.00	500.00
3584	-11582	-11649	-11648	-11581	MG	0.00	0.00	500.00
3584	-14705	-14771	-14770	-14704	MG	0.00	0.00	500.00
3584	-11787	-11850	-11849	-11786	MG	0.00	0.00	500.00
3584	-14837	-14903	-14902	-14836	MG	0.00	0.00	500.00
3584	-11957	-12050	-12016	-11931	MG	0.00	0.00	500.00
3584	-12050	-12140	-12139	-12016	MG	0.00	0.00	500.00
3584	-15035	-15105	-15093	-15034	MG	0.00	0.00	500.00
3584	-15236	-15302	-15301	-15235	MG	0.00	0.00	500.00
3584	-12409	-12490	-12489	-12408	MG	0.00	0.00	500.00
3584	-12490	-12573	-12572	-12489	MG	0.00	0.00	500.00
3584	-14770	-14836	-14835	-14769	MG	0.00	0.00	500.00
3584	-11849	-11931	-11930	-11848	MG	0.00	0.00	500.00
3584	-11931	-12016	-12049	-11930	MG	0.00	0.00	500.00
3584	-14968	-15034	-15033	-14967	MG	0.00	0.00	500.00
3584	-12139	-12202	-12201	-12181	MG	0.00	0.00	500.00
3584	-12202	-12274	-12273	-12201	MG	0.00	0.00	500.00
3584	-12274	-12342	-12341	-12273	MG	0.00	0.00	500.00
3584	-12342	-12408	-12407	-12341	MG	0.00	0.00	500.00
3584	-14637	-14703	-14702	-14636	MG	0.00	0.00	500.00
3584	-10325	-10398	-10397	-10324	MG	0.00	0.00	500.00
3584	-10398	-10467	-10466	-10397	MG	0.00	0.00	500.00
3584	-14901	-14967	-14966	-14900	MG	0.00	0.00	500.00
3584	-10575	-10667	-10666	-10563	MG	0.00	0.00	500.00
3584	-15033	-15104	-15132	-15032	MG	0.00	0.00	500.00
3584	-10753	-10819	-10818	-10752	MG	0.00	0.00	500.00
3584	-10889	-10960	-10959	-10888	MG	0.00	0.00	500.00
3584	-11043	-11103	-11102	-11032	MG	0.00	0.00	500.00
3584	-10324	-10397	-10396	3503	MG	0.00	0.00	500.00
3584	-10397	-10466	-10465	-10396	MG	0.00	0.00	500.00
3584	-10466	-10563	-10624	-10465	MG	0.00	0.00	500.00
3584	-10563	-10666	-10665	-10624	MG	0.00	0.00	500.00
3584	-15032	-15132	-15103	-15031	MG	0.00	0.00	500.00
3584	-10959	-11032	-11031	-10958	MG	0.00	0.00	500.00
3584	-14701	-14767	-14766	-14700	MG	0.00	0.00	500.00
3584	-14767	-14833	-14832	-14766	MG	0.00	0.00	500.00

3584	-14965	-15031	-15030	-14964	MG	0.00	0.00	500.00
3584	-14898	-14964	-14963	-14897	MG	0.00	0.00	500.00
3584	-14964	-15030	-15029	-14963	MG	0.00	0.00	500.00
3584	-15030	-15092	-15102	-15029	MG	0.00	0.00	500.00
3584	-14830	-14896	-14895	-14829	MG	0.00	0.00	500.00
3584	-14896	-14962	-14961	-14895	MG	0.00	0.00	500.00
3584	-14962	-15028	-15027	-14961	MG	0.00	0.00	500.00
3584	-15028	-15101	-15100	-15027	MG	0.00	0.00	500.00
3584	-14631	-14697	-14696	-14630	MG	0.00	0.00	500.00
3584	-14697	-14763	-14762	-14696	MG	0.00	0.00	500.00
3584	-14763	-14829	-14828	-14762	MG	0.00	0.00	500.00
3584	-14829	-14895	-14894	-14828	MG	0.00	0.00	500.00
3584	-14961	-15027	-15026	-14960	MG	0.00	0.00	500.00
3584	-15027	-15100	-15099	-15026	MG	0.00	0.00	500.00
3584	-14630	-14696	-14695	-14629	MG	0.00	0.00	500.00
3584	-14696	-14762	-14761	-14695	MG	0.00	0.00	500.00
3584	-14762	-14828	-14827	-14761	MG	0.00	0.00	500.00
3584	-14629	-14695	-14694	-14628	MG	0.00	0.00	500.00
3584	-13361	-13433	-13432	-13360	MG	0.00	0.00	500.00
3584	-13433	-13503	-13502	-13432	MG	0.00	0.00	500.00
3584	-13503	-13569	-13568	-13502	MG	0.00	0.00	500.00
3584	-13767	-13833	-13832	-13766	MG	0.00	0.00	500.00
3584	-13833	-13901	-13900	-13832	MG	0.00	0.00	500.00
3584	-13901	-13971	-13970	-13900	MG	0.00	0.00	500.00
3584	-13293	-13360	-13359	-13292	MG	0.00	0.00	500.00
3584	-13360	-13432	-13431	-13359	MG	0.00	0.00	500.00
3584	-11233	-11305	-11304	-11232	MG	0.00	0.00	500.00
3584	-11305	-11371	-11370	-11304	MG	0.00	0.00	500.00
3584	-13568	-13634	-13633	-13567	MG	0.00	0.00	500.00
3584	-13634	-13700	-13699	-13633	MG	0.00	0.00	500.00
3584	-13700	-13766	-13765	-13699	MG	0.00	0.00	500.00
3584	-13766	-13832	-13831	-13765	MG	0.00	0.00	500.00
3584	-11648	-11719	-11718	-11684	MG	0.00	0.00	500.00
3584	-13900	-13970	-13969	-13899	MG	0.00	0.00	500.00
3584	-13292	-13359	-13358	-13291	MG	0.00	0.00	500.00
3584	-11166	-11232	-11231	-11165	MG	0.00	0.00	500.00
3584	-13431	-13501	-13500	-13430	MG	0.00	0.00	500.00
3584	-11304	-11370	-11369	-11303	MG	0.00	0.00	500.00
3584	-13567	-13633	-13632	-13566	MG	0.00	0.00	500.00
3584	-13633	-13699	-13698	-13632	MG	0.00	0.00	500.00
3584	-13699	-13765	-13764	-13698	MG	0.00	0.00	500.00
3584	-11580	-11684	-11647	-11579	MG	0.00	0.00	500.00
3584	-11684	-11718	-11717	-11647	MG	0.00	0.00	500.00
3584	-11718	-11784	-11783	-11717	MG	0.00	0.00	500.00
3584	-11099	-11165	-11164	-11098	MG	0.00	0.00	500.00
3584	-11165	-11231	-11230	-11164	MG	0.00	0.00	500.00
3584	-13430	-13500	-13499	-13429	MG	0.00	0.00	500.00
3584	-13500	-13566	-13565	-13499	MG	0.00	0.00	500.00
3584	-13566	-13632	-13631	-13565	MG	0.00	0.00	500.00
3584	-11439	-11509	-11508	-11438	MG	0.00	0.00	500.00
3584	-11509	-11579	-11578	-11508	MG	0.00	0.00	500.00
3584	-11579	-11647	-11646	-11578	MG	0.00	0.00	500.00
3584	-11647	-11717	-11716	-11646	MG	0.00	0.00	500.00
3584	-11717	-11783	-11782	-11716	MG	0.00	0.00	500.00
3584	-11098	-11164	-11163	-11097	MG	0.00	0.00	500.00
3584	-11164	-11230	-11229	-11163	MG	0.00	0.00	500.00
3584	-11230	-11302	-11301	-11229	MG	0.00	0.00	500.00
3584	-11302	-11368	-11367	-11301	MG	0.00	0.00	500.00
3584	-11368	-11438	-11437	-11367	MG	0.00	0.00	500.00
3584	-13631	-13697	-13696	-13630	MG	0.00	0.00	500.00
3584	-13697	-13763	-13762	-13696	MG	0.00	0.00	500.00
3584	-13763	-13829	-13828	-13762	MG	0.00	0.00	500.00
3584	-11646	-11716	-11715	-11645	MG	0.00	0.00	500.00
3584	-11716	-11782	-11781	-11715	MG	0.00	0.00	500.00
3584	-11097	-11163	-11162	-11096	MG	0.00	0.00	500.00
3584	-13356	-13428	-13427	-13355	MG	0.00	0.00	500.00
3584	-13428	-13498	-13497	-13427	MG	0.00	0.00	500.00
3584	-13498	-13564	-13563	-13497	MG	0.00	0.00	500.00
3584	-13564	-13630	-13629	-13563	MG	0.00	0.00	500.00
3584	-13630	-13696	-13695	-13629	MG	0.00	0.00	500.00
3584	-11507	-11577	-11576	-11506	MG	0.00	0.00	500.00
3584	-13828	-13896	-13895	-13827	MG	0.00	0.00	500.00
3584	-13896	-13966	-13965	-13895	MG	0.00	0.00	500.00
3584	-11228	-11300	-11299	-11227	MG	0.00	0.00	500.00
3584	-13563	-13629	-13628	-13562	MG	0.00	0.00	500.00
3584	-11436	-11506	-11505	-11435	MG	0.00	0.00	500.00
3584	-13695	-13761	-13760	-13694	MG	0.00	0.00	500.00
3584	-11576	-11644	-11643	-11575	MG	0.00	0.00	500.00
3584	-13827	-13895	-13894	-13826	MG	0.00	0.00	500.00

3584	-13287	-13354	-13353	-13286	MG	0.00	0.00	500.00
3584	-11161	-11227	-11226	-11160	MG	0.00	0.00	500.00
3584	-11227	-11299	-11298	-11226	MG	0.00	0.00	500.00
3584	-11365	-11435	-11434	-11364	MG	0.00	0.00	500.00
3584	-11435	-11505	-11504	-11434	MG	0.00	0.00	500.00
3584	-13694	-13760	-13759	-13693	MG	0.00	0.00	500.00
3584	-13760	-13826	-13825	-13759	MG	0.00	0.00	500.00
3584	-13826	-13894	-13893	-13825	MG	0.00	0.00	500.00
3584	-13353	-13425	-13424	-13352	MG	0.00	0.00	500.00
3584	-11226	-11298	-11297	-11225	MG	0.00	0.00	500.00
3584	-11298	-11364	-11363	-11297	MG	0.00	0.00	500.00
3584	-13561	-13627	-13626	-13560	MG	0.00	0.00	500.00
3584	-13627	-13693	-13692	-13626	MG	0.00	0.00	500.00
3584	-13693	-13759	-13758	-13692	MG	0.00	0.00	500.00
3584	-13759	-13825	-13824	-13758	MG	0.00	0.00	500.00
3584	-13825	-13893	-13892	-13824	MG	0.00	0.00	500.00
3584	-15964	-16030	-16029	-15963	MG	0.00	0.00	500.00
3584	-13424	-13494	-13493	-13423	MG	0.00	0.00	500.00
3584	-13494	-13560	-13559	-13493	MG	0.00	0.00	500.00
3584	-13560	-13626	-13625	-13559	MG	0.00	0.00	500.00
3584	-12396	-12521	-12479	-12395	MG	0.00	0.00	500.00
3584	-12521	-12560	-12559	-12479	MG	0.00	0.00	500.00
3584	-13284	-13351	-13350	-13283	MG	0.00	0.00	500.00
3584	-13351	-13423	-13422	-13350	MG	0.00	0.00	500.00
3584	-16161	-16227	-16226	-16160	MG	0.00	0.00	500.00
3584	-13891	-13961	-13960	-13890	MG	0.00	0.00	500.00
3584	-13350	-13422	-13421	-13349	MG	0.00	0.00	500.00
3584	-12785	-12855	-12854	-12784	MG	0.00	0.00	500.00
3584	-12855	-12933	-12932	-12854	MG	0.00	0.00	500.00
3584	-13624	-13690	-13689	-13623	MG	0.00	0.00	500.00
3584	-13690	-13756	-13755	-13689	MG	0.00	0.00	500.00
3584	-13756	-13822	-13821	-13755	MG	0.00	0.00	500.00
3584	-13822	-13890	-13889	-13821	MG	0.00	0.00	500.00
3584	-13890	-13960	-13959	-13889	MG	0.00	0.00	500.00
3584	-14172	-14238	-14237	-14171	MG	0.00	0.00	500.00
3584	-14238	-14304	-14303	-14237	MG	0.00	0.00	500.00
3584	-14304	-14370	-14369	-14303	MG	0.00	0.00	500.00
3584	-14370	-14436	-14435	-14369	MG	0.00	0.00	500.00
3584	-14436	-14502	-14501	-14435	MG	0.00	0.00	500.00
3584	-14502	-14572	-14571	-14501	MG	0.00	0.00	500.00
3584	-14572	-14640	-14639	-14571	MG	0.00	0.00	500.00
3584	-13970	-14037	-14036	-13969	MG	0.00	0.00	500.00
3584	-14037	-14105	-14104	-14036	MG	0.00	0.00	500.00
3584	-16158	-16224	-16223	-16157	MG	0.00	0.00	500.00
3584	-16224	-16290	-16289	-16223	MG	0.00	0.00	500.00
3584	-12931	-13014	-13013	-12930	MG	0.00	0.00	500.00
3584	-14369	-14435	-14434	-14368	MG	0.00	0.00	500.00
3584	-14501	-14571	-14570	-14500	MG	0.00	0.00	500.00
3584	-14236	-14302	-14301	-14235	MG	0.00	0.00	500.00
3584	-14302	-14368	-14367	-14301	MG	0.00	0.00	500.00
3584	-13221	-13290	-13289	-13220	MG	0.00	0.00	500.00
3584	-12566	-12640	-12639	-12565	MG	0.00	0.00	500.00
3584	-13968	-14035	-14034	-13967	MG	0.00	0.00	500.00
3584	-12711	-12781	-12780	-12710	MG	0.00	0.00	500.00
3584	-12851	-12929	-12928	-12850	MG	0.00	0.00	500.00
3584	-14235	-14301	-14300	-14234	MG	0.00	0.00	500.00
3584	-14569	-14637	-14636	-14568	MG	0.00	0.00	500.00
3584	-13967	-14034	-14033	-13966	MG	0.00	0.00	500.00
3584	-14034	-14102	-14101	-14033	MG	0.00	0.00	500.00
3584	-14102	-14168	-14167	-14101	MG	0.00	0.00	500.00
3584	-12850	-12928	-12927	-12849	MG	0.00	0.00	500.00
3584	-10880	-10949	-10948	-10879	MG	0.00	0.00	500.00
3584	-10949	-11041	-11023	-10948	MG	0.00	0.00	500.00
3584	-14432	-14498	-14497	-14431	MG	0.00	0.00	500.00
3584	-14498	-14568	-14567	-14497	MG	0.00	0.00	500.00
3584	-14568	-14636	-14635	-14567	MG	0.00	0.00	500.00
3584	-13966	-14033	-14032	-13965	MG	0.00	0.00	500.00
3584	-14033	-14101	-14100	-14032	MG	0.00	0.00	500.00
3584	-14101	-14167	-14166	-14100	MG	0.00	0.00	500.00
3584	-14167	-14233	-14232	-14166	MG	0.00	0.00	500.00
3584	-16286	-16352	-16351	-16285	MG	0.00	0.00	500.00
3584	-14299	-14365	-14364	-14298	MG	0.00	0.00	500.00
3584	-14365	-14431	-14430	-14364	MG	0.00	0.00	500.00
3584	-14567	-14635	-14634	-14566	MG	0.00	0.00	500.00
3584	-13965	-14032	-14031	-13964	MG	0.00	0.00	500.00
3584	-14032	-14100	-14099	-14031	MG	0.00	0.00	500.00
3584	-14100	-14166	-14165	-14099	MG	0.00	0.00	500.00
3584	-14232	-14298	-14297	-14231	MG	0.00	0.00	500.00
3584	-14298	-14364	-14363	-14297	MG	0.00	0.00	500.00



3584	-14364	-14430	-14429	-14363	MG	0.00	0.00	500.00
3584	-14430	-14496	-14495	-14429	MG	0.00	0.00	500.00
3584	-14496	-14566	-14565	-14495	MG	0.00	0.00	500.00
3584	-14566	-14634	-14633	-14565	MG	0.00	0.00	500.00
3584	-14231	-14297	-14296	-14230	MG	0.00	0.00	500.00
3584	-14297	-14363	-14362	-14296	MG	0.00	0.00	500.00
3584	-14363	-14429	-14428	-14362	MG	0.00	0.00	500.00
3584	-14429	-14495	-14494	-14428	MG	0.00	0.00	500.00
3584	-14565	-14633	-14632	-14564	MG	0.00	0.00	500.00
3584	-13963	-14030	-14029	-13962	MG	0.00	0.00	500.00
3584	-14164	-14230	-14229	-14163	MG	0.00	0.00	500.00
3584	-14230	-14296	-14295	-14229	MG	0.00	0.00	500.00
3584	-14296	-14362	-14361	-14295	MG	0.00	0.00	500.00
3584	-14362	-14428	-14427	-14361	MG	0.00	0.00	500.00
3584	-14428	-14494	-14493	-14427	MG	0.00	0.00	500.00
3584	-14494	-14564	-14563	-14493	MG	0.00	0.00	500.00
3584	-14029	-14097	-14096	-14028	MG	0.00	0.00	500.00
3584	-14097	-14163	-14162	-14096	MG	0.00	0.00	500.00
3584	-12045	-12135	-12134	-12044	MG	0.00	0.00	500.00
3584	-12135	-12193	-12192	-12134	MG	0.00	0.00	500.00
3584	-12193	-12265	-12264	-12192	MG	0.00	0.00	500.00
3584	-12265	-12333	-12332	-12264	MG	0.00	0.00	500.00
3584	-12333	-12399	-12398	-12332	MG	0.00	0.00	500.00
3584	-12399	-12481	-12480	-12398	MG	0.00	0.00	500.00
3584	-12481	-12563	-12562	-12480	MG	0.00	0.00	500.00
3584	-11776	-11841	-11840	-11775	MG	0.00	0.00	500.00
3584	-14028	-14096	-14095	-14027	MG	0.00	0.00	500.00
3584	-11923	-12044	-12043	-11954	MG	0.00	0.00	500.00
3584	-12044	-12134	-12133	-12043	MG	0.00	0.00	500.00
3584	-12134	-12192	-12191	-12133	MG	0.00	0.00	500.00
3584	-12192	-12264	-12263	-12191	MG	0.00	0.00	500.00
3584	-12264	-12332	-12331	-12263	MG	0.00	0.00	500.00
3584	-12332	-12398	-12397	-12331	MG	0.00	0.00	500.00
3584	-12398	-12480	-12522	-12397	MG	0.00	0.00	500.00
3584	-12480	-12562	-12561	-12522	MG	0.00	0.00	500.00
3584	-11775	-11840	-11839	-11774	MG	0.00	0.00	500.00
3584	-11840	-11954	-11922	-11839	MG	0.00	0.00	500.00
3584	-11954	-12043	-12042	-11922	MG	0.00	0.00	500.00
3584	-12043	-12133	-12132	-12042	MG	0.00	0.00	500.00
3584	-14227	-14293	-14292	-14226	MG	0.00	0.00	500.00
3584	-14293	-14359	-14358	-14292	MG	0.00	0.00	500.00
3584	-14359	-14425	-14424	-14358	MG	0.00	0.00	500.00
3584	-14425	-14491	-14490	-14424	MG	0.00	0.00	500.00
3584	-12397	-12522	-12521	-12396	MG	0.00	0.00	500.00
3584	-12522	-12561	-12560	-12521	MG	0.00	0.00	500.00
3584	-11839	-11922	-11921	-11894	MG	0.00	0.00	500.00
3584	-16096	-16162	-16161	-16095	MG	0.00	0.00	500.00
3584	-12042	-12132	-12148	-12041	MG	0.00	0.00	500.00
3584	-12132	-12190	-12189	-12148	MG	0.00	0.00	500.00
3584	-16294	-16360	-16359	-16293	MG	0.00	0.00	500.00
3584	-16360	-16426	-16425	-16359	MG	0.00	0.00	500.00
3584	-12330	-12396	-12395	-12329	MG	0.00	0.00	500.00
3584	-12571	-12645	-12644	-12570	MG	0.00	0.00	500.00
3584	-12645	-12716	-12715	-12644	MG	0.00	0.00	500.00
3584	-16095	-16161	-16160	-16094	MG	0.00	0.00	500.00
3584	-16227	-16293	-16292	-16226	MG	0.00	0.00	500.00
3584	-12934	-13017	-13016	-12933	MG	0.00	0.00	500.00
3584	-13017	-13089	-13080	-13016	MG	0.00	0.00	500.00
3584	-13089	-13158	-13157	-13080	MG	0.00	0.00	500.00
3584	-13158	-13225	-13224	-13157	MG	0.00	0.00	500.00
3584	-13225	-13294	-13293	-13224	MG	0.00	0.00	500.00
3584	-12570	-12644	-12643	-12569	MG	0.00	0.00	500.00
3584	-12644	-12715	-12714	-12643	MG	0.00	0.00	500.00
3584	-12715	-12785	-12784	-12714	MG	0.00	0.00	500.00
3584	-16292	-16358	-16357	-16291	MG	0.00	0.00	500.00
3584	-13016	-13080	-13088	-13015	MG	0.00	0.00	500.00
3584	-16424	-16490	-16489	-16423	MG	0.00	0.00	500.00
3584	-13157	-13224	-13223	-13156	MG	0.00	0.00	500.00
3584	-13224	-13293	-13292	-13223	MG	0.00	0.00	500.00
3584	-12569	-12643	-12642	-12568	MG	0.00	0.00	500.00
3584	-16027	-16093	-16092	-16026	MG	0.00	0.00	500.00
3584	-12714	-12784	-12783	-12713	MG	0.00	0.00	500.00
3584	-12784	-12854	-12853	-12783	MG	0.00	0.00	500.00
3584	-12854	-12932	-12931	-12853	MG	0.00	0.00	500.00
3584	-12932	-13015	-13014	-12931	MG	0.00	0.00	500.00
3584	-13015	-13088	-13079	-13014	MG	0.00	0.00	500.00
3584	-13088	-13156	-13155	-13079	MG	0.00	0.00	500.00
3584	-16489	-16555	-16554	-16488	MG	0.00	0.00	500.00
3584	-16555	-16588	-16587	-16554	MG	0.00	0.00	500.00

3584	-15960	-16026	-16025	-15959	MG	0.00	0.00	500.00
3584	-16026	-16092	-16091	-16025	MG	0.00	0.00	500.00
3584	-12713	-12783	-12782	-12712	MG	0.00	0.00	500.00
3584	-16356	-16422	-16421	-16355	MG	0.00	0.00	500.00
3584	-13079	-13155	-13154	-13078	MG	0.00	0.00	500.00
3584	-13155	-13222	-13221	-13154	MG	0.00	0.00	500.00
3584	-16554	-16587	-16586	-16553	MG	0.00	0.00	500.00
3584	-15959	-16025	-16024	-15958	MG	0.00	0.00	500.00
3584	-12641	-12712	-12711	-12640	MG	0.00	0.00	500.00
3584	-12712	-12782	-12781	-12711	MG	0.00	0.00	500.00
3584	-12782	-12852	-12851	-12781	MG	0.00	0.00	500.00
3584	-12852	-12930	-12929	-12851	MG	0.00	0.00	500.00
3584	-12930	-13013	-13012	-12929	MG	0.00	0.00	500.00
3584	-13013	-13078	-13077	-13012	MG	0.00	0.00	500.00
3584	-16421	-16487	-16486	-16420	MG	0.00	0.00	500.00
3584	-16487	-16553	-16552	-16486	MG	0.00	0.00	500.00
3584	-12640	-12711	-12710	-12639	MG	0.00	0.00	500.00
3584	-12781	-12851	-12850	-12780	MG	0.00	0.00	500.00
3584	-12929	-13012	-13011	-12928	MG	0.00	0.00	500.00
3584	-13012	-13077	-13076	-13011	MG	0.00	0.00	500.00
3584	-13077	-13153	-13152	-13076	MG	0.00	0.00	500.00
3584	-13153	-13220	-13219	-13152	MG	0.00	0.00	500.00
3584	-16552	-16585	-16584	-16551	MG	0.00	0.00	500.00
3584	-15957	-16023	-16022	-15956	MG	0.00	0.00	500.00
3584	-16023	-16089	-16088	-16022	MG	0.00	0.00	500.00
3584	-12710	-12780	-12779	-12709	MG	0.00	0.00	500.00
3584	-16155	-16221	-16220	-16154	MG	0.00	0.00	500.00
3584	-12928	-13011	-13010	-12927	MG	0.00	0.00	500.00
3584	-16353	-16419	-16418	-16352	MG	0.00	0.00	500.00
3584	-13076	-13152	-13151	-13075	MG	0.00	0.00	500.00
3584	-13152	-13219	-13218	-13151	MG	0.00	0.00	500.00
3584	-13219	-13288	-13287	-13218	MG	0.00	0.00	500.00
3584	-12564	-12638	-12637	-12563	MG	0.00	0.00	500.00
3584	-12638	-12709	-12708	-12637	MG	0.00	0.00	500.00
3584	-16088	-16154	-16153	-16087	MG	0.00	0.00	500.00
3584	-16154	-16220	-16219	-16153	MG	0.00	0.00	500.00
3584	-12849	-12927	-12926	-12848	MG	0.00	0.00	500.00
3584	-16352	-16418	-16417	-16351	MG	0.00	0.00	500.00
3584	-16418	-16484	-16483	-16417	MG	0.00	0.00	500.00
3584	-16484	-16550	-16549	-16483	MG	0.00	0.00	500.00
3584	-16550	-16583	-16582	-16549	MG	0.00	0.00	500.00
3584	-15955	-16021	-16020	-15954	MG	0.00	0.00	500.00
3584	-12637	-12708	-12707	-12636	MG	0.00	0.00	500.00
3584	-12708	-12778	-12777	-12707	MG	0.00	0.00	500.00
3584	-12778	-12848	-12847	-12777	MG	0.00	0.00	500.00
3584	-12848	-12926	-12925	-12847	MG	0.00	0.00	500.00
3584	-12926	-13009	-13008	-12925	MG	0.00	0.00	500.00
3584	-16351	-16417	-16416	-16350	MG	0.00	0.00	500.00
3584	-16417	-16483	-16482	-16416	MG	0.00	0.00	500.00
3584	-16483	-16549	-16548	-16482	MG	0.00	0.00	500.00
3584	-13217	-13286	-13285	-13216	MG	0.00	0.00	500.00
3584	-12562	-12636	-12635	-12561	MG	0.00	0.00	500.00
3584	-12636	-12707	-12706	-12635	MG	0.00	0.00	500.00
3584	-12707	-12777	-12776	-12706	MG	0.00	0.00	500.00
3584	-12777	-12847	-12846	-12776	MG	0.00	0.00	500.00
3584	-16218	-16284	-16283	-16217	MG	0.00	0.00	500.00
3584	-16284	-16350	-16349	-16283	MG	0.00	0.00	500.00
3584	-13008	-13074	-13073	-13007	MG	0.00	0.00	500.00
3584	-13074	-13149	-13148	-13073	MG	0.00	0.00	500.00
3584	-13149	-13216	-13215	-13148	MG	0.00	0.00	500.00
3584	-13216	-13285	-13284	-13215	MG	0.00	0.00	500.00
3584	-12561	-12635	-12634	-12560	MG	0.00	0.00	500.00
3584	-16019	-16085	-16084	-16018	MG	0.00	0.00	500.00
3584	-12706	-12776	-12775	-12705	MG	0.00	0.00	500.00
3584	-12776	-12846	-12845	-12775	MG	0.00	0.00	500.00
3584	-16217	-16283	-16282	-16216	MG	0.00	0.00	500.00
3584	-13762	-13828	-13827	-13761	MG	0.00	0.00	500.00
3584	-13147	-13214	-13213	-13146	MG	0.00	0.00	500.00
3584	-13496	-13562	-13561	-13495	MG	0.00	0.00	500.00
3584	-10958	-11031	-11042	-10957	MG	0.00	0.00	500.00
3584	-13894	-13964	-13963	-13893	MG	0.00	0.00	500.00
3584	-13286	-13353	-13352	-13285	MG	0.00	0.00	500.00
3584	-10896	-10957	-10956	-10887	MG	0.00	0.00	500.00
3584	-10957	-11042	-11030	-10956	MG	0.00	0.00	500.00
3584	-10850	-10887	-10886	-10849	MG	0.00	0.00	500.00
3584	-10956	-11030	-11029	-10955	MG	0.00	0.00	500.00
3584	-10955	-11029	-11028	-10954	MG	0.00	0.00	500.00
3584	-10885	-10954	-10953	-10884	MG	0.00	0.00	500.00
3584	-10954	-11028	-11027	-10953	MG	0.00	0.00	500.00

3584	-10848	-10884	-10883	-10815	MG	0.00	0.00	500.00
3584	-10953	-11027	-11026	-10952	MG	0.00	0.00	500.00
3584	-10882	-10951	-10950	-10881	MG	0.00	0.00	500.00
3584	-16553	-16586	-16585	-16552	MG	0.00	0.00	500.00
3584	-15490	-15556	-15555	-15489	MG	0.00	0.00	500.00
3584	-15688	-15754	-15753	-15687	MG	0.00	0.00	500.00
3584	-10535	-10658	-10657	-10629	MG	0.00	0.00	500.00
3584	-10658	-10740	-10739	-10657	MG	0.00	0.00	500.00
3584	-10806	-10878	-10877	-10805	MG	0.00	0.00	500.00
3584	-10878	-10947	-10946	-10877	MG	0.00	0.00	500.00
3584	-11022	-11090	-11089	-11021	MG	0.00	0.00	500.00
3584	-15165	-15232	-15231	-15164	MG	0.00	0.00	500.00
3584	-16162	-16228	-16227	-16161	MG	0.00	0.00	500.00
3584	-16492	-16558	-16557	-16491	MG	0.00	0.00	500.00
3584	-15092	-15164	-15163	-15102	MG	0.00	0.00	500.00
3584	-14699	-14765	-14764	-14698	MG	0.00	0.00	500.00
3584	-14698	-14764	-14763	-14697	MG	0.00	0.00	500.00
3584	-14764	-14830	-14829	-14763	MG	0.00	0.00	500.00
3584	-14828	-14894	-14893	-14827	MG	0.00	0.00	500.00
3584	-15091	-15159	-15158	-15090	MG	0.00	0.00	500.00
3584	-15159	-15226	-15225	-15158	MG	0.00	0.00	500.00
3584	-13294	-13361	-13360	-13293	MG	0.00	0.00	500.00
3584	-16222	-16288	-16287	-16221	MG	0.00	0.00	500.00
3584	-16420	-16486	-16485	-16419	MG	0.00	0.00	500.00
3584	-13432	-13502	-13501	-13431	MG	0.00	0.00	500.00
3584	-13501	-13567	-13566	-13500	MG	0.00	0.00	500.00
3584	-13696	-13762	-13761	-13695	MG	0.00	0.00	500.00
3584	-15093	-15168	-15167	-15104	MG	0.00	0.00	500.00
3584	-15235	-15301	-15300	-15234	MG	0.00	0.00	500.00
3584	-13427	-13497	-13496	-13426	MG	0.00	0.00	500.00
3584	-14769	-14835	-14834	-14768	MG	0.00	0.00	500.00
3584	-13629	-13695	-13694	-13628	MG	0.00	0.00	500.00
3584	-15167	-15234	-15233	-15166	MG	0.00	0.00	500.00
3584	-13354	-13426	-13425	-13353	MG	0.00	0.00	500.00
3584	-13562	-13628	-13627	-13561	MG	0.00	0.00	500.00
3584	-14492	-14562	-14561	-14491	MG	0.00	0.00	500.00
3584	-13495	-13561	-13560	-13494	MG	0.00	0.00	500.00
3584	-15031	-15103	-15092	-15030	MG	0.00	0.00	500.00
3584	-15103	-15165	-15164	-15092	MG	0.00	0.00	500.00
3584	-13502	-13568	-13567	-13501	MG	0.00	0.00	500.00
3584	-15232	-15298	-15297	-15231	MG	0.00	0.00	500.00
3584	-14634	-14700	-14699	-14633	MG	0.00	0.00	500.00
3584	-14700	-14766	-14765	-14699	MG	0.00	0.00	500.00
3584	-16228	-16294	-16293	-16227	MG	0.00	0.00	500.00
3584	-15292	-15358	-15357	-15291	MG	0.00	0.00	500.00
3584	-16558	-16591	-16590	-16557	MG	0.00	0.00	500.00
3584	-16029	-16095	-16094	-16028	MG	0.00	0.00	500.00
3584	-14765	-14831	-14830	-14764	MG	0.00	0.00	500.00
3584	-14831	-14897	-14896	-14830	MG	0.00	0.00	500.00
3584	-15029	-15102	-15101	-15028	MG	0.00	0.00	500.00
3584	-15102	-15163	-15162	-15101	MG	0.00	0.00	500.00
3584	-15163	-15230	-15229	-15162	MG	0.00	0.00	500.00
3584	-15230	-15296	-15295	-15229	MG	0.00	0.00	500.00
3584	-16160	-16226	-16225	-16159	MG	0.00	0.00	500.00
3584	-16226	-16292	-16291	-16225	MG	0.00	0.00	500.00
3584	-16093	-16159	-16158	-16092	MG	0.00	0.00	500.00
3584	-16159	-16225	-16224	-16158	MG	0.00	0.00	500.00
3584	-16225	-16291	-16290	-16224	MG	0.00	0.00	500.00
3584	-15161	-15228	-15227	-15160	MG	0.00	0.00	500.00
3584	-15228	-15294	-15293	-15227	MG	0.00	0.00	500.00
3584	-16092	-16158	-16157	-16091	MG	0.00	0.00	500.00
3584	-15034	-15093	-15104	-15033	MG	0.00	0.00	500.00
3584	-16290	-16356	-16355	-16289	MG	0.00	0.00	500.00
3584	-14894	-14960	-14959	-14893	MG	0.00	0.00	500.00
3584	-15026	-15099	-15091	-15025	MG	0.00	0.00	500.00
3584	-15227	-15293	-15292	-15226	MG	0.00	0.00	500.00
3584	-16091	-16157	-16156	-16090	MG	0.00	0.00	500.00
3584	-14695	-14761	-14760	-14694	MG	0.00	0.00	500.00
3584	-15958	-16024	-16023	-15957	MG	0.00	0.00	500.00
3584	-16090	-16156	-16155	-16089	MG	0.00	0.00	500.00
3584	-16156	-16222	-16221	-16155	MG	0.00	0.00	500.00
3584	-13569	-13635	-13634	-13568	MG	0.00	0.00	500.00
3584	-13635	-13701	-13700	-13634	MG	0.00	0.00	500.00
3584	-16089	-16155	-16154	-16088	MG	0.00	0.00	500.00
3584	-16221	-16287	-16286	-16220	MG	0.00	0.00	500.00
3584	-14561	-14629	-14628	-14560	MG	0.00	0.00	500.00
3584	-16485	-16551	-16550	-16484	MG	0.00	0.00	500.00
3584	-15956	-16022	-16021	-15955	MG	0.00	0.00	500.00
3584	-16426	-16492	-16491	-16425	MG	0.00	0.00	500.00

3584	-15358	-15424	-15423	-15357	MG	0.00	0.00	500.00
3584	-15754	-15820	-15819	-15753	MG	0.00	0.00	500.00
3584	-15820	-15887	-15886	-15819	MG	0.00	0.00	500.00
3584	-15887	-15953	-15952	-15886	MG	0.00	0.00	500.00
3584	-16219	-16285	-16284	-16218	MG	0.00	0.00	500.00
3584	-14838	-14904	-14903	-14837	MG	0.00	0.00	500.00
3584	-15170	-15237	-15236	-15169	MG	0.00	0.00	500.00
3584	-15237	-15303	-15302	-15236	MG	0.00	0.00	500.00
3584	-13357	-13429	-13428	-13356	MG	0.00	0.00	500.00
3584	-13429	-13499	-13498	-13428	MG	0.00	0.00	500.00
3584	-14638	-14704	-14703	-14637	MG	0.00	0.00	500.00
3584	-14836	-14902	-14901	-14835	MG	0.00	0.00	500.00
3584	-14902	-14968	-14967	-14901	MG	0.00	0.00	500.00
3584	-15168	-15235	-15234	-15167	MG	0.00	0.00	500.00
3584	-14960	-15026	-15025	-14959	MG	0.00	0.00	500.00
3584	-14163	-14229	-14228	-14162	MG	0.00	0.00	500.00
3584	-14229	-14295	-14294	-14228	MG	0.00	0.00	500.00
3584	-14835	-14901	-14900	-14834	MG	0.00	0.00	500.00
3584	-15104	-15167	-15166	-15132	MG	0.00	0.00	500.00
3584	-13961	-14028	-14027	-13960	MG	0.00	0.00	500.00
3584	-14096	-14162	-14161	-14095	MG	0.00	0.00	500.00
3584	-15025	-15091	-15090	-15024	MG	0.00	0.00	500.00
3584	-14768	-14834	-14833	-14767	MG	0.00	0.00	500.00
3584	-15166	-15233	-15232	-15165	MG	0.00	0.00	500.00
3584	-15233	-15299	-15298	-15232	MG	0.00	0.00	500.00
3584	-14491	-14561	-14560	-14490	MG	0.00	0.00	500.00
3584	-16287	-16353	-16352	-16286	MG	0.00	0.00	500.00
3584	-16030	-16096	-16095	-16029	MG	0.00	0.00	500.00
3584	-16419	-16485	-16484	-16418	MG	0.00	0.00	500.00
3584	-14766	-14832	-14831	-14765	MG	0.00	0.00	500.00
3584	-16551	-16584	-16583	-16550	MG	0.00	0.00	500.00
3584	-16022	-16088	-16087	-16021	MG	0.00	0.00	500.00
3584	-15164	-15231	-15230	-15163	MG	0.00	0.00	500.00
3584	-15231	-15297	-15296	-15230	MG	0.00	0.00	500.00
3584	-14633	-14699	-14698	-14632	MG	0.00	0.00	500.00
3584	-13765	-13831	-13830	-13764	MG	0.00	0.00	500.00
3584	-16293	-16359	-16358	-16292	MG	0.00	0.00	500.00
3584	-14897	-14963	-14962	-14896	MG	0.00	0.00	500.00
3584	-16491	-16557	-16556	-16490	MG	0.00	0.00	500.00
3584	-16557	-16590	-16589	-16556	MG	0.00	0.00	500.00
3584	-15962	-16028	-16027	-15961	MG	0.00	0.00	500.00
3584	-16028	-16094	-16093	-16027	MG	0.00	0.00	500.00
3584	-13830	-13898	-13897	-13829	MG	0.00	0.00	500.00
3584	-16490	-16556	-16555	-16489	MG	0.00	0.00	500.00
3584	-15162	-15229	-15228	-15161	MG	0.00	0.00	500.00
3584	-15229	-15295	-15294	-15228	MG	0.00	0.00	500.00
3584	-15100	-15161	-15160	-15099	MG	0.00	0.00	500.00
3584	-13832	-13900	-13899	-13831	MG	0.00	0.00	500.00
3584	-14832	-14898	-14897	-14831	MG	0.00	0.00	500.00
3584	-15953	-16019	-16018	-15952	MG	0.00	0.00	500.00
3584	-13359	-13431	-13430	-13358	MG	0.00	0.00	500.00
3584	-16488	-16554	-16553	-16487	MG	0.00	0.00	500.00
3584	-15160	-15227	-15226	-15159	MG	0.00	0.00	500.00
3584	-16025	-16091	-16090	-16024	MG	0.00	0.00	500.00
3584	-16157	-16223	-16222	-16156	MG	0.00	0.00	500.00
3584	-14761	-14827	-14826	-14760	MG	0.00	0.00	500.00
3584	-14827	-14893	-14892	-14826	MG	0.00	0.00	500.00
3584	-14959	-15025	-15024	-14958	MG	0.00	0.00	500.00
3584	-13426	-13496	-13495	-13425	MG	0.00	0.00	500.00
3584	-15226	-15292	-15291	-15225	MG	0.00	0.00	500.00
3584	-13628	-13694	-13693	-13627	MG	0.00	0.00	500.00
3584	-14966	-15032	-15031	-14965	MG	0.00	0.00	500.00
3584	-16288	-16354	-16353	-16287	MG	0.00	0.00	500.00
3584	-16354	-16420	-16419	-16353	MG	0.00	0.00	500.00
3584	-13701	-13767	-13766	-13700	MG	0.00	0.00	500.00
3584	-13425	-13495	-13494	-13424	MG	0.00	0.00	500.00
3584	-14833	-14899	-14898	-14832	MG	0.00	0.00	500.00
3584	-14704	-14770	-14769	-14703	MG	0.00	0.00	500.00
3584	-15036	-15094	-15105	-15035	MG	0.00	0.00	500.00
3584	-16220	-16286	-16285	-16219	MG	0.00	0.00	500.00
3584	-15963	-16029	-16028	-15962	MG	0.00	0.00	500.00
3584	-15099	-15160	-15159	-15091	MG	0.00	0.00	500.00
3584	-14295	-14361	-14360	-14294	MG	0.00	0.00	500.00
3584	-13358	-13430	-13429	-13357	MG	0.00	0.00	500.00
3584	-13632	-13698	-13697	-13631	MG	0.00	0.00	500.00
3584	-16024	-16090	-16089	-16023	MG	0.00	0.00	500.00
3584	-14900	-14966	-14965	-14899	MG	0.00	0.00	500.00
3584	-16152	-16218	-16217	-16151	MG	0.00	0.00	500.00
3584	-16151	-16217	-16216	-16150	MG	0.00	0.00	500.00

3584	-16423	-16489	-16488	-16422	MG	0.00	0.00	500.00
3584	-16085	-16151	-16150	-16084	MG	0.00	0.00	500.00
3584	-14834	-14900	-14899	-14833	MG	0.00	0.00	500.00
3584	-14970	-15036	-15035	-14969	MG	0.00	0.00	500.00
3584	-14360	-14426	-14425	-14359	MG	0.00	0.00	500.00
3584	-15132	-15166	-15165	-15103	MG	0.00	0.00	500.00
3584	-16422	-16488	-16487	-16421	MG	0.00	0.00	500.00
3584	-16486	-16552	-16551	-16485	MG	0.00	0.00	500.00
3584	-14361	-14427	-14426	-14360	MG	0.00	0.00	500.00
3584	-14967	-15033	-15032	-14966	MG	0.00	0.00	500.00
3584	-13761	-13827	-13826	-13760	MG	0.00	0.00	500.00
3584	-14563	-14631	-14630	-14562	MG	0.00	0.00	500.00
3584	-16289	-16355	-16354	-16288	MG	0.00	0.00	500.00
3584	-15234	-15300	-15299	-15233	MG	0.00	0.00	500.00
3584	-14228	-14294	-14293	-14227	MG	0.00	0.00	500.00
3584	-13897	-13967	-13966	-13896	MG	0.00	0.00	500.00
3584	-14632	-14698	-14697	-14631	MG	0.00	0.00	500.00
3584	-14702	-14768	-14767	-14701	MG	0.00	0.00	500.00
3584	-13698	-13764	-13763	-13697	MG	0.00	0.00	500.00
3584	-15954	-16020	-16019	-15953	MG	0.00	0.00	500.00
3584	-13960	-14027	-14026	-13959	MG	0.00	0.00	500.00
3584	-14635	-14701	-14700	-14634	MG	0.00	0.00	500.00
3584	-14161	-14227	-14226	-14160	MG	0.00	0.00	500.00
3584	-14903	-14969	-14968	-14902	MG	0.00	0.00	500.00
3584	-14969	-15035	-15034	-14968	MG	0.00	0.00	500.00
3584	-14899	-14965	-14964	-14898	MG	0.00	0.00	500.00
3584	-16291	-16357	-16356	-16290	MG	0.00	0.00	500.00
3584	-14895	-14961	-14960	-14894	MG	0.00	0.00	500.00
3584	-13289	-13356	-13355	-13288	MG	0.00	0.00	500.00
3584	-16357	-16423	-16422	-16356	MG	0.00	0.00	500.00
3584	-16355	-16421	-16420	-16354	MG	0.00	0.00	500.00
3584	-16285	-16351	-16350	-16284	MG	0.00	0.00	500.00
3584	-14162	-14228	-14227	-14161	MG	0.00	0.00	500.00
3584	-14294	-14360	-14359	-14293	MG	0.00	0.00	500.00
3584	-16358	-16424	-16423	-16357	MG	0.00	0.00	500.00
3584	-15101	-15167	-15166	-15100	MG	0.00	0.00	500.00
3584	-15961	-16027	-16026	-15960	MG	0.00	0.00	500.00
3584	-16359	-16425	-16424	-16358	MG	0.00	0.00	500.00
3584	-14963	-15029	-15028	-14962	MG	0.00	0.00	500.00
3584	-16425	-16491	-16490	-16424	MG	0.00	0.00	500.00
3584	-14893	-14959	-14958	-14892	MG	0.00	0.00	500.00
3584	-16153	-16219	-16218	-16152	MG	0.00	0.00	500.00
3584	-13565	-13631	-13630	-13564	MG	0.00	0.00	500.00
3584	-16094	-16160	-16159	-16093	MG	0.00	0.00	500.00
3584	-13764	-13830	-13829	-13763	MG	0.00	0.00	500.00
3584	-14562	-14630	-14629	-14561	MG	0.00	0.00	500.00
3584	-13290	-13357	-13356	-13289	MG	0.00	0.00	500.00
3584	-14095	-14161	-14160	-14094	MG	0.00	0.00	500.00
3584	-16350	-16416	-16415	-16349	MG	0.00	0.00	500.00
3584	-16548	-16581	-16580	-16547	MG	0.00	0.00	500.00
3584	-16482	-16548	-16547	-16481	MG	0.00	0.00	500.00
3584	-15105	-15169	-15168	-15093	MG	0.00	0.00	500.00
3584	-15169	-15236	-15235	-15168	MG	0.00	0.00	500.00
3584	-13829	-13897	-13896	-13828	MG	0.00	0.00	500.00
3584	-13291	-13358	-13357	-13290	MG	0.00	0.00	500.00
3584	-16021	-16087	-16086	-16020	MG	0.00	0.00	500.00
3584	-16020	-16086	-16085	-16019	MG	0.00	0.00	500.00
3584	-16087	-16153	-16152	-16086	MG	0.00	0.00	500.00
3584	-14426	-14492	-14491	-14425	MG	0.00	0.00	500.00
3584	-16086	-16152	-16151	-16085	MG	0.00	0.00	500.00
3584	-16549	-16582	-16581	-16548	MG	0.00	0.00	500.00
3584	-16223	-16289	-16288	-16222	MG	0.00	0.00	500.00
3584	-13831	-13899	-13898	-13830	MG	0.00	0.00	500.00
3584	-16556	-16589	-16588	-16555	MG	0.00	0.00	500.00
3584	-16416	-16482	-16481	-16415	MG	0.00	0.00	500.00
3584	-13899	-13969	-13968	-13898	MG	0.00	0.00	500.00
3584	-14771	-14837	-14836	-14770	MG	0.00	0.00	500.00
3584	-14493	-14563	-14562	-14492	MG	0.00	0.00	500.00
3584	-14427	-14493	-14492	-14426	MG	0.00	0.00	500.00
3584	-13898	-13968	-13967	-13897	MG	0.00	0.00	500.00
3584	-13499	-13565	-13564	-13498	MG	0.00	0.00	500.00
3590	-12512	-11495	-12004	-12511	MG	0.00	0.00	500.00
3590	-12511	-12004	-12510	-12510	MG	0.00	0.00	500.00
3590	-9947	-11495	-12525	-12525	MG	0.00	0.00	500.00
3590	-11495	-12512	-12513	-12513	MG	0.00	0.00	500.00
3590	-12513	-12525	-11495	-11495	MG	0.00	0.00	500.00
3592	-12526	-12527	-9825	-9384	MG	0.00	0.00	500.00
3592	-10208	-12547	-9571	-9571	MG	0.00	0.00	500.00
3592	-12547	-9571	-9825	-12527	MG	0.00	0.00	500.00

3593	-13256	-13257	-10094	-9078	MG	0.00	0.00	500.00
3593	-13258	-9842	-10094	-13257	MG	0.00	0.00	500.00
3593	-9297	-9842	-13258	-13259	MG	0.00	0.00	500.00
3597	-12116	-13250	-13251	-13251	MG	0.00	0.00	500.00
3597	-13250	-12116	-13248	-13249	MG	0.00	0.00	500.00
3597	-10202	-12116	-13252	-13252	MG	0.00	0.00	500.00
3597	-13251	-13252	-12116	-12116	MG	0.00	0.00	500.00
3602	-13934	-10136	-10373	-13933	MG	0.00	0.00	500.00
3602	-11425	-9565	-9511	-13935	MG	0.00	0.00	500.00
3602	-13932	-13933	-10373	-9304	MG	0.00	0.00	500.00
3602	-9511	-10136	-13934	-13935	MG	0.00	0.00	500.00
3603	-10638	-12770	-13928	-13928	MG	0.00	0.00	500.00
3603	-12770	-13926	-13927	-13927	MG	0.00	0.00	500.00
3603	-13927	-13928	-12770	-12770	MG	0.00	0.00	500.00
3603	-13926	-12770	-13924	-13925	MG	0.00	0.00	500.00
3608	-14603	-14604	-11013	-9514	MG	0.00	0.00	500.00
3608	-12025	-9817	-9658	-14606	MG	0.00	0.00	500.00
3608	-9658	-10452	-14605	-14606	MG	0.00	0.00	500.00
3608	-14605	-10452	-11013	-14604	MG	0.00	0.00	500.00
3610	-14598	-14599	-13415	-13415	MG	0.00	0.00	500.00
3610	-11287	-13415	-14599	-14599	MG	0.00	0.00	500.00
3610	-13415	-14597	-14598	-14598	MG	0.00	0.00	500.00
3610	-14597	-13415	-14595	-14596	MG	0.00	0.00	500.00
3617	-12699	-10066	-9978	-15271	MG	0.00	0.00	500.00
3617	-15268	-15269	-11635	-9661	MG	0.00	0.00	500.00
3617	-9978	-11040	-15270	-15271	MG	0.00	0.00	500.00
3617	-15270	-11040	-11635	-15269	MG	0.00	0.00	500.00
3619	-13955	-15262	-15263	-15263	MG	0.00	0.00	500.00
3619	-15263	-15264	-13955	-13955	MG	0.00	0.00	500.00
3619	-14626	-15260	-15261	-15261	MG	0.00	0.00	500.00
3619	-11907	-13955	-15264	-15264	MG	0.00	0.00	500.00
3619	-15262	-13955	-14626	-15261	MG	0.00	0.00	500.00
3625	-15931	-11683	-12257	-15930	MG	0.00	0.00	500.00
3625	-15929	-15930	-12257	-9986	MG	0.00	0.00	500.00
3625	-10210	-11683	-15931	-15932	MG	0.00	0.00	500.00
3625	-13279	-10310	-10210	-15932	MG	0.00	0.00	500.00
3626	-15924	-15925	-14556	-14556	MG	0.00	0.00	500.00
3626	-12553	-14556	-15925	-15925	MG	0.00	0.00	500.00
3626	-15923	-14556	-15921	-15922	MG	0.00	0.00	500.00
3626	-14556	-15923	-15924	-15924	MG	0.00	0.00	500.00
3630	-15801	-15802	-15868	-15867	MG	0.00	0.00	500.00
3630	-11071	-11072	-11137	-11136	MG	0.00	0.00	500.00
3630	-13937	-13938	-14008	-14007	MG	0.00	0.00	500.00
3630	-14142	-14143	-14209	-14208	MG	0.00	0.00	500.00
3630	-10655	-10703	-10788	-10787	MG	0.00	0.00	500.00
3630	-14078	-14079	-14143	-14142	MG	0.00	0.00	500.00
3630	-14208	-14209	-14275	-14274	MG	0.00	0.00	500.00
3630	-12752	-12753	-12823	-12822	MG	0.00	0.00	500.00
3630	-15655	-15654	-15720	-15721	MG	0.00	0.00	500.00
3630	-12517	-12530	-12608	-12607	MG	0.00	0.00	500.00
3630	-15656	-15655	-15721	-15722	MG	0.00	0.00	500.00
3630	-15722	-15721	-15787	-15788	MG	0.00	0.00	500.00
3630	-10424	-10425	-10502	-10501	MG	0.00	0.00	500.00
3630	-15800	-15801	-15867	-15866	MG	0.00	0.00	500.00
3630	-15668	-15669	-15735	-15734	MG	0.00	0.00	500.00
3630	-15459	-15458	-15524	-15525	MG	0.00	0.00	500.00
3630	-15525	-15524	-15590	-15591	MG	0.00	0.00	500.00
3630	-15591	-15590	-15656	-15657	MG	0.00	0.00	500.00
3630	-16000	-16001	-16067	-16066	MG	0.00	0.00	500.00
3630	-15866	-15867	-15934	-15933	MG	0.00	0.00	500.00
3630	-12680	-12681	-12752	-12751	MG	0.00	0.00	500.00
3630	-12529	-12517	-12607	-12606	MG	0.00	0.00	500.00
3630	-11269	-11270	-11342	-11341	MG	0.00	0.00	500.00
3630	-11754	-11755	-11821	-11820	MG	0.00	0.00	500.00
3630	-12751	-12752	-12822	-12821	MG	0.00	0.00	500.00
3630	-14273	-14274	-14340	-14339	MG	0.00	0.00	500.00
3630	-15071	-15072	-15142	-15141	MG	0.00	0.00	500.00
3630	-12442	-12443	-12517	-12529	MG	0.00	0.00	500.00
3630	-15867	-15868	-15935	-15934	MG	0.00	0.00	500.00
3630	-12066	-12099	-12161	-12145	MG	0.00	0.00	500.00
3630	-15273	-15274	-15340	-15339	MG	0.00	0.00	500.00
3630	-11755	-11756	-11822	-11821	MG	0.00	0.00	500.00
3630	-11820	-11821	-11867	-11884	MG	0.00	0.00	500.00
3630	-13936	-13937	-14007	-14006	MG	0.00	0.00	500.00
3630	-15589	-15588	-15654	-15655	MG	0.00	0.00	500.00
3630	-11616	-11617	-11689	-11688	MG	0.00	0.00	500.00
3630	-11476	-11477	-11547	-11546	MG	0.00	0.00	500.00
3630	-11340	-11341	-11407	-11406	MG	0.00	0.00	500.00
3630	-11202	-11203	-11269	-11268	MG	0.00	0.00	500.00

3630	-15536	-15537	-15603	-15602	MG	0.00	0.00	500.00
3630	-13539	-13540	-13606	-13605	MG	0.00	0.00	500.00
3630	-13604	-13605	-13671	-13670	MG	0.00	0.00	500.00
3630	-14339	-14340	-14406	-14405	MG	0.00	0.00	500.00
3630	-14077	-14078	-14142	-14141	MG	0.00	0.00	500.00
3630	-13085	-13117	-13196	-13195	MG	0.00	0.00	500.00
3630	-13194	-13195	-13261	-13260	MG	0.00	0.00	500.00
3630	-11268	-11269	-11341	-11340	MG	0.00	0.00	500.00
3630	-11072	-11073	-11138	-11137	MG	0.00	0.00	500.00
3630	-15458	-15457	-15523	-15524	MG	0.00	0.00	500.00
3630	-12892	-12893	-12975	-12974	MG	0.00	0.00	500.00
3630	-16263	-16264	-16330	-16329	MG	0.00	0.00	500.00
3630	-16264	-16265	-16331	-16330	MG	0.00	0.00	500.00
3630	-16066	-16067	-16133	-16132	MG	0.00	0.00	500.00
3630	-16131	-16132	-16198	-16197	MG	0.00	0.00	500.00
3630	-16132	-16133	-16199	-16198	MG	0.00	0.00	500.00
3630	-15934	-15935	-16001	-16000	MG	0.00	0.00	500.00
3630	-15999	-16000	-16066	-16065	MG	0.00	0.00	500.00
3630	-16119	-16118	-16184	-16185	MG	0.00	0.00	500.00
3630	-16185	-16184	-16250	-16251	MG	0.00	0.00	500.00
3630	-16251	-16250	-16316	-16317	MG	0.00	0.00	500.00
3630	-16317	-16316	-16382	-16383	MG	0.00	0.00	500.00
3630	-15669	-15670	-15736	-15735	MG	0.00	0.00	500.00
3630	-12309	-12310	-12378	-12377	MG	0.00	0.00	500.00
3630	-15537	-15538	-15604	-15603	MG	0.00	0.00	500.00
3630	-15924	-15990	-15991	-15925	MG	0.00	0.00	500.00
3630	-15603	-15604	-15670	-15669	MG	0.00	0.00	500.00
3630	-15470	-15471	-15537	-15536	MG	0.00	0.00	500.00
3630	-15471	-15472	-15538	-15537	MG	0.00	0.00	500.00
3630	-16318	-16317	-16383	-16384	MG	0.00	0.00	500.00
3630	-11617	-11618	-11690	-11689	MG	0.00	0.00	500.00
3630	-14471	-14472	-14538	-14537	MG	0.00	0.00	500.00
3630	-11689	-11690	-11756	-11755	MG	0.00	0.00	500.00
3630	-15006	-15007	-15073	-15072	MG	0.00	0.00	500.00
3630	-16121	-16120	-16186	-16187	MG	0.00	0.00	500.00
3630	-15072	-15073	-15143	-15142	MG	0.00	0.00	500.00
3630	-14874	-14875	-14941	-14940	MG	0.00	0.00	500.00
3630	-14939	-14940	-15006	-15005	MG	0.00	0.00	500.00
3630	-14472	-14473	-14539	-14538	MG	0.00	0.00	500.00
3630	-14537	-14538	-14608	-14607	MG	0.00	0.00	500.00
3630	-14538	-14539	-14609	-14608	MG	0.00	0.00	500.00
3630	-14405	-14406	-14472	-14471	MG	0.00	0.00	500.00
3630	-16123	-16122	-16188	-16189	MG	0.00	0.00	500.00
3630	-14141	-14142	-14208	-14207	MG	0.00	0.00	500.00
3630	-16255	-16254	-16320	-16321	MG	0.00	0.00	500.00
3630	-16321	-16320	-16386	-16387	MG	0.00	0.00	500.00
3630	-14007	-14008	-14079	-14078	MG	0.00	0.00	500.00
3630	-13868	-13869	-13937	-13936	MG	0.00	0.00	500.00
3630	-13869	-13870	-13938	-13937	MG	0.00	0.00	500.00
3630	-13671	-13672	-13738	-13737	MG	0.00	0.00	500.00
3630	-13605	-13606	-13672	-13671	MG	0.00	0.00	500.00
3630	-14207	-14208	-14274	-14273	MG	0.00	0.00	500.00
3630	-12891	-12892	-12974	-12973	MG	0.00	0.00	500.00
3630	-15928	-15927	-15993	-15994	MG	0.00	0.00	500.00
3630	-16324	-16323	-16389	-16390	MG	0.00	0.00	500.00
3630	-12607	-12608	-12682	-12681	MG	0.00	0.00	500.00
3630	-15405	-15406	-15472	-15471	MG	0.00	0.00	500.00
3630	-11980	-12010	-12066	-12098	MG	0.00	0.00	500.00
3630	-12010	-11972	-12099	-12066	MG	0.00	0.00	500.00
3630	-15924	-15923	-15989	-15990	MG	0.00	0.00	500.00
3630	-11406	-11407	-11477	-11476	MG	0.00	0.00	500.00
3630	-11407	-11408	-11478	-11477	MG	0.00	0.00	500.00
3630	-11203	-11204	-11270	-11269	MG	0.00	0.00	500.00
3630	-16261	-16260	-16326	-16327	MG	0.00	0.00	500.00
3630	-14675	-14676	-14742	-14741	MG	0.00	0.00	500.00
3630	-10809	-10859	-10930	-10929	MG	0.00	0.00	500.00
3630	-10632	-10617	-10703	-10655	MG	0.00	0.00	500.00
3630	-15058	-15057	-15123	-15124	MG	0.00	0.00	500.00
3630	-15124	-15123	-15191	-15192	MG	0.00	0.00	500.00
3630	-10500	-10501	-10632	-10590	MG	0.00	0.00	500.00
3630	-10501	-10502	-10617	-10632	MG	0.00	0.00	500.00
3630	-10291	-10292	-10363	-10362	MG	0.00	0.00	500.00
3630	-15404	-15405	-15471	-15470	MG	0.00	0.00	500.00
3630	-13936	-13935	-14005	-14006	MG	0.00	0.00	500.00
3630	-10289	3501	-10359	-10360	MG	0.00	0.00	500.00
3630	-10361	-10360	-10441	-10423	MG	0.00	0.00	500.00
3630	-10360	-10359	-10440	-10441	MG	0.00	0.00	500.00
3630	-10423	-10441	-10499	-10500	MG	0.00	0.00	500.00
3630	-10590	-10589	-10701	-10702	MG	0.00	0.00	500.00

3630	-10589	-10588	-10700	-10701	MG	0.00	0.00	500.00
3630	-10702	-10701	-10785	-10786	MG	0.00	0.00	500.00
3630	-10701	-10700	-10784	-10785	MG	0.00	0.00	500.00
3630	-10786	-10785	-10843	-10858	MG	0.00	0.00	500.00
3630	-10785	-10784	-10842	-10843	MG	0.00	0.00	500.00
3630	-10858	-10843	-10928	-10893	MG	0.00	0.00	500.00
3630	-15602	-15603	-15669	-15668	MG	0.00	0.00	500.00
3630	-16054	-16053	-16119	-16120	MG	0.00	0.00	500.00
3630	-10993	-10992	-11070	-11071	MG	0.00	0.00	500.00
3630	-10992	-10991	-11069	-11070	MG	0.00	0.00	500.00
3630	-13259	-13258	-13327	-13328	MG	0.00	0.00	500.00
3630	-13328	-13327	-13394	-13395	MG	0.00	0.00	500.00
3630	-15339	-15340	-15406	-15405	MG	0.00	0.00	500.00
3630	-15205	-15206	-15273	-15272	MG	0.00	0.00	500.00
3630	-15206	-15207	-15274	-15273	MG	0.00	0.00	500.00
3630	-16055	-16054	-16120	-16121	MG	0.00	0.00	500.00
3630	-13801	-13800	-13866	-13867	MG	0.00	0.00	500.00
3630	-13867	-13866	-13934	-13935	MG	0.00	0.00	500.00
3630	-13260	-13259	-13328	-13329	MG	0.00	0.00	500.00
3630	-13329	-13328	-13395	-13396	MG	0.00	0.00	500.00
3630	-13396	-13395	-13467	-13468	MG	0.00	0.00	500.00
3630	-13468	-13467	-13537	-13538	MG	0.00	0.00	500.00
3630	-14608	-14609	-14677	-14676	MG	0.00	0.00	500.00
3630	-15326	-15325	-15391	-15392	MG	0.00	0.00	500.00
3630	-14676	-14677	-14743	-14742	MG	0.00	0.00	500.00
3630	-13802	-13801	-13867	-13868	MG	0.00	0.00	500.00
3630	-13868	-13867	-13935	-13936	MG	0.00	0.00	500.00
3630	-11753	-11752	-11818	-11819	MG	0.00	0.00	500.00
3630	-11819	-11818	-11882	-11883	MG	0.00	0.00	500.00
3630	-11883	-11882	-12009	-11971	MG	0.00	0.00	500.00
3630	-11971	-12009	-12097	-12065	MG	0.00	0.00	500.00
3630	-12065	-12097	-12160	-12119	MG	0.00	0.00	500.00
3630	-15991	-15990	-16056	-16057	MG	0.00	0.00	500.00
3630	-14274	-14275	-14341	-14340	MG	0.00	0.00	500.00
3630	-10839	-10918	-10919	-10853	MG	0.00	0.00	500.00
3630	-12375	-12374	-12440	-12441	MG	0.00	0.00	500.00
3630	-12441	-12440	-12547	-12528	MG	0.00	0.00	500.00
3630	-11754	-11753	-11819	-11820	MG	0.00	0.00	500.00
3630	-11820	-11819	-11883	-11884	MG	0.00	0.00	500.00
3630	-11884	-11883	-11971	-11980	MG	0.00	0.00	500.00
3630	-11980	-11971	-12065	-12098	MG	0.00	0.00	500.00
3630	-12098	-12065	-12119	-12113	MG	0.00	0.00	500.00
3630	-13737	-13738	-13804	-13803	MG	0.00	0.00	500.00
3630	-16256	-16255	-16321	-16322	MG	0.00	0.00	500.00
3630	-16322	-16321	-16387	-16388	MG	0.00	0.00	500.00
3630	-12605	-12604	-12678	-12679	MG	0.00	0.00	500.00
3630	-12750	-12749	-12819	-12820	MG	0.00	0.00	500.00
3630	-13469	-13470	-13540	-13539	MG	0.00	0.00	500.00
3630	-13330	-13331	-13398	-13397	MG	0.00	0.00	500.00
3630	-13195	-13196	-13262	-13261	MG	0.00	0.00	500.00
3630	-12822	-12823	-12893	-12892	MG	0.00	0.00	500.00
3630	-12821	-12820	-12890	-12891	MG	0.00	0.00	500.00
3630	-15994	-15993	-16059	-16060	MG	0.00	0.00	500.00
3630	-16060	-16059	-16125	-16126	MG	0.00	0.00	500.00
3630	-12681	-12682	-12753	-12752	MG	0.00	0.00	500.00
3630	-13194	-13193	-13259	-13260	MG	0.00	0.00	500.00
3630	-11070	-11069	-11134	-11135	MG	0.00	0.00	500.00
3630	-12606	-12607	-12681	-12680	MG	0.00	0.00	500.00
3630	-11201	-11200	-11266	-11267	MG	0.00	0.00	500.00
3630	-12377	-12378	-12444	-12443	MG	0.00	0.00	500.00
3630	-15929	-15928	-15994	-15995	MG	0.00	0.00	500.00
3630	-12443	-12444	-12530	-12517	MG	0.00	0.00	500.00
3630	-12237	-12238	-12310	-12309	MG	0.00	0.00	500.00
3630	-16193	-16192	-16258	-16259	MG	0.00	0.00	500.00
3630	-16259	-16258	-16324	-16325	MG	0.00	0.00	500.00
3630	-12113	-12114	-12237	-12236	MG	0.00	0.00	500.00
3630	-12145	-12161	-12238	-12237	MG	0.00	0.00	500.00
3630	-11268	-11267	-11339	-11340	MG	0.00	0.00	500.00
3630	-11340	-11339	-11405	-11406	MG	0.00	0.00	500.00
3630	-15996	-15995	-16061	-16062	MG	0.00	0.00	500.00
3630	-16062	-16061	-16127	-16128	MG	0.00	0.00	500.00
3630	-11821	-11822	-11885	-11867	MG	0.00	0.00	500.00
3630	-16194	-16193	-16259	-16260	MG	0.00	0.00	500.00
3630	-11688	-11689	-11755	-11754	MG	0.00	0.00	500.00
3630	-16326	-16325	-16391	-16392	MG	0.00	0.00	500.00
3630	-11477	-11478	-11548	-11547	MG	0.00	0.00	500.00
3630	-11546	-11547	-11617	-11616	MG	0.00	0.00	500.00
3630	-11341	-11342	-11408	-11407	MG	0.00	0.00	500.00
3630	-16195	-16194	-16260	-16261	MG	0.00	0.00	500.00



3630	-16327	-16326	-16392	-16393	MG	0.00	0.00	500.00
3630	-10993	-10994	-11072	-11071	MG	0.00	0.00	500.00
3630	-10994	-10995	-11073	-11072	MG	0.00	0.00	500.00
3630	-10787	-10788	-10859	-10809	MG	0.00	0.00	500.00
3630	-10858	-10809	-10929	-10893	MG	0.00	0.00	500.00
3630	-10702	-10655	-10787	-10786	MG	0.00	0.00	500.00
3630	-15272	-15273	-15339	-15338	MG	0.00	0.00	500.00
3630	-14730	-14729	-14795	-14796	MG	0.00	0.00	500.00
3630	-15259	-15258	-15324	-15325	MG	0.00	0.00	500.00
3630	-16329	-16330	-16396	-16395	MG	0.00	0.00	500.00
3630	-16197	-16198	-16264	-16263	MG	0.00	0.00	500.00
3630	-16065	-16066	-16132	-16131	MG	0.00	0.00	500.00
3630	-15933	-15934	-16000	-15999	MG	0.00	0.00	500.00
3630	-13736	-13737	-13803	-13802	MG	0.00	0.00	500.00
3630	-10290	-10291	-10362	-10361	MG	0.00	0.00	500.00
3630	-10423	-10424	-10501	-10500	MG	0.00	0.00	500.00
3630	-10590	-10632	-10655	-10702	MG	0.00	0.00	500.00
3630	-10786	-10787	-10809	-10858	MG	0.00	0.00	500.00
3630	-10893	-10929	-10994	-10993	MG	0.00	0.00	500.00
3630	-15141	-15142	-15206	-15205	MG	0.00	0.00	500.00
3630	-13261	-13262	-13331	-13330	MG	0.00	0.00	500.00
3630	-13329	-13330	-13397	-13396	MG	0.00	0.00	500.00
3630	-14741	-14742	-14808	-14807	MG	0.00	0.00	500.00
3630	-14607	-14608	-14676	-14675	MG	0.00	0.00	500.00
3630	-13802	-13803	-13869	-13868	MG	0.00	0.00	500.00
3630	-13670	-13671	-13737	-13736	MG	0.00	0.00	500.00
3630	-13538	-13539	-13605	-13604	MG	0.00	0.00	500.00
3630	-13396	-13397	-13469	-13468	MG	0.00	0.00	500.00
3630	-13260	-13261	-13330	-13329	MG	0.00	0.00	500.00
3630	-12376	-12377	-12443	-12442	MG	0.00	0.00	500.00
3630	-12236	-12237	-12309	-12308	MG	0.00	0.00	500.00
3630	-12098	-12066	-12145	-12113	MG	0.00	0.00	500.00
3630	-11884	-11867	-12010	-11980	MG	0.00	0.00	500.00
3630	-15338	-15337	-15403	-15404	MG	0.00	0.00	500.00
3630	-15404	-15403	-15469	-15470	MG	0.00	0.00	500.00
3630	-15470	-15469	-15535	-15536	MG	0.00	0.00	500.00
3630	-15536	-15535	-15601	-15602	MG	0.00	0.00	500.00
3630	-15602	-15601	-15667	-15668	MG	0.00	0.00	500.00
3630	-15668	-15667	-15733	-15734	MG	0.00	0.00	500.00
3630	-15734	-15733	-15799	-15800	MG	0.00	0.00	500.00
3630	-15800	-15799	-15865	-15866	MG	0.00	0.00	500.00
3630	-15866	-15865	-15932	-15933	MG	0.00	0.00	500.00
3630	-12308	-12309	-12377	-12376	MG	0.00	0.00	500.00
3630	-15998	-15997	-16063	-16064	MG	0.00	0.00	500.00
3630	-16064	-16063	-16129	-16130	MG	0.00	0.00	500.00
3630	-16130	-16129	-16195	-16196	MG	0.00	0.00	500.00
3630	-16196	-16195	-16261	-16262	MG	0.00	0.00	500.00
3630	-16262	-16261	-16327	-16328	MG	0.00	0.00	500.00
3630	-16328	-16327	-16393	-16394	MG	0.00	0.00	500.00
3630	-15933	-15932	-15998	-15999	MG	0.00	0.00	500.00
3630	-15999	-15998	-16064	-16065	MG	0.00	0.00	500.00
3630	-16065	-16064	-16130	-16131	MG	0.00	0.00	500.00
3630	-16131	-16130	-16196	-16197	MG	0.00	0.00	500.00
3630	-16197	-16196	-16262	-16263	MG	0.00	0.00	500.00
3630	-16263	-16262	-16328	-16329	MG	0.00	0.00	500.00
3630	-16329	-16328	-16394	-16395	MG	0.00	0.00	500.00
3630	-13128	-13085	-13195	-13194	MG	0.00	0.00	500.00
3630	-12973	-12974	-13053	-13052	MG	0.00	0.00	500.00
3630	-12821	-12822	-12892	-12891	MG	0.00	0.00	500.00
3630	-14606	-14605	-14673	-14674	MG	0.00	0.00	500.00
3630	-14674	-14673	-14739	-14740	MG	0.00	0.00	500.00
3630	-14740	-14739	-14805	-14806	MG	0.00	0.00	500.00
3630	-14806	-14805	-14871	-14872	MG	0.00	0.00	500.00
3630	-14872	-14871	-14937	-14938	MG	0.00	0.00	500.00
3630	-14938	-14937	-15003	-15004	MG	0.00	0.00	500.00
3630	-15004	-15003	-15069	-15070	MG	0.00	0.00	500.00
3630	-15070	-15069	-15129	-15140	MG	0.00	0.00	500.00
3630	-15140	-15129	-15203	-15204	MG	0.00	0.00	500.00
3630	-15204	-15203	-15270	-15271	MG	0.00	0.00	500.00
3630	-14607	-14606	-14674	-14675	MG	0.00	0.00	500.00
3630	-14675	-14674	-14740	-14741	MG	0.00	0.00	500.00
3630	-14741	-14740	-14806	-14807	MG	0.00	0.00	500.00
3630	-14807	-14806	-14872	-14873	MG	0.00	0.00	500.00
3630	-14873	-14872	-14938	-14939	MG	0.00	0.00	500.00
3630	-14939	-14938	-15004	-15005	MG	0.00	0.00	500.00
3630	-15005	-15004	-15070	-15071	MG	0.00	0.00	500.00
3630	-15071	-15070	-15140	-15141	MG	0.00	0.00	500.00
3630	-15141	-15140	-15204	-15205	MG	0.00	0.00	500.00
3630	-15205	-15204	-15271	-15272	MG	0.00	0.00	500.00

3630	-13395	-13394	-13466	-13467	MG	0.00	0.00	500.00
3630	-13467	-13466	-13536	-13537	MG	0.00	0.00	500.00
3630	-13537	-13536	-13602	-13603	MG	0.00	0.00	500.00
3630	-15721	-15720	-15786	-15787	MG	0.00	0.00	500.00
3630	-15787	-15786	-15852	-15853	MG	0.00	0.00	500.00
3630	-13538	-13537	-13603	-13604	MG	0.00	0.00	500.00
3630	-12376	-12375	-12441	-12442	MG	0.00	0.00	500.00
3630	-12442	-12441	-12528	-12529	MG	0.00	0.00	500.00
3630	-12528	-12547	-12604	-12605	MG	0.00	0.00	500.00
3630	-15658	-15657	-15723	-15724	MG	0.00	0.00	500.00
3630	-12679	-12678	-12749	-12750	MG	0.00	0.00	500.00
3630	-15790	-15789	-15855	-15856	MG	0.00	0.00	500.00
3630	-12820	-12819	-12889	-12890	MG	0.00	0.00	500.00
3630	-15005	-15006	-15072	-15071	MG	0.00	0.00	500.00
3630	-14873	-14874	-14940	-14939	MG	0.00	0.00	500.00
3630	-15395	-15394	-15460	-15461	MG	0.00	0.00	500.00
3630	-13116	-13127	-13192	-13193	MG	0.00	0.00	500.00
3630	-13193	-13192	-13258	-13259	MG	0.00	0.00	500.00
3630	-12529	-12528	-12605	-12606	MG	0.00	0.00	500.00
3630	-12606	-12605	-12679	-12680	MG	0.00	0.00	500.00
3630	-12680	-12679	-12750	-12751	MG	0.00	0.00	500.00
3630	-12751	-12750	-12820	-12821	MG	0.00	0.00	500.00
3630	-15856	-15923	-15924	-15857	MG	0.00	0.00	500.00
3630	-15264	-15263	-15329	-15330	MG	0.00	0.00	500.00
3630	-15330	-15329	-15395	-15396	MG	0.00	0.00	500.00
3630	-15396	-15395	-15461	-15462	MG	0.00	0.00	500.00
3630	-13128	-13116	-13193	-13194	MG	0.00	0.00	500.00
3630	-15528	-15527	-15593	-15594	MG	0.00	0.00	500.00
3630	-15594	-15593	-15659	-15660	MG	0.00	0.00	500.00
3630	-11135	-11134	-11200	-11201	MG	0.00	0.00	500.00
3630	-15726	-15725	-15791	-15792	MG	0.00	0.00	500.00
3630	-11267	-11266	-11338	-11339	MG	0.00	0.00	500.00
3630	-11339	-11338	-11404	-11405	MG	0.00	0.00	500.00
3630	-15265	-15264	-15330	-15331	MG	0.00	0.00	500.00
3630	-15331	-15330	-15396	-15397	MG	0.00	0.00	500.00
3630	-15932	-15931	-15997	-15998	MG	0.00	0.00	500.00
3630	-11615	-11614	-11686	-11687	MG	0.00	0.00	500.00
3630	-11687	-11686	-11752	-11753	MG	0.00	0.00	500.00
3630	-11071	-11070	-11135	-11136	MG	0.00	0.00	500.00
3630	-11136	-11135	-11201	-11202	MG	0.00	0.00	500.00
3630	-11202	-11201	-11267	-11268	MG	0.00	0.00	500.00
3630	-15793	-15792	-15858	-15859	MG	0.00	0.00	500.00
3630	-15859	-15858	-15925	-15926	MG	0.00	0.00	500.00
3630	-11406	-11405	-11475	-11476	MG	0.00	0.00	500.00
3630	-11476	-11475	-11545	-11546	MG	0.00	0.00	500.00
3630	-11546	-11545	-11615	-11616	MG	0.00	0.00	500.00
3630	-11616	-11615	-11687	-11688	MG	0.00	0.00	500.00
3630	-11688	-11687	-11753	-11754	MG	0.00	0.00	500.00
3630	-10494	-10610	-10552	-10495	MG	0.00	0.00	500.00
3630	-15267	-15266	-15332	-15333	MG	0.00	0.00	500.00
3630	-15333	-15332	-15398	-15399	MG	0.00	0.00	500.00
3630	-15399	-15398	-15464	-15465	MG	0.00	0.00	500.00
3630	-15531	-15530	-15596	-15597	MG	0.00	0.00	500.00
3630	-15466	-15465	-15531	-15532	MG	0.00	0.00	500.00
3630	-15532	-15531	-15597	-15598	MG	0.00	0.00	500.00
3630	-15664	-15663	-15729	-15730	MG	0.00	0.00	500.00
3630	-15730	-15729	-15795	-15796	MG	0.00	0.00	500.00
3630	-15796	-15795	-15861	-15862	MG	0.00	0.00	500.00
3630	-15862	-15861	-15928	-15929	MG	0.00	0.00	500.00
3630	-15269	-15268	-15334	-15335	MG	0.00	0.00	500.00
3630	-15335	-15334	-15400	-15401	MG	0.00	0.00	500.00
3630	-15731	-15730	-15796	-15797	MG	0.00	0.00	500.00
3630	-15797	-15796	-15862	-15863	MG	0.00	0.00	500.00
3630	-15863	-15862	-15929	-15930	MG	0.00	0.00	500.00
3630	-15600	-15599	-15665	-15666	MG	0.00	0.00	500.00
3630	-15666	-15665	-15731	-15732	MG	0.00	0.00	500.00
3630	-16330	-16331	-16397	-16396	MG	0.00	0.00	500.00
3630	-16198	-16199	-16265	-16264	MG	0.00	0.00	500.00
3630	-10361	-10362	-10424	-10423	MG	0.00	0.00	500.00
3630	-10362	-10363	-10425	-10424	MG	0.00	0.00	500.00
3630	-11740	-11806	-11807	-11741	MG	0.00	0.00	500.00
3630	-10290	-10289	-10360	-10361	MG	0.00	0.00	500.00
3630	-10441	-10440	-10498	-10499	MG	0.00	0.00	500.00
3630	-10500	-10499	-10589	-10590	MG	0.00	0.00	500.00
3630	-10499	-10498	-10588	-10589	MG	0.00	0.00	500.00
3630	-10843	-10842	-10927	-10928	MG	0.00	0.00	500.00
3630	-10893	-10928	-10992	-10993	MG	0.00	0.00	500.00
3630	-10928	-10927	-10991	-10992	MG	0.00	0.00	500.00
3630	-12525	-12598	-12599	-12514	MG	0.00	0.00	500.00

3630	-13603	-13602	-13668	-13669	MG	0.00	0.00	500.00
3630	-13669	-13668	-13734	-13735	MG	0.00	0.00	500.00
3630	-13735	-13734	-13800	-13801	MG	0.00	0.00	500.00
3630	-13604	-13603	-13669	-13670	MG	0.00	0.00	500.00
3630	-13670	-13669	-13735	-13736	MG	0.00	0.00	500.00
3630	-13736	-13735	-13801	-13802	MG	0.00	0.00	500.00
3630	-12119	-12160	-12234	-12235	MG	0.00	0.00	500.00
3630	-12235	-12234	-12306	-12307	MG	0.00	0.00	500.00
3630	-12307	-12306	-12374	-12375	MG	0.00	0.00	500.00
3630	-12113	-12119	-12235	-12236	MG	0.00	0.00	500.00
3630	-12236	-12235	-12307	-12308	MG	0.00	0.00	500.00
3630	-12308	-12307	-12375	-12376	MG	0.00	0.00	500.00
3630	-12890	-12889	-12972	-12962	MG	0.00	0.00	500.00
3630	-12962	-12972	-13050	-13051	MG	0.00	0.00	500.00
3630	-13051	-13050	-13127	-13116	MG	0.00	0.00	500.00
3630	-12891	-12890	-12962	-12973	MG	0.00	0.00	500.00
3630	-12973	-12962	-13051	-13052	MG	0.00	0.00	500.00
3630	-13052	-13051	-13116	-13128	MG	0.00	0.00	500.00
3630	-11405	-11404	-11474	-11475	MG	0.00	0.00	500.00
3630	-11475	-11474	-11544	-11545	MG	0.00	0.00	500.00
3630	-11545	-11544	-11614	-11615	MG	0.00	0.00	500.00
3630	-11133	-11199	-11200	-11134	MG	0.00	0.00	500.00
3630	-11403	-11473	-11474	-11404	MG	0.00	0.00	500.00
3630	-11473	-11543	-11544	-11474	MG	0.00	0.00	500.00
3630	-11543	-11613	-11614	-11544	MG	0.00	0.00	500.00
3630	-11613	-11685	-11686	-11614	MG	0.00	0.00	500.00
3630	-11685	-11751	-11752	-11686	MG	0.00	0.00	500.00
3630	-15325	-15324	-15390	-15391	MG	0.00	0.00	500.00
3630	-15391	-15390	-15456	-15457	MG	0.00	0.00	500.00
3630	-15457	-15456	-15522	-15523	MG	0.00	0.00	500.00
3630	-15523	-15522	-15588	-15589	MG	0.00	0.00	500.00
3630	-15853	-15852	-15919	-15920	MG	0.00	0.00	500.00
3630	-15260	-15259	-15325	-15326	MG	0.00	0.00	500.00
3630	-15392	-15391	-15457	-15458	MG	0.00	0.00	500.00
3630	-15524	-15523	-15589	-15590	MG	0.00	0.00	500.00
3630	-15590	-15589	-15655	-15656	MG	0.00	0.00	500.00
3630	-15788	-15787	-15853	-15854	MG	0.00	0.00	500.00
3630	-15854	-15853	-15920	-15921	MG	0.00	0.00	500.00
3630	-15261	-15260	-15326	-15327	MG	0.00	0.00	500.00
3630	-15327	-15326	-15392	-15393	MG	0.00	0.00	500.00
3630	-15393	-15392	-15458	-15459	MG	0.00	0.00	500.00
3630	-15657	-15656	-15722	-15723	MG	0.00	0.00	500.00
3630	-15723	-15722	-15788	-15789	MG	0.00	0.00	500.00
3630	-15789	-15788	-15854	-15855	MG	0.00	0.00	500.00
3630	-15855	-15854	-15921	-15922	MG	0.00	0.00	500.00
3630	-15262	-15261	-15327	-15328	MG	0.00	0.00	500.00
3630	-15328	-15327	-15393	-15394	MG	0.00	0.00	500.00
3630	-15394	-15393	-15459	-15460	MG	0.00	0.00	500.00
3630	-15460	-15459	-15525	-15526	MG	0.00	0.00	500.00
3630	-15526	-15525	-15591	-15592	MG	0.00	0.00	500.00
3630	-15592	-15591	-15657	-15658	MG	0.00	0.00	500.00
3630	-15724	-15723	-15789	-15790	MG	0.00	0.00	500.00
3630	-15856	-15855	-15922	-15923	MG	0.00	0.00	500.00
3630	-15263	-15262	-15328	-15329	MG	0.00	0.00	500.00
3630	-15329	-15328	-15394	-15395	MG	0.00	0.00	500.00
3630	-15461	-15460	-15526	-15527	MG	0.00	0.00	500.00
3630	-15527	-15526	-15592	-15593	MG	0.00	0.00	500.00
3630	-15593	-15592	-15658	-15659	MG	0.00	0.00	500.00
3630	-15659	-15658	-15724	-15725	MG	0.00	0.00	500.00
3630	-15725	-15724	-15790	-15791	MG	0.00	0.00	500.00
3630	-15791	-15790	-15856	-15857	MG	0.00	0.00	500.00
3630	-15462	-15461	-15527	-15528	MG	0.00	0.00	500.00
3630	-15660	-15659	-15725	-15726	MG	0.00	0.00	500.00
3630	-15792	-15791	-15857	-15858	MG	0.00	0.00	500.00
3630	-15857	-15924	-15925	-15858	MG	0.00	0.00	500.00
3630	-15397	-15396	-15462	-15463	MG	0.00	0.00	500.00
3630	-15463	-15462	-15528	-15529	MG	0.00	0.00	500.00
3630	-15529	-15528	-15594	-15595	MG	0.00	0.00	500.00
3630	-15595	-15594	-15660	-15661	MG	0.00	0.00	500.00
3630	-15661	-15660	-15726	-15727	MG	0.00	0.00	500.00
3630	-15727	-15726	-15792	-15793	MG	0.00	0.00	500.00
3630	-15266	-15265	-15331	-15332	MG	0.00	0.00	500.00
3630	-15332	-15331	-15397	-15398	MG	0.00	0.00	500.00
3630	-15398	-15397	-15463	-15464	MG	0.00	0.00	500.00
3630	-15464	-15463	-15529	-15530	MG	0.00	0.00	500.00
3630	-15530	-15529	-15595	-15596	MG	0.00	0.00	500.00
3630	-15596	-15595	-15661	-15662	MG	0.00	0.00	500.00
3630	-15662	-15661	-15727	-15728	MG	0.00	0.00	500.00
3630	-15728	-15727	-15793	-15794	MG	0.00	0.00	500.00

3630	-15794	-15793	-15859	-15860	MG	0.00	0.00	500.00
3630	-15860	-15859	-15926	-15927	MG	0.00	0.00	500.00
3630	-15465	-15464	-15530	-15531	MG	0.00	0.00	500.00
3630	-15597	-15596	-15662	-15663	MG	0.00	0.00	500.00
3630	-15663	-15662	-15728	-15729	MG	0.00	0.00	500.00
3630	-15729	-15728	-15794	-15795	MG	0.00	0.00	500.00
3630	-15795	-15794	-15860	-15861	MG	0.00	0.00	500.00
3630	-15861	-15860	-15927	-15928	MG	0.00	0.00	500.00
3630	-15268	-15267	-15333	-15334	MG	0.00	0.00	500.00
3630	-15334	-15333	-15399	-15400	MG	0.00	0.00	500.00
3630	-15400	-15399	-15465	-15466	MG	0.00	0.00	500.00
3630	-15598	-15597	-15663	-15664	MG	0.00	0.00	500.00
3630	-15401	-15400	-15466	-15467	MG	0.00	0.00	500.00
3630	-15467	-15466	-15532	-15533	MG	0.00	0.00	500.00
3630	-15533	-15532	-15598	-15599	MG	0.00	0.00	500.00
3630	-15599	-15598	-15664	-15665	MG	0.00	0.00	500.00
3630	-15665	-15664	-15730	-15731	MG	0.00	0.00	500.00
3630	-15270	-15269	-15335	-15336	MG	0.00	0.00	500.00
3630	-15336	-15335	-15401	-15402	MG	0.00	0.00	500.00
3630	-15402	-15401	-15467	-15468	MG	0.00	0.00	500.00
3630	-15468	-15467	-15533	-15534	MG	0.00	0.00	500.00
3630	-15534	-15533	-15599	-15600	MG	0.00	0.00	500.00
3630	-15732	-15731	-15797	-15798	MG	0.00	0.00	500.00
3630	-15798	-15797	-15863	-15864	MG	0.00	0.00	500.00
3630	-15864	-15863	-15930	-15931	MG	0.00	0.00	500.00
3630	-15920	-15919	-15985	-15986	MG	0.00	0.00	500.00
3630	-15986	-15985	-16051	-16052	MG	0.00	0.00	500.00
3630	-16052	-16051	-16117	-16118	MG	0.00	0.00	500.00
3630	-16118	-16117	-16183	-16184	MG	0.00	0.00	500.00
3630	-16184	-16183	-16249	-16250	MG	0.00	0.00	500.00
3630	-16250	-16249	-16315	-16316	MG	0.00	0.00	500.00
3630	-16316	-16315	-16381	-16382	MG	0.00	0.00	500.00
3630	-15921	-15920	-15986	-15987	MG	0.00	0.00	500.00
3630	-15987	-15986	-16052	-16053	MG	0.00	0.00	500.00
3630	-16053	-16052	-16118	-16119	MG	0.00	0.00	500.00
3630	-15734	-15733	-15801	-15800	MG	0.00	0.00	500.00
3630	-15735	-15736	-15802	-15801	MG	0.00	0.00	500.00
3630	-15922	-15921	-15987	-15988	MG	0.00	0.00	500.00
3630	-15988	-15987	-16053	-16054	MG	0.00	0.00	500.00
3630	-16120	-16119	-16185	-16186	MG	0.00	0.00	500.00
3630	-16186	-16185	-16251	-16252	MG	0.00	0.00	500.00
3630	-16252	-16251	-16317	-16318	MG	0.00	0.00	500.00
3630	-15338	-15339	-15405	-15404	MG	0.00	0.00	500.00
3630	-15142	-15143	-15207	-15206	MG	0.00	0.00	500.00
3630	-15923	-15922	-15988	-15989	MG	0.00	0.00	500.00
3630	-15989	-15988	-16054	-16055	MG	0.00	0.00	500.00
3630	-16187	-16186	-16252	-16253	MG	0.00	0.00	500.00
3630	-16253	-16252	-16318	-16319	MG	0.00	0.00	500.00
3630	-16319	-16318	-16384	-16385	MG	0.00	0.00	500.00
3630	-14940	-14941	-15007	-15006	MG	0.00	0.00	500.00
3630	-14742	-14743	-14809	-14808	MG	0.00	0.00	500.00
3630	-14807	-14808	-14874	-14873	MG	0.00	0.00	500.00
3630	-14808	-14809	-14875	-14874	MG	0.00	0.00	500.00
3630	-15990	-15989	-16055	-16056	MG	0.00	0.00	500.00
3630	-16056	-16055	-16121	-16122	MG	0.00	0.00	500.00
3630	-16122	-16121	-16187	-16188	MG	0.00	0.00	500.00
3630	-16188	-16187	-16253	-16254	MG	0.00	0.00	500.00
3630	-16254	-16253	-16319	-16320	MG	0.00	0.00	500.00
3630	-16320	-16319	-16385	-16386	MG	0.00	0.00	500.00
3630	-14340	-14341	-14407	-14406	MG	0.00	0.00	500.00
3630	-14406	-14407	-14473	-14472	MG	0.00	0.00	500.00
3630	-13595	-13661	-13662	-13596	MG	0.00	0.00	500.00
3630	-16057	-16056	-16122	-16123	MG	0.00	0.00	500.00
3630	-16189	-16188	-16254	-16255	MG	0.00	0.00	500.00
3630	-14006	-14007	-14078	-14077	MG	0.00	0.00	500.00
3630	-13803	-13804	-13870	-13869	MG	0.00	0.00	500.00
3630	-15926	-15925	-15991	-15992	MG	0.00	0.00	500.00
3630	-15992	-15991	-16057	-16058	MG	0.00	0.00	500.00
3630	-16058	-16057	-16123	-16124	MG	0.00	0.00	500.00
3630	-16124	-16123	-16189	-16190	MG	0.00	0.00	500.00
3630	-16190	-16189	-16255	-16256	MG	0.00	0.00	500.00
3630	-13397	-13398	-13470	-13469	MG	0.00	0.00	500.00
3630	-13468	-13469	-13539	-13538	MG	0.00	0.00	500.00
3630	-15927	-15926	-15992	-15993	MG	0.00	0.00	500.00
3630	-15993	-15992	-16058	-16059	MG	0.00	0.00	500.00
3630	-16059	-16058	-16124	-16125	MG	0.00	0.00	500.00
3630	-16125	-16124	-16190	-16191	MG	0.00	0.00	500.00
3630	-16191	-16190	-16256	-16257	MG	0.00	0.00	500.00
3630	-16257	-16256	-16322	-16323	MG	0.00	0.00	500.00

3630	-16323	-16322	-16388	-16389	MG	0.00	0.00	500.00
3630	-12974	-12975	-13054	-13053	MG	0.00	0.00	500.00
3630	-13052	-13053	-13085	-13128	MG	0.00	0.00	500.00
3630	-13053	-13054	-13117	-13085	MG	0.00	0.00	500.00
3630	-16126	-16125	-16191	-16192	MG	0.00	0.00	500.00
3630	-16192	-16191	-16257	-16258	MG	0.00	0.00	500.00
3630	-16258	-16257	-16323	-16324	MG	0.00	0.00	500.00
3630	-15995	-15994	-16060	-16061	MG	0.00	0.00	500.00
3630	-16061	-16060	-16126	-16127	MG	0.00	0.00	500.00
3630	-16127	-16126	-16192	-16193	MG	0.00	0.00	500.00
3630	-16325	-16324	-16390	-16391	MG	0.00	0.00	500.00
3630	-11867	-11885	-11972	-12010	MG	0.00	0.00	500.00
3630	-15930	-15929	-15995	-15996	MG	0.00	0.00	500.00
3630	-16128	-16127	-16193	-16194	MG	0.00	0.00	500.00
3630	-16260	-16259	-16325	-16326	MG	0.00	0.00	500.00
3630	-11547	-11548	-11618	-11617	MG	0.00	0.00	500.00
3630	-15931	-15930	-15996	-15997	MG	0.00	0.00	500.00
3630	-15997	-15996	-16062	-16063	MG	0.00	0.00	500.00
3630	-16063	-16062	-16128	-16129	MG	0.00	0.00	500.00
3630	-16129	-16128	-16194	-16195	MG	0.00	0.00	500.00
3630	-11136	-11137	-11203	-11202	MG	0.00	0.00	500.00
3630	-11137	-11138	-11204	-11203	MG	0.00	0.00	500.00
3630	-10929	-10930	-10995	-10994	MG	0.00	0.00	500.00
3630	-14594	-14593	-14661	-14662	MG	0.00	0.00	500.00
3630	-14662	-14661	-14727	-14728	MG	0.00	0.00	500.00
3630	-14728	-14727	-14793	-14794	MG	0.00	0.00	500.00
3630	-14794	-14793	-14859	-14860	MG	0.00	0.00	500.00
3630	-14860	-14859	-14925	-14926	MG	0.00	0.00	500.00
3630	-14926	-14925	-14991	-14992	MG	0.00	0.00	500.00
3630	-14992	-14991	-15057	-15058	MG	0.00	0.00	500.00
3630	-15192	-15191	-15258	-15259	MG	0.00	0.00	500.00
3630	-14595	-14594	-14662	-14663	MG	0.00	0.00	500.00
3630	-14663	-14662	-14728	-14729	MG	0.00	0.00	500.00
3630	-14729	-14728	-14794	-14795	MG	0.00	0.00	500.00
3630	-14795	-14794	-14860	-14861	MG	0.00	0.00	500.00
3630	-14861	-14860	-14926	-14927	MG	0.00	0.00	500.00
3630	-14927	-14926	-14992	-14993	MG	0.00	0.00	500.00
3630	-14993	-14992	-15058	-15059	MG	0.00	0.00	500.00
3630	-15059	-15058	-15124	-15135	MG	0.00	0.00	500.00
3630	-15135	-15124	-15192	-15193	MG	0.00	0.00	500.00
3630	-15193	-15192	-15259	-15260	MG	0.00	0.00	500.00
3630	-14596	-14595	-14663	-14664	MG	0.00	0.00	500.00
3630	-14664	-14663	-14729	-14730	MG	0.00	0.00	500.00
3630	-14796	-14795	-14861	-14862	MG	0.00	0.00	500.00
3630	-14862	-14861	-14927	-14928	MG	0.00	0.00	500.00
3630	-14928	-14927	-14993	-14994	MG	0.00	0.00	500.00
3630	-14994	-14993	-15059	-15060	MG	0.00	0.00	500.00
3630	-15060	-15059	-15135	-15125	MG	0.00	0.00	500.00
3630	-15125	-15135	-15193	-15194	MG	0.00	0.00	500.00
3630	-15194	-15193	-15260	-15261	MG	0.00	0.00	500.00
3630	-14597	-14596	-14664	-14665	MG	0.00	0.00	500.00
3630	-14665	-14664	-14730	-14731	MG	0.00	0.00	500.00
3630	-14731	-14730	-14796	-14797	MG	0.00	0.00	500.00
3630	-14797	-14796	-14862	-14863	MG	0.00	0.00	500.00
3630	-14863	-14862	-14928	-14929	MG	0.00	0.00	500.00
3630	-14929	-14928	-14994	-14995	MG	0.00	0.00	500.00
3630	-14995	-14994	-15060	-15061	MG	0.00	0.00	500.00
3630	-15061	-15060	-15125	-15136	MG	0.00	0.00	500.00
3630	-15136	-15125	-15194	-15195	MG	0.00	0.00	500.00
3630	-15195	-15194	-15261	-15262	MG	0.00	0.00	500.00
3630	-14598	-14597	-14665	-14666	MG	0.00	0.00	500.00
3630	-14666	-14665	-14731	-14732	MG	0.00	0.00	500.00
3630	-14732	-14731	-14797	-14798	MG	0.00	0.00	500.00
3630	-14798	-14797	-14863	-14864	MG	0.00	0.00	500.00
3630	-14864	-14863	-14929	-14930	MG	0.00	0.00	500.00
3630	-14930	-14929	-14995	-14996	MG	0.00	0.00	500.00
3630	-14996	-14995	-15061	-15062	MG	0.00	0.00	500.00
3630	-15062	-15061	-15136	-15096	MG	0.00	0.00	500.00
3630	-15096	-15136	-15195	-15196	MG	0.00	0.00	500.00
3630	-15196	-15195	-15262	-15263	MG	0.00	0.00	500.00
3630	-14599	-14598	-14666	-14667	MG	0.00	0.00	500.00
3630	-14667	-14666	-14732	-14733	MG	0.00	0.00	500.00
3630	-14733	-14732	-14798	-14799	MG	0.00	0.00	500.00
3630	-14799	-14798	-14864	-14865	MG	0.00	0.00	500.00
3630	-14865	-14864	-14930	-14931	MG	0.00	0.00	500.00
3630	-14931	-14930	-14996	-14997	MG	0.00	0.00	500.00
3630	-14997	-14996	-15062	-15063	MG	0.00	0.00	500.00
3630	-15063	-15062	-15096	-15126	MG	0.00	0.00	500.00
3630	-15126	-15096	-15196	-15197	MG	0.00	0.00	500.00

3630	-15197	-15196	-15263	-15264	MG	0.00	0.00	500.00
3630	-14600	-14599	-14667	-14668	MG	0.00	0.00	500.00
3630	-14668	-14667	-14733	-14734	MG	0.00	0.00	500.00
3630	-14734	-14733	-14799	-14800	MG	0.00	0.00	500.00
3630	-14800	-14799	-14865	-14866	MG	0.00	0.00	500.00
3630	-14866	-14865	-14931	-14932	MG	0.00	0.00	500.00
3630	-14932	-14931	-14997	-14998	MG	0.00	0.00	500.00
3630	-14998	-14997	-15063	-15064	MG	0.00	0.00	500.00
3630	-15064	-15063	-15126	-15137	MG	0.00	0.00	500.00
3630	-15137	-15126	-15197	-15198	MG	0.00	0.00	500.00
3630	-15198	-15197	-15264	-15265	MG	0.00	0.00	500.00
3630	-14601	-14600	-14668	-14669	MG	0.00	0.00	500.00
3630	-14669	-14668	-14734	-14735	MG	0.00	0.00	500.00
3630	-14735	-14734	-14800	-14801	MG	0.00	0.00	500.00
3630	-14801	-14800	-14866	-14867	MG	0.00	0.00	500.00
3630	-14867	-14866	-14932	-14933	MG	0.00	0.00	500.00
3630	-14933	-14932	-14998	-14999	MG	0.00	0.00	500.00
3630	-14999	-14998	-15064	-15065	MG	0.00	0.00	500.00
3630	-15065	-15064	-15137	-15138	MG	0.00	0.00	500.00
3630	-15138	-15137	-15198	-15199	MG	0.00	0.00	500.00
3630	-15199	-15198	-15265	-15266	MG	0.00	0.00	500.00
3630	-14602	-14601	-14669	-14670	MG	0.00	0.00	500.00
3630	-14670	-14669	-14735	-14736	MG	0.00	0.00	500.00
3630	-14736	-14735	-14801	-14802	MG	0.00	0.00	500.00
3630	-14802	-14801	-14867	-14868	MG	0.00	0.00	500.00
3630	-14868	-14867	-14933	-14934	MG	0.00	0.00	500.00
3630	-14934	-14933	-14999	-15000	MG	0.00	0.00	500.00
3630	-15000	-14999	-15065	-15066	MG	0.00	0.00	500.00
3630	-15066	-15065	-15138	-15139	MG	0.00	0.00	500.00
3630	-15139	-15138	-15199	-15200	MG	0.00	0.00	500.00
3630	-15200	-15199	-15266	-15267	MG	0.00	0.00	500.00
3630	-14603	-14602	-14670	-14671	MG	0.00	0.00	500.00
3630	-14671	-14670	-14736	-14737	MG	0.00	0.00	500.00
3630	-14737	-14736	-14802	-14803	MG	0.00	0.00	500.00
3630	-14803	-14802	-14868	-14869	MG	0.00	0.00	500.00
3630	-14869	-14868	-14934	-14935	MG	0.00	0.00	500.00
3630	-14935	-14934	-15000	-15001	MG	0.00	0.00	500.00
3630	-15001	-15000	-15066	-15067	MG	0.00	0.00	500.00
3630	-15067	-15066	-15139	-15127	MG	0.00	0.00	500.00
3630	-15127	-15139	-15200	-15201	MG	0.00	0.00	500.00
3630	-15201	-15200	-15267	-15268	MG	0.00	0.00	500.00
3630	-14604	-14603	-14671	-14672	MG	0.00	0.00	500.00
3630	-14672	-14671	-14737	-14738	MG	0.00	0.00	500.00
3630	-14738	-14737	-14803	-14804	MG	0.00	0.00	500.00
3630	-14804	-14803	-14869	-14870	MG	0.00	0.00	500.00
3630	-14870	-14869	-14935	-14936	MG	0.00	0.00	500.00
3630	-14936	-14935	-15001	-15002	MG	0.00	0.00	500.00
3630	-15002	-15001	-15067	-15068	MG	0.00	0.00	500.00
3630	-15068	-15067	-15127	-15128	MG	0.00	0.00	500.00
3630	-15128	-15127	-15201	-15202	MG	0.00	0.00	500.00
3630	-15202	-15201	-15268	-15269	MG	0.00	0.00	500.00
3630	-14605	-14604	-14672	-14673	MG	0.00	0.00	500.00
3630	-14673	-14672	-14738	-14739	MG	0.00	0.00	500.00
3630	-14739	-14738	-14804	-14805	MG	0.00	0.00	500.00
3630	-14805	-14804	-14870	-14871	MG	0.00	0.00	500.00
3630	-14871	-14870	-14936	-14937	MG	0.00	0.00	500.00
3630	-14937	-14936	-15002	-15003	MG	0.00	0.00	500.00
3630	-15003	-15002	-15068	-15069	MG	0.00	0.00	500.00
3630	-15069	-15068	-15128	-15129	MG	0.00	0.00	500.00
3630	-15129	-15128	-15202	-15203	MG	0.00	0.00	500.00
3630	-15203	-15202	-15269	-15270	MG	0.00	0.00	500.00
3630	-13934	-13933	-14003	-14004	MG	0.00	0.00	500.00
3630	-13933	-13932	-14002	-14003	MG	0.00	0.00	500.00
3630	-13932	-13931	-14001	-14002	MG	0.00	0.00	500.00
3630	-13931	-13930	-14000	-14001	MG	0.00	0.00	500.00
3630	-13930	-13929	-13999	-14000	MG	0.00	0.00	500.00
3630	-13929	-13928	-13998	-13999	MG	0.00	0.00	500.00
3630	-13928	-13927	-13997	-13998	MG	0.00	0.00	500.00
3630	-13927	-13926	-13996	-13997	MG	0.00	0.00	500.00
3630	-13926	-13925	-13995	-13996	MG	0.00	0.00	500.00
3630	-13925	-13924	-13994	-13995	MG	0.00	0.00	500.00
3630	-13924	-13923	-13993	-13994	MG	0.00	0.00	500.00
3630	-13923	-13922	-13992	-13993	MG	0.00	0.00	500.00
3630	-14004	-14003	-14075	-14076	MG	0.00	0.00	500.00
3630	-14003	-14002	-14074	-14075	MG	0.00	0.00	500.00
3630	-14002	-14001	-14073	-14074	MG	0.00	0.00	500.00
3630	-14001	-14000	-14072	-14073	MG	0.00	0.00	500.00
3630	-14000	-13999	-14071	-14072	MG	0.00	0.00	500.00
3630	-13999	-13998	-14070	-14071	MG	0.00	0.00	500.00

3630	-13998	-13997	-14062	-14070	MG	0.00	0.00	500.00
3630	-13997	-13996	-14061	-14062	MG	0.00	0.00	500.00
3630	-13996	-13995	-14060	-14061	MG	0.00	0.00	500.00
3630	-13995	-13994	-14059	-14060	MG	0.00	0.00	500.00
3630	-13994	-13993	-14058	-14059	MG	0.00	0.00	500.00
3630	-13993	-13992	-14057	-14058	MG	0.00	0.00	500.00
3630	-14076	-14075	-14138	-14139	MG	0.00	0.00	500.00
3630	-14075	-14074	-14137	-14138	MG	0.00	0.00	500.00
3630	-14074	-14073	-14136	-14137	MG	0.00	0.00	500.00
3630	-14073	-14072	-14135	-14136	MG	0.00	0.00	500.00
3630	-14072	-14071	-14134	-14135	MG	0.00	0.00	500.00
3630	-14071	-14070	-14133	-14134	MG	0.00	0.00	500.00
3630	-14070	-14062	-14132	-14133	MG	0.00	0.00	500.00
3630	-14062	-14061	-14131	-14132	MG	0.00	0.00	500.00
3630	-14061	-14060	-14130	-14131	MG	0.00	0.00	500.00
3630	-14060	-14059	-14129	-14130	MG	0.00	0.00	500.00
3630	-14059	-14058	-14128	-14129	MG	0.00	0.00	500.00
3630	-14058	-14057	-14127	-14128	MG	0.00	0.00	500.00
3630	-14139	-14138	-14204	-14205	MG	0.00	0.00	500.00
3630	-14138	-14137	-14203	-14204	MG	0.00	0.00	500.00
3630	-14137	-14136	-14202	-14203	MG	0.00	0.00	500.00
3630	-14136	-14135	-14201	-14202	MG	0.00	0.00	500.00
3630	-14135	-14134	-14200	-14201	MG	0.00	0.00	500.00
3630	-14134	-14133	-14199	-14200	MG	0.00	0.00	500.00
3630	-14133	-14132	-14198	-14199	MG	0.00	0.00	500.00
3630	-14132	-14131	-14197	-14198	MG	0.00	0.00	500.00
3630	-14131	-14130	-14196	-14197	MG	0.00	0.00	500.00
3630	-14130	-14129	-14195	-14196	MG	0.00	0.00	500.00
3630	-14129	-14128	-14194	-14195	MG	0.00	0.00	500.00
3630	-14128	-14127	-14193	-14194	MG	0.00	0.00	500.00
3630	-14205	-14204	-14270	-14271	MG	0.00	0.00	500.00
3630	-14204	-14203	-14269	-14270	MG	0.00	0.00	500.00
3630	-14203	-14202	-14268	-14269	MG	0.00	0.00	500.00
3630	-14202	-14201	-14267	-14268	MG	0.00	0.00	500.00
3630	-14201	-14200	-14266	-14267	MG	0.00	0.00	500.00
3630	-14200	-14199	-14265	-14266	MG	0.00	0.00	500.00
3630	-14199	-14198	-14264	-14265	MG	0.00	0.00	500.00
3630	-14198	-14197	-14263	-14264	MG	0.00	0.00	500.00
3630	-14197	-14196	-14262	-14263	MG	0.00	0.00	500.00
3630	-14196	-14195	-14261	-14262	MG	0.00	0.00	500.00
3630	-14195	-14194	-14260	-14261	MG	0.00	0.00	500.00
3630	-14194	-14193	-14259	-14260	MG	0.00	0.00	500.00
3630	-14271	-14270	-14336	-14337	MG	0.00	0.00	500.00
3630	-14270	-14269	-14335	-14336	MG	0.00	0.00	500.00
3630	-14269	-14268	-14334	-14335	MG	0.00	0.00	500.00
3630	-14268	-14267	-14333	-14334	MG	0.00	0.00	500.00
3630	-14267	-14266	-14332	-14333	MG	0.00	0.00	500.00
3630	-14266	-14265	-14331	-14332	MG	0.00	0.00	500.00
3630	-14265	-14264	-14330	-14331	MG	0.00	0.00	500.00
3630	-14264	-14263	-14329	-14330	MG	0.00	0.00	500.00
3630	-14263	-14262	-14328	-14329	MG	0.00	0.00	500.00
3630	-14262	-14261	-14327	-14328	MG	0.00	0.00	500.00
3630	-14261	-14260	-14326	-14327	MG	0.00	0.00	500.00
3630	-14260	-14259	-14325	-14326	MG	0.00	0.00	500.00
3630	-14337	-14336	-14402	-14403	MG	0.00	0.00	500.00
3630	-14336	-14335	-14401	-14402	MG	0.00	0.00	500.00
3630	-14335	-14334	-14400	-14401	MG	0.00	0.00	500.00
3630	-14334	-14333	-14399	-14400	MG	0.00	0.00	500.00
3630	-14333	-14332	-14398	-14399	MG	0.00	0.00	500.00
3630	-14332	-14331	-14397	-14398	MG	0.00	0.00	500.00
3630	-14331	-14330	-14396	-14397	MG	0.00	0.00	500.00
3630	-14330	-14329	-14395	-14396	MG	0.00	0.00	500.00
3630	-14329	-14328	-14394	-14395	MG	0.00	0.00	500.00
3630	-14328	-14327	-14393	-14394	MG	0.00	0.00	500.00
3630	-14327	-14326	-14392	-14393	MG	0.00	0.00	500.00
3630	-14326	-14325	-14391	-14392	MG	0.00	0.00	500.00
3630	-14403	-14402	-14468	-14469	MG	0.00	0.00	500.00
3630	-14402	-14401	-14467	-14468	MG	0.00	0.00	500.00
3630	-14401	-14400	-14466	-14467	MG	0.00	0.00	500.00
3630	-14400	-14399	-14465	-14466	MG	0.00	0.00	500.00
3630	-14399	-14398	-14464	-14465	MG	0.00	0.00	500.00
3630	-14398	-14397	-14463	-14464	MG	0.00	0.00	500.00
3630	-14397	-14396	-14462	-14463	MG	0.00	0.00	500.00
3630	-14396	-14395	-14461	-14462	MG	0.00	0.00	500.00
3630	-14395	-14394	-14460	-14461	MG	0.00	0.00	500.00
3630	-14394	-14393	-14459	-14460	MG	0.00	0.00	500.00
3630	-14393	-14392	-14458	-14459	MG	0.00	0.00	500.00
3630	-14392	-14391	-14457	-14458	MG	0.00	0.00	500.00
3630	-14469	-14468	-14534	-14535	MG	0.00	0.00	500.00

3630	-14468	-14467	-14533	-14534	MG	0.00	0.00	500.00
3630	-14467	-14466	-14532	-14533	MG	0.00	0.00	500.00
3630	-14466	-14465	-14531	-14532	MG	0.00	0.00	500.00
3630	-14465	-14464	-14530	-14531	MG	0.00	0.00	500.00
3630	-14464	-14463	-14529	-14530	MG	0.00	0.00	500.00
3630	-14463	-14462	-14528	-14529	MG	0.00	0.00	500.00
3630	-14462	-14461	-14527	-14528	MG	0.00	0.00	500.00
3630	-14461	-14460	-14526	-14527	MG	0.00	0.00	500.00
3630	-14460	-14459	-14525	-14526	MG	0.00	0.00	500.00
3630	-14459	-14458	-14524	-14525	MG	0.00	0.00	500.00
3630	-14458	-14457	-14523	-14524	MG	0.00	0.00	500.00
3630	-14535	-14534	-14604	-14605	MG	0.00	0.00	500.00
3630	-14534	-14533	-14603	-14604	MG	0.00	0.00	500.00
3630	-14533	-14532	-14602	-14603	MG	0.00	0.00	500.00
3630	-14532	-14531	-14601	-14602	MG	0.00	0.00	500.00
3630	-14531	-14530	-14600	-14601	MG	0.00	0.00	500.00
3630	-14530	-14529	-14599	-14600	MG	0.00	0.00	500.00
3630	-14529	-14528	-14598	-14599	MG	0.00	0.00	500.00
3630	-14528	-14527	-14597	-14598	MG	0.00	0.00	500.00
3630	-14527	-14526	-14596	-14597	MG	0.00	0.00	500.00
3630	-14526	-14525	-14595	-14596	MG	0.00	0.00	500.00
3630	-14525	-14524	-14594	-14595	MG	0.00	0.00	500.00
3630	-14524	-14523	-14593	-14594	MG	0.00	0.00	500.00
3630	-11806	-11861	-11862	-11807	MG	0.00	0.00	500.00
3630	-11861	-11994	-11995	-11862	MG	0.00	0.00	500.00
3630	-11994	-12095	-12019	-11995	MG	0.00	0.00	500.00
3630	-12095	-12143	-12157	-12019	MG	0.00	0.00	500.00
3630	-12143	-12222	-12223	-12157	MG	0.00	0.00	500.00
3630	-12222	-12294	-12295	-12223	MG	0.00	0.00	500.00
3630	-12294	-12362	-12363	-12295	MG	0.00	0.00	500.00
3630	-12362	-12428	-12429	-12363	MG	0.00	0.00	500.00
3630	-12428	-12508	-12509	-12429	MG	0.00	0.00	500.00
3630	-11741	-11807	-11808	-11742	MG	0.00	0.00	500.00
3630	-11807	-11862	-11876	-11808	MG	0.00	0.00	500.00
3630	-11862	-11995	-11947	-11876	MG	0.00	0.00	500.00
3630	-11995	-12019	-12060	-11947	MG	0.00	0.00	500.00
3630	-12019	-12157	-12158	-12060	MG	0.00	0.00	500.00
3630	-12157	-12223	-12224	-12158	MG	0.00	0.00	500.00
3630	-12223	-12295	-12296	-12224	MG	0.00	0.00	500.00
3630	-12295	-12363	-12364	-12296	MG	0.00	0.00	500.00
3630	-12363	-12429	-12430	-12364	MG	0.00	0.00	500.00
3630	-12429	-12509	-12510	-12430	MG	0.00	0.00	500.00
3630	-11742	-11808	-11809	-11743	MG	0.00	0.00	500.00
3630	-11808	-11876	-11863	-11809	MG	0.00	0.00	500.00
3630	-11876	-11947	-11937	-11863	MG	0.00	0.00	500.00
3630	-11947	-12060	-12034	-11937	MG	0.00	0.00	500.00
3630	-12060	-12158	-12108	-12034	MG	0.00	0.00	500.00
3630	-12158	-12224	-12225	-12108	MG	0.00	0.00	500.00
3630	-12224	-12296	-12297	-12225	MG	0.00	0.00	500.00
3630	-12296	-12364	-12365	-12297	MG	0.00	0.00	500.00
3630	-12364	-12430	-12431	-12365	MG	0.00	0.00	500.00
3630	-12430	-12510	-12511	-12431	MG	0.00	0.00	500.00
3630	-11743	-11809	-11810	-11744	MG	0.00	0.00	500.00
3630	-11809	-11863	-11877	-11810	MG	0.00	0.00	500.00
3630	-11863	-11937	-11967	-11877	MG	0.00	0.00	500.00
3630	-11937	-12034	-12061	-11967	MG	0.00	0.00	500.00
3630	-12034	-12108	-12109	-12061	MG	0.00	0.00	500.00
3630	-12108	-12225	-12226	-12109	MG	0.00	0.00	500.00
3630	-12225	-12297	-12298	-12226	MG	0.00	0.00	500.00
3630	-12297	-12365	-12366	-12298	MG	0.00	0.00	500.00
3630	-12365	-12431	-12432	-12366	MG	0.00	0.00	500.00
3630	-12431	-12511	-12512	-12432	MG	0.00	0.00	500.00
3630	-11744	-11810	-11811	-11745	MG	0.00	0.00	500.00
3630	-11810	-11877	-11864	-11811	MG	0.00	0.00	500.00
3630	-11877	-11967	-11938	-11864	MG	0.00	0.00	500.00
3630	-11967	-12061	-12020	-11938	MG	0.00	0.00	500.00
3630	-12061	-12109	-12110	-12020	MG	0.00	0.00	500.00
3630	-12109	-12226	-12227	-12110	MG	0.00	0.00	500.00
3630	-12226	-12298	-12299	-12227	MG	0.00	0.00	500.00
3630	-12298	-12366	-12367	-12299	MG	0.00	0.00	500.00
3630	-12366	-12432	-12433	-12367	MG	0.00	0.00	500.00
3630	-12432	-12512	-12513	-12433	MG	0.00	0.00	500.00
3630	-11745	-11811	-11812	-11746	MG	0.00	0.00	500.00
3630	-11811	-11864	-11865	-11812	MG	0.00	0.00	500.00
3630	-11864	-11938	-11996	-11865	MG	0.00	0.00	500.00
3630	-11938	-12020	-12062	-11996	MG	0.00	0.00	500.00
3630	-12020	-12110	-12159	-12062	MG	0.00	0.00	500.00
3630	-12110	-12227	-12228	-12159	MG	0.00	0.00	500.00
3630	-12227	-12299	-12300	-12228	MG	0.00	0.00	500.00



3630	-12299	-12367	-12368	-12300	MG	0.00	0.00	500.00
3630	-12367	-12433	-12434	-12368	MG	0.00	0.00	500.00
3630	-12433	-12513	-12525	-12434	MG	0.00	0.00	500.00
3630	-11746	-11812	-11813	-11747	MG	0.00	0.00	500.00
3630	-11812	-11865	-11878	-11813	MG	0.00	0.00	500.00
3630	-11865	-11996	-11948	-11878	MG	0.00	0.00	500.00
3630	-11996	-12062	-12063	-11948	MG	0.00	0.00	500.00
3630	-12062	-12159	-12170	-12063	MG	0.00	0.00	500.00
3630	-12159	-12228	-12229	-12170	MG	0.00	0.00	500.00
3630	-12228	-12300	-12301	-12229	MG	0.00	0.00	500.00
3630	-12300	-12368	-12369	-12301	MG	0.00	0.00	500.00
3630	-12368	-12434	-12435	-12369	MG	0.00	0.00	500.00
3630	-12434	-12525	-12514	-12435	MG	0.00	0.00	500.00
3630	-11747	-11813	-11814	-11748	MG	0.00	0.00	500.00
3630	-11813	-11878	-11866	-11814	MG	0.00	0.00	500.00
3630	-11878	-11948	-11968	-11866	MG	0.00	0.00	500.00
3630	-11948	-12063	-12035	-11968	MG	0.00	0.00	500.00
3630	-12063	-12170	-12144	-12035	MG	0.00	0.00	500.00
3630	-12170	-12229	-12230	-12144	MG	0.00	0.00	500.00
3630	-12229	-12301	-12302	-12230	MG	0.00	0.00	500.00
3630	-12301	-12369	-12370	-12302	MG	0.00	0.00	500.00
3630	-12369	-12435	-12436	-12370	MG	0.00	0.00	500.00
3630	-12435	-12514	-12515	-12436	MG	0.00	0.00	500.00
3630	-11748	-11814	-11815	-11749	MG	0.00	0.00	500.00
3630	-11814	-11866	-11879	-11815	MG	0.00	0.00	500.00
3630	-11866	-11968	-11969	-11879	MG	0.00	0.00	500.00
3630	-11968	-12035	-12096	-11969	MG	0.00	0.00	500.00
3630	-12035	-12144	-12185	-12096	MG	0.00	0.00	500.00
3630	-12144	-12230	-12231	-12185	MG	0.00	0.00	500.00
3630	-12230	-12302	-12303	-12231	MG	0.00	0.00	500.00
3630	-12302	-12370	-12371	-12303	MG	0.00	0.00	500.00
3630	-12370	-12436	-12437	-12371	MG	0.00	0.00	500.00
3630	-12436	-12515	-12516	-12437	MG	0.00	0.00	500.00
3630	-11749	-11815	-11816	-11750	MG	0.00	0.00	500.00
3630	-11815	-11879	-11880	-11816	MG	0.00	0.00	500.00
3630	-11879	-11969	-11997	-11880	MG	0.00	0.00	500.00
3630	-11969	-12096	-12021	-11997	MG	0.00	0.00	500.00
3630	-12096	-12185	-12111	-12021	MG	0.00	0.00	500.00
3630	-12185	-12231	-12232	-12111	MG	0.00	0.00	500.00
3630	-12231	-12303	-12304	-12232	MG	0.00	0.00	500.00
3630	-12303	-12371	-12372	-12304	MG	0.00	0.00	500.00
3630	-12371	-12437	-12438	-12372	MG	0.00	0.00	500.00
3630	-12437	-12516	-12526	-12438	MG	0.00	0.00	500.00
3630	-11750	-11816	-11817	-11751	MG	0.00	0.00	500.00
3630	-11816	-11880	-11881	-11817	MG	0.00	0.00	500.00
3630	-11880	-11997	-11970	-11881	MG	0.00	0.00	500.00
3630	-11997	-12021	-12064	-11970	MG	0.00	0.00	500.00
3630	-12021	-12111	-12112	-12064	MG	0.00	0.00	500.00
3630	-12111	-12232	-12233	-12112	MG	0.00	0.00	500.00
3630	-12232	-12304	-12305	-12233	MG	0.00	0.00	500.00
3630	-12304	-12372	-12373	-12305	MG	0.00	0.00	500.00
3630	-12372	-12438	-12439	-12373	MG	0.00	0.00	500.00
3630	-12438	-12526	-12527	-12439	MG	0.00	0.00	500.00
3630	-11751	-11817	-11818	-11752	MG	0.00	0.00	500.00
3630	-11817	-11881	-11882	-11818	MG	0.00	0.00	500.00
3630	-11881	-11970	-12009	-11882	MG	0.00	0.00	500.00
3630	-11970	-12064	-12097	-12009	MG	0.00	0.00	500.00
3630	-12064	-12112	-12160	-12097	MG	0.00	0.00	500.00
3630	-12112	-12233	-12234	-12160	MG	0.00	0.00	500.00
3630	-12233	-12305	-12306	-12234	MG	0.00	0.00	500.00
3630	-12305	-12373	-12374	-12306	MG	0.00	0.00	500.00
3630	-12373	-12439	-12440	-12374	MG	0.00	0.00	500.00
3630	-12439	-12527	-12547	-12440	MG	0.00	0.00	500.00
3630	-10277	-10338	-10339	-10278	MG	0.00	0.00	500.00
3630	-10338	-10416	-10417	-10339	MG	0.00	0.00	500.00
3630	-10416	-10486	-10487	-10417	MG	0.00	0.00	500.00
3630	-10486	-10581	-10551	-10487	MG	0.00	0.00	500.00
3630	-10581	-10681	-10693	-10551	MG	0.00	0.00	500.00
3630	-10681	-10772	-10773	-10693	MG	0.00	0.00	500.00
3630	-10772	-10837	-10838	-10773	MG	0.00	0.00	500.00
3630	-10837	-10912	-10913	-10838	MG	0.00	0.00	500.00
3630	-10912	-10979	-10980	-10913	MG	0.00	0.00	500.00
3630	-10979	-11060	-11061	-10980	MG	0.00	0.00	500.00
3630	-10278	-10339	-10340	-10279	MG	0.00	0.00	500.00
3630	-10339	-10417	-10418	-10340	MG	0.00	0.00	500.00
3630	-10417	-10487	-10488	-10418	MG	0.00	0.00	500.00
3630	-10487	-10551	-10540	-10488	MG	0.00	0.00	500.00
3630	-10551	-10693	-10682	-10540	MG	0.00	0.00	500.00
3630	-10693	-10773	-10774	-10682	MG	0.00	0.00	500.00

3630	-10773	-10838	-10839	-10774	MG	0.00	0.00	500.00
3630	-10838	-10913	-10918	-10839	MG	0.00	0.00	500.00
3630	-10913	-10980	-10981	-10918	MG	0.00	0.00	500.00
3630	-10980	-11061	-11062	-10981	MG	0.00	0.00	500.00
3630	-10279	-10340	-10341	-10280	MG	0.00	0.00	500.00
3630	-10340	-10418	-10419	-10341	MG	0.00	0.00	500.00
3630	-10418	-10488	-10489	-10419	MG	0.00	0.00	500.00
3630	-10488	-10540	-10582	-10489	MG	0.00	0.00	500.00
3630	-10540	-10682	-10683	-10582	MG	0.00	0.00	500.00
3630	-10682	-10774	-10775	-10683	MG	0.00	0.00	500.00
3630	-10774	-10839	-10853	-10775	MG	0.00	0.00	500.00
3630	-10918	-10981	-10982	-10919	MG	0.00	0.00	500.00
3630	-10981	-11062	-11038	-10982	MG	0.00	0.00	500.00
3630	-10280	-10341	-10342	-10281	MG	0.00	0.00	500.00
3630	-10341	-10419	-10420	-10342	MG	0.00	0.00	500.00
3630	-10419	-10489	-10490	-10420	MG	0.00	0.00	500.00
3630	-10489	-10582	-10583	-10490	MG	0.00	0.00	500.00
3630	-10582	-10683	-10694	-10583	MG	0.00	0.00	500.00
3630	-10683	-10775	-10776	-10694	MG	0.00	0.00	500.00
3630	-10775	-10853	-10807	-10776	MG	0.00	0.00	500.00
3630	-10853	-10919	-10920	-10807	MG	0.00	0.00	500.00
3630	-10919	-10982	-10983	-10920	MG	0.00	0.00	500.00
3630	-10982	-11038	-11063	-10983	MG	0.00	0.00	500.00
3630	-10281	-10342	-10343	-10282	MG	0.00	0.00	500.00
3630	-10342	-10420	-10435	-10343	MG	0.00	0.00	500.00
3630	-10420	-10490	-10491	-10435	MG	0.00	0.00	500.00
3630	-10490	-10583	-10584	-10491	MG	0.00	0.00	500.00
3630	-10583	-10694	-10695	-10584	MG	0.00	0.00	500.00
3630	-10694	-10776	-10777	-10695	MG	0.00	0.00	500.00
3630	-10776	-10807	-10840	-10777	MG	0.00	0.00	500.00
3630	-10807	-10920	-10921	-10840	MG	0.00	0.00	500.00
3630	-10920	-10983	-10984	-10921	MG	0.00	0.00	500.00
3630	-10983	-11063	-11050	-10984	MG	0.00	0.00	500.00
3630	-10282	-10343	-10344	-10283	MG	0.00	0.00	500.00
3630	-10343	-10435	-10421	-10344	MG	0.00	0.00	500.00
3630	-10435	-10491	-10492	-10421	MG	0.00	0.00	500.00
3630	-10491	-10584	-10585	-10492	MG	0.00	0.00	500.00
3630	-10584	-10695	-10696	-10585	MG	0.00	0.00	500.00
3630	-10695	-10777	-10778	-10696	MG	0.00	0.00	500.00
3630	-10777	-10840	-10854	-10778	MG	0.00	0.00	500.00
3630	-10840	-10921	-10892	-10854	MG	0.00	0.00	500.00
3630	-10921	-10984	-10985	-10892	MG	0.00	0.00	500.00
3630	-10984	-11050	-11051	-10985	MG	0.00	0.00	500.00
3630	-10283	-10344	-10357	-10284	MG	0.00	0.00	500.00
3630	-10344	-10421	-10436	-10357	MG	0.00	0.00	500.00
3630	-10421	-10492	-10493	-10436	MG	0.00	0.00	500.00
3630	-10492	-10585	-10586	-10493	MG	0.00	0.00	500.00
3630	-10585	-10696	-10684	-10586	MG	0.00	0.00	500.00
3630	-10696	-10778	-10779	-10684	MG	0.00	0.00	500.00
3630	-10778	-10854	-10855	-10779	MG	0.00	0.00	500.00
3630	-10854	-10892	-10922	-10855	MG	0.00	0.00	500.00
3630	-10892	-10985	-10986	-10922	MG	0.00	0.00	500.00
3630	-10985	-11051	-11064	-10986	MG	0.00	0.00	500.00
3630	-10284	-10357	-10345	-10285	MG	0.00	0.00	500.00
3630	-10357	-10436	-10437	-10345	MG	0.00	0.00	500.00
3630	-10436	-10493	-10494	-10437	MG	0.00	0.00	500.00
3630	-10493	-10586	-10610	-10494	MG	0.00	0.00	500.00
3630	-10586	-10684	-10697	-10610	MG	0.00	0.00	500.00
3630	-10684	-10779	-10780	-10697	MG	0.00	0.00	500.00
3630	-10779	-10855	-10856	-10780	MG	0.00	0.00	500.00
3630	-10855	-10922	-10923	-10856	MG	0.00	0.00	500.00
3630	-10922	-10986	-10987	-10923	MG	0.00	0.00	500.00
3630	-10986	-11064	-11065	-10987	MG	0.00	0.00	500.00
3630	-10285	-10345	-10346	-10286	MG	0.00	0.00	500.00
3630	-10345	-10437	-10438	-10346	MG	0.00	0.00	500.00
3630	-10437	-10494	-10495	-10438	MG	0.00	0.00	500.00
3630	-10610	-10697	-10698	-10552	MG	0.00	0.00	500.00
3630	-10697	-10780	-10781	-10698	MG	0.00	0.00	500.00
3630	-10780	-10856	-10841	-10781	MG	0.00	0.00	500.00
3630	-10856	-10923	-10924	-10841	MG	0.00	0.00	500.00
3630	-10923	-10987	-10988	-10924	MG	0.00	0.00	500.00
3630	-10987	-11065	-11066	-10988	MG	0.00	0.00	500.00
3630	-10286	-10346	-10347	-10287	MG	0.00	0.00	500.00
3630	-10346	-10438	-10439	-10347	MG	0.00	0.00	500.00
3630	-10438	-10495	-10496	-10439	MG	0.00	0.00	500.00
3630	-10495	-10552	-10631	-10496	MG	0.00	0.00	500.00
3630	-10552	-10698	-10699	-10631	MG	0.00	0.00	500.00
3630	-10698	-10781	-10782	-10699	MG	0.00	0.00	500.00
3630	-10781	-10841	-10857	-10782	MG	0.00	0.00	500.00

3630	-10841	-10924	-10925	-10857	MG	0.00	0.00	500.00
3630	-10924	-10988	-10989	-10925	MG	0.00	0.00	500.00
3630	-10988	-11066	-11067	-10989	MG	0.00	0.00	500.00
3630	-10287	-10347	-10358	-10288	MG	0.00	0.00	500.00
3630	-10347	-10439	-10422	-10358	MG	0.00	0.00	500.00
3630	-10439	-10496	-10497	-10422	MG	0.00	0.00	500.00
3630	-10496	-10631	-10587	-10497	MG	0.00	0.00	500.00
3630	-10631	-10699	-10685	-10587	MG	0.00	0.00	500.00
3630	-10699	-10782	-10783	-10685	MG	0.00	0.00	500.00
3630	-10782	-10857	-10808	-10783	MG	0.00	0.00	500.00
3630	-10857	-10925	-10926	-10808	MG	0.00	0.00	500.00
3630	-10925	-10989	-10990	-10926	MG	0.00	0.00	500.00
3630	-10989	-11067	-11068	-10990	MG	0.00	0.00	500.00
3630	-10288	-10358	-10359	3501	MG	0.00	0.00	500.00
3630	-10358	-10422	-10440	-10359	MG	0.00	0.00	500.00
3630	-10422	-10497	-10498	-10440	MG	0.00	0.00	500.00
3630	-10497	-10587	-10588	-10498	MG	0.00	0.00	500.00
3630	-10587	-10685	-10700	-10588	MG	0.00	0.00	500.00
3630	-10685	-10783	-10784	-10700	MG	0.00	0.00	500.00
3630	-10783	-10808	-10842	-10784	MG	0.00	0.00	500.00
3630	-10808	-10926	-10927	-10842	MG	0.00	0.00	500.00
3630	-10926	-10990	-10991	-10927	MG	0.00	0.00	500.00
3630	-10990	-11068	-11069	-10991	MG	0.00	0.00	500.00
3630	-13246	-13315	-13316	-13247	MG	0.00	0.00	500.00
3630	-13315	-13382	-13383	-13316	MG	0.00	0.00	500.00
3630	-13382	-13454	-13455	-13383	MG	0.00	0.00	500.00
3630	-13454	-13524	-13525	-13455	MG	0.00	0.00	500.00
3630	-13524	-13590	-13591	-13525	MG	0.00	0.00	500.00
3630	-13590	-13656	-13657	-13591	MG	0.00	0.00	500.00
3630	-13656	-13722	-13723	-13657	MG	0.00	0.00	500.00
3630	-13722	-13788	-13789	-13723	MG	0.00	0.00	500.00
3630	-13788	-13854	-13855	-13789	MG	0.00	0.00	500.00
3630	-13854	-13922	-13923	-13855	MG	0.00	0.00	500.00
3630	-13247	-13316	-13317	-13248	MG	0.00	0.00	500.00
3630	-13316	-13383	-13384	-13317	MG	0.00	0.00	500.00
3630	-13383	-13455	-13456	-13384	MG	0.00	0.00	500.00
3630	-13455	-13525	-13526	-13456	MG	0.00	0.00	500.00
3630	-13525	-13591	-13592	-13526	MG	0.00	0.00	500.00
3630	-13591	-13657	-13658	-13592	MG	0.00	0.00	500.00
3630	-13657	-13723	-13724	-13658	MG	0.00	0.00	500.00
3630	-13723	-13789	-13790	-13724	MG	0.00	0.00	500.00
3630	-13789	-13855	-13856	-13790	MG	0.00	0.00	500.00
3630	-13855	-13923	-13924	-13856	MG	0.00	0.00	500.00
3630	-13248	-13317	-13318	-13249	MG	0.00	0.00	500.00
3630	-13317	-13384	-13385	-13318	MG	0.00	0.00	500.00
3630	-13384	-13456	-13457	-13385	MG	0.00	0.00	500.00
3630	-13456	-13526	-13527	-13457	MG	0.00	0.00	500.00
3630	-13526	-13592	-13593	-13527	MG	0.00	0.00	500.00
3630	-13592	-13658	-13659	-13593	MG	0.00	0.00	500.00
3630	-13658	-13724	-13725	-13659	MG	0.00	0.00	500.00
3630	-13724	-13790	-13791	-13725	MG	0.00	0.00	500.00
3630	-13790	-13856	-13857	-13791	MG	0.00	0.00	500.00
3630	-13856	-13924	-13925	-13857	MG	0.00	0.00	500.00
3630	-13249	-13318	-13319	-13250	MG	0.00	0.00	500.00
3630	-13318	-13385	-13386	-13319	MG	0.00	0.00	500.00
3630	-13385	-13457	-13458	-13386	MG	0.00	0.00	500.00
3630	-13457	-13527	-13528	-13458	MG	0.00	0.00	500.00
3630	-13527	-13593	-13594	-13528	MG	0.00	0.00	500.00
3630	-13593	-13659	-13660	-13594	MG	0.00	0.00	500.00
3630	-13659	-13725	-13726	-13660	MG	0.00	0.00	500.00
3630	-13725	-13791	-13792	-13726	MG	0.00	0.00	500.00
3630	-13791	-13857	-13858	-13792	MG	0.00	0.00	500.00
3630	-13857	-13925	-13926	-13858	MG	0.00	0.00	500.00
3630	-13250	-13319	-13320	-13251	MG	0.00	0.00	500.00
3630	-13319	-13386	-13387	-13320	MG	0.00	0.00	500.00
3630	-13386	-13458	-13459	-13387	MG	0.00	0.00	500.00
3630	-13458	-13528	-13529	-13459	MG	0.00	0.00	500.00
3630	-13528	-13594	-13595	-13529	MG	0.00	0.00	500.00
3630	-13594	-13660	-13661	-13595	MG	0.00	0.00	500.00
3630	-13660	-13726	-13727	-13661	MG	0.00	0.00	500.00
3630	-13726	-13792	-13793	-13727	MG	0.00	0.00	500.00
3630	-13792	-13858	-13859	-13793	MG	0.00	0.00	500.00
3630	-13858	-13926	-13927	-13859	MG	0.00	0.00	500.00
3630	-13251	-13320	-13321	-13252	MG	0.00	0.00	500.00
3630	-13320	-13387	-13388	-13321	MG	0.00	0.00	500.00
3630	-13387	-13459	-13460	-13388	MG	0.00	0.00	500.00
3630	-13459	-13529	-13530	-13460	MG	0.00	0.00	500.00
3630	-13529	-13595	-13596	-13530	MG	0.00	0.00	500.00
3630	-13661	-13727	-13728	-13662	MG	0.00	0.00	500.00

3630	-13727	-13793	-13794	-13728	MG	0.00	0.00	500.00
3630	-13793	-13859	-13860	-13794	MG	0.00	0.00	500.00
3630	-13859	-13927	-13928	-13860	MG	0.00	0.00	500.00
3630	-13252	-13321	-13322	-13253	MG	0.00	0.00	500.00
3630	-13321	-13388	-13389	-13322	MG	0.00	0.00	500.00
3630	-13388	-13460	-13461	-13389	MG	0.00	0.00	500.00
3630	-13460	-13530	-13531	-13461	MG	0.00	0.00	500.00
3630	-13530	-13596	-13597	-13531	MG	0.00	0.00	500.00
3630	-13596	-13662	-13663	-13597	MG	0.00	0.00	500.00
3630	-13662	-13728	-13729	-13663	MG	0.00	0.00	500.00
3630	-13728	-13794	-13795	-13729	MG	0.00	0.00	500.00
3630	-13794	-13860	-13861	-13795	MG	0.00	0.00	500.00
3630	-13860	-13928	-13929	-13861	MG	0.00	0.00	500.00
3630	-13253	-13322	-13323	-13254	MG	0.00	0.00	500.00
3630	-13322	-13389	-13390	-13323	MG	0.00	0.00	500.00
3630	-13389	-13461	-13462	-13390	MG	0.00	0.00	500.00
3630	-13461	-13531	-13532	-13462	MG	0.00	0.00	500.00
3630	-13531	-13597	-13598	-13532	MG	0.00	0.00	500.00
3630	-13597	-13663	-13664	-13598	MG	0.00	0.00	500.00
3630	-13663	-13729	-13730	-13664	MG	0.00	0.00	500.00
3630	-13729	-13795	-13796	-13730	MG	0.00	0.00	500.00
3630	-13795	-13861	-13862	-13796	MG	0.00	0.00	500.00
3630	-13861	-13929	-13930	-13862	MG	0.00	0.00	500.00
3630	-13254	-13323	-13324	-13255	MG	0.00	0.00	500.00
3630	-13323	-13390	-13391	-13324	MG	0.00	0.00	500.00
3630	-13390	-13462	-13463	-13391	MG	0.00	0.00	500.00
3630	-13462	-13532	-13533	-13463	MG	0.00	0.00	500.00
3630	-13532	-13598	-13599	-13533	MG	0.00	0.00	500.00
3630	-13598	-13664	-13665	-13599	MG	0.00	0.00	500.00
3630	-13664	-13730	-13731	-13665	MG	0.00	0.00	500.00
3630	-13730	-13796	-13797	-13731	MG	0.00	0.00	500.00
3630	-13796	-13862	-13863	-13797	MG	0.00	0.00	500.00
3630	-13862	-13930	-13931	-13863	MG	0.00	0.00	500.00
3630	-13255	-13324	-13325	-13256	MG	0.00	0.00	500.00
3630	-13324	-13391	-13392	-13325	MG	0.00	0.00	500.00
3630	-13391	-13463	-13464	-13392	MG	0.00	0.00	500.00
3630	-13463	-13533	-13534	-13464	MG	0.00	0.00	500.00
3630	-13533	-13599	-13600	-13534	MG	0.00	0.00	500.00
3630	-13599	-13665	-13666	-13600	MG	0.00	0.00	500.00
3630	-13665	-13731	-13732	-13666	MG	0.00	0.00	500.00
3630	-13731	-13797	-13798	-13732	MG	0.00	0.00	500.00
3630	-13797	-13863	-13864	-13798	MG	0.00	0.00	500.00
3630	-13863	-13931	-13932	-13864	MG	0.00	0.00	500.00
3630	-13256	-13325	-13326	-13257	MG	0.00	0.00	500.00
3630	-13325	-13392	-13393	-13326	MG	0.00	0.00	500.00
3630	-13392	-13464	-13465	-13393	MG	0.00	0.00	500.00
3630	-13464	-13534	-13535	-13465	MG	0.00	0.00	500.00
3630	-13534	-13600	-13601	-13535	MG	0.00	0.00	500.00
3630	-13600	-13666	-13667	-13601	MG	0.00	0.00	500.00
3630	-13666	-13732	-13733	-13667	MG	0.00	0.00	500.00
3630	-13732	-13798	-13799	-13733	MG	0.00	0.00	500.00
3630	-13798	-13864	-13865	-13799	MG	0.00	0.00	500.00
3630	-13864	-13932	-13933	-13865	MG	0.00	0.00	500.00
3630	-13257	-13326	-13327	-13258	MG	0.00	0.00	500.00
3630	-13326	-13393	-13394	-13327	MG	0.00	0.00	500.00
3630	-13393	-13465	-13466	-13394	MG	0.00	0.00	500.00
3630	-13465	-13535	-13536	-13466	MG	0.00	0.00	500.00
3630	-13535	-13601	-13602	-13536	MG	0.00	0.00	500.00
3630	-13601	-13667	-13668	-13602	MG	0.00	0.00	500.00
3630	-13667	-13733	-13734	-13668	MG	0.00	0.00	500.00
3630	-13733	-13799	-13800	-13734	MG	0.00	0.00	500.00
3630	-13799	-13865	-13866	-13800	MG	0.00	0.00	500.00
3630	-13865	-13933	-13934	-13866	MG	0.00	0.00	500.00
3630	-12508	-12592	-12593	-12509	MG	0.00	0.00	500.00
3630	-12592	-12666	-12667	-12593	MG	0.00	0.00	500.00
3630	-12666	-12737	-12738	-12667	MG	0.00	0.00	500.00
3630	-12737	-12807	-12808	-12738	MG	0.00	0.00	500.00
3630	-12807	-12877	-12878	-12808	MG	0.00	0.00	500.00
3630	-12877	-12954	-12955	-12878	MG	0.00	0.00	500.00
3630	-12954	-13038	-13039	-12955	MG	0.00	0.00	500.00
3630	-13038	-13105	-13106	-13039	MG	0.00	0.00	500.00
3630	-13105	-13183	-13184	-13106	MG	0.00	0.00	500.00
3630	-13183	-13246	-13247	-13184	MG	0.00	0.00	500.00
3630	-12509	-12593	-12594	-12510	MG	0.00	0.00	500.00
3630	-12593	-12667	-12668	-12594	MG	0.00	0.00	500.00
3630	-12667	-12738	-12739	-12668	MG	0.00	0.00	500.00
3630	-12738	-12808	-12809	-12739	MG	0.00	0.00	500.00
3630	-12808	-12878	-12879	-12809	MG	0.00	0.00	500.00
3630	-12878	-12955	-12956	-12879	MG	0.00	0.00	500.00

3630	-12955	-13039	-13040	-12956	MG	0.00	0.00	500.00
3630	-13039	-13106	-13107	-13040	MG	0.00	0.00	500.00
3630	-13106	-13184	-13185	-13107	MG	0.00	0.00	500.00
3630	-13184	-13247	-13248	-13185	MG	0.00	0.00	500.00
3630	-12510	-12594	-12595	-12511	MG	0.00	0.00	500.00
3630	-12594	-12668	-12669	-12595	MG	0.00	0.00	500.00
3630	-12668	-12739	-12740	-12669	MG	0.00	0.00	500.00
3630	-12739	-12809	-12810	-12740	MG	0.00	0.00	500.00
3630	-12809	-12879	-12880	-12810	MG	0.00	0.00	500.00
3630	-12879	-12956	-12957	-12880	MG	0.00	0.00	500.00
3630	-12956	-13040	-13041	-12957	MG	0.00	0.00	500.00
3630	-13040	-13107	-13108	-13041	MG	0.00	0.00	500.00
3630	-13107	-13185	-13167	-13108	MG	0.00	0.00	500.00
3630	-13185	-13248	-13249	-13167	MG	0.00	0.00	500.00
3630	-12511	-12595	-12596	-12512	MG	0.00	0.00	500.00
3630	-12595	-12669	-12670	-12596	MG	0.00	0.00	500.00
3630	-12669	-12740	-12741	-12670	MG	0.00	0.00	500.00
3630	-12740	-12810	-12811	-12741	MG	0.00	0.00	500.00
3630	-12810	-12880	-12881	-12811	MG	0.00	0.00	500.00
3630	-12880	-12957	-12968	-12881	MG	0.00	0.00	500.00
3630	-12957	-13041	-13042	-12968	MG	0.00	0.00	500.00
3630	-13041	-13108	-13084	-13042	MG	0.00	0.00	500.00
3630	-13108	-13167	-13186	-13084	MG	0.00	0.00	500.00
3630	-13167	-13249	-13250	-13186	MG	0.00	0.00	500.00
3630	-12512	-12596	-12597	-12513	MG	0.00	0.00	500.00
3630	-12596	-12670	-12671	-12597	MG	0.00	0.00	500.00
3630	-12670	-12741	-12742	-12671	MG	0.00	0.00	500.00
3630	-12741	-12811	-12812	-12742	MG	0.00	0.00	500.00
3630	-12811	-12881	-12882	-12812	MG	0.00	0.00	500.00
3630	-12881	-12968	-12969	-12882	MG	0.00	0.00	500.00
3630	-12968	-13042	-13043	-12969	MG	0.00	0.00	500.00
3630	-13042	-13084	-13109	-13043	MG	0.00	0.00	500.00
3630	-13084	-13186	-13168	-13109	MG	0.00	0.00	500.00
3630	-13186	-13250	-13251	-13168	MG	0.00	0.00	500.00
3630	-12513	-12597	-12598	-12525	MG	0.00	0.00	500.00
3630	-12597	-12671	-12672	-12598	MG	0.00	0.00	500.00
3630	-12671	-12742	-12743	-12672	MG	0.00	0.00	500.00
3630	-12742	-12812	-12813	-12743	MG	0.00	0.00	500.00
3630	-12812	-12882	-12883	-12813	MG	0.00	0.00	500.00
3630	-12882	-12969	-12958	-12883	MG	0.00	0.00	500.00
3630	-12969	-13043	-13044	-12958	MG	0.00	0.00	500.00
3630	-13043	-13109	-13110	-13044	MG	0.00	0.00	500.00
3630	-13109	-13168	-13187	-13110	MG	0.00	0.00	500.00
3630	-13168	-13251	-13252	-13187	MG	0.00	0.00	500.00
3630	-12598	-12672	-12673	-12599	MG	0.00	0.00	500.00
3630	-12672	-12743	-12744	-12673	MG	0.00	0.00	500.00
3630	-12743	-12813	-12814	-12744	MG	0.00	0.00	500.00
3630	-12813	-12883	-12884	-12814	MG	0.00	0.00	500.00
3630	-12883	-12958	-12959	-12884	MG	0.00	0.00	500.00
3630	-12958	-13044	-13045	-12959	MG	0.00	0.00	500.00
3630	-13044	-13110	-13111	-13045	MG	0.00	0.00	500.00
3630	-13110	-13187	-13188	-13111	MG	0.00	0.00	500.00
3630	-13187	-13252	-13253	-13188	MG	0.00	0.00	500.00
3630	-12514	-12599	-12600	-12515	MG	0.00	0.00	500.00
3630	-12599	-12673	-12674	-12600	MG	0.00	0.00	500.00
3630	-12673	-12744	-12745	-12674	MG	0.00	0.00	500.00
3630	-12744	-12814	-12815	-12745	MG	0.00	0.00	500.00
3630	-12814	-12884	-12885	-12815	MG	0.00	0.00	500.00
3630	-12884	-12959	-12960	-12885	MG	0.00	0.00	500.00
3630	-12959	-13045	-13046	-12960	MG	0.00	0.00	500.00
3630	-13045	-13111	-13112	-13046	MG	0.00	0.00	500.00
3630	-13111	-13188	-13189	-13112	MG	0.00	0.00	500.00
3630	-13188	-13253	-13254	-13189	MG	0.00	0.00	500.00
3630	-12515	-12600	-12601	-12516	MG	0.00	0.00	500.00
3630	-12600	-12674	-12675	-12601	MG	0.00	0.00	500.00
3630	-12674	-12745	-12746	-12675	MG	0.00	0.00	500.00
3630	-12745	-12815	-12816	-12746	MG	0.00	0.00	500.00
3630	-12815	-12885	-12886	-12816	MG	0.00	0.00	500.00
3630	-12885	-12960	-12970	-12886	MG	0.00	0.00	500.00
3630	-12960	-13046	-13047	-12970	MG	0.00	0.00	500.00
3630	-13046	-13112	-13113	-13047	MG	0.00	0.00	500.00
3630	-13112	-13189	-13190	-13113	MG	0.00	0.00	500.00
3630	-13189	-13254	-13255	-13190	MG	0.00	0.00	500.00
3630	-12516	-12601	-12602	-12526	MG	0.00	0.00	500.00
3630	-12601	-12675	-12676	-12602	MG	0.00	0.00	500.00
3630	-12675	-12746	-12747	-12676	MG	0.00	0.00	500.00
3630	-12746	-12816	-12817	-12747	MG	0.00	0.00	500.00
3630	-12816	-12886	-12887	-12817	MG	0.00	0.00	500.00
3630	-12886	-12970	-12961	-12887	MG	0.00	0.00	500.00

3630	-12970	-13047	-13048	-12961	MG	0.00	0.00	500.00
3630	-13047	-13113	-13114	-13048	MG	0.00	0.00	500.00
3630	-13113	-13190	-13169	-13114	MG	0.00	0.00	500.00
3630	-13190	-13255	-13256	-13169	MG	0.00	0.00	500.00
3630	-12526	-12602	-12603	-12527	MG	0.00	0.00	500.00
3630	-12602	-12676	-12677	-12603	MG	0.00	0.00	500.00
3630	-12676	-12747	-12748	-12677	MG	0.00	0.00	500.00
3630	-12747	-12817	-12818	-12748	MG	0.00	0.00	500.00
3630	-12817	-12887	-12888	-12818	MG	0.00	0.00	500.00
3630	-12887	-12961	-12971	-12888	MG	0.00	0.00	500.00
3630	-12961	-13048	-13049	-12971	MG	0.00	0.00	500.00
3630	-13048	-13114	-13115	-13049	MG	0.00	0.00	500.00
3630	-13114	-13169	-13191	-13115	MG	0.00	0.00	500.00
3630	-13169	-13256	-13257	-13191	MG	0.00	0.00	500.00
3630	-12527	-12603	-12604	-12547	MG	0.00	0.00	500.00
3630	-12603	-12677	-12678	-12604	MG	0.00	0.00	500.00
3630	-12677	-12748	-12749	-12678	MG	0.00	0.00	500.00
3630	-12748	-12818	-12819	-12749	MG	0.00	0.00	500.00
3630	-12818	-12888	-12889	-12819	MG	0.00	0.00	500.00
3630	-12888	-12971	-12972	-12889	MG	0.00	0.00	500.00
3630	-12971	-13049	-13050	-12972	MG	0.00	0.00	500.00
3630	-13049	-13115	-13127	-13050	MG	0.00	0.00	500.00
3630	-13115	-13191	-13192	-13127	MG	0.00	0.00	500.00
3630	-13191	-13257	-13258	-13192	MG	0.00	0.00	500.00
3630	-11060	-11122	-11123	-11061	MG	0.00	0.00	500.00
3630	-11122	-11188	-11189	-11123	MG	0.00	0.00	500.00
3630	-11188	-11254	-11255	-11189	MG	0.00	0.00	500.00
3630	-11254	-11326	-11327	-11255	MG	0.00	0.00	500.00
3630	-11326	-11392	-11393	-11327	MG	0.00	0.00	500.00
3630	-11392	-11462	-11463	-11393	MG	0.00	0.00	500.00
3630	-11462	-11532	-11533	-11463	MG	0.00	0.00	500.00
3630	-11532	-11602	-11603	-11533	MG	0.00	0.00	500.00
3630	-11602	-11676	-11677	-11603	MG	0.00	0.00	500.00
3630	-11676	-11740	-11741	-11677	MG	0.00	0.00	500.00
3630	-11061	-11123	-11124	-11062	MG	0.00	0.00	500.00
3630	-11123	-11189	-11190	-11124	MG	0.00	0.00	500.00
3630	-11189	-11255	-11256	-11190	MG	0.00	0.00	500.00
3630	-11255	-11327	-11328	-11256	MG	0.00	0.00	500.00
3630	-11327	-11393	-11394	-11328	MG	0.00	0.00	500.00
3630	-11393	-11463	-11464	-11394	MG	0.00	0.00	500.00
3630	-11463	-11533	-11534	-11464	MG	0.00	0.00	500.00
3630	-11533	-11603	-11604	-11534	MG	0.00	0.00	500.00
3630	-11603	-11677	-11663	-11604	MG	0.00	0.00	500.00
3630	-11677	-11741	-11742	-11663	MG	0.00	0.00	500.00
3630	-11062	-11124	-11125	-11038	MG	0.00	0.00	500.00
3630	-11124	-11190	-11191	-11125	MG	0.00	0.00	500.00
3630	-11190	-11256	-11257	-11191	MG	0.00	0.00	500.00
3630	-11256	-11328	-11329	-11257	MG	0.00	0.00	500.00
3630	-11328	-11394	-11395	-11329	MG	0.00	0.00	500.00
3630	-11394	-11464	-11465	-11395	MG	0.00	0.00	500.00
3630	-11464	-11534	-11535	-11465	MG	0.00	0.00	500.00
3630	-11534	-11604	-11605	-11535	MG	0.00	0.00	500.00
3630	-11604	-11663	-11664	-11605	MG	0.00	0.00	500.00
3630	-11663	-11742	-11743	-11664	MG	0.00	0.00	500.00
3630	-11038	-11125	-11126	-11063	MG	0.00	0.00	500.00
3630	-11125	-11191	-11192	-11126	MG	0.00	0.00	500.00
3630	-11191	-11257	-11258	-11192	MG	0.00	0.00	500.00
3630	-11257	-11329	-11330	-11258	MG	0.00	0.00	500.00
3630	-11329	-11395	-11396	-11330	MG	0.00	0.00	500.00
3630	-11395	-11465	-11466	-11396	MG	0.00	0.00	500.00
3630	-11465	-11535	-11536	-11466	MG	0.00	0.00	500.00
3630	-11535	-11605	-11606	-11536	MG	0.00	0.00	500.00
3630	-11605	-11664	-11678	-11606	MG	0.00	0.00	500.00
3630	-11664	-11743	-11744	-11678	MG	0.00	0.00	500.00
3630	-11063	-11126	-11127	-11050	MG	0.00	0.00	500.00
3630	-11126	-11192	-11193	-11127	MG	0.00	0.00	500.00
3630	-11192	-11258	-11259	-11193	MG	0.00	0.00	500.00
3630	-11258	-11330	-11331	-11259	MG	0.00	0.00	500.00
3630	-11330	-11396	-11397	-11331	MG	0.00	0.00	500.00
3630	-11396	-11466	-11467	-11397	MG	0.00	0.00	500.00
3630	-11466	-11536	-11537	-11467	MG	0.00	0.00	500.00
3630	-11536	-11606	-11607	-11537	MG	0.00	0.00	500.00
3630	-11606	-11678	-11665	-11607	MG	0.00	0.00	500.00
3630	-11678	-11744	-11745	-11665	MG	0.00	0.00	500.00
3630	-11050	-11127	-11128	-11051	MG	0.00	0.00	500.00
3630	-11127	-11193	-11194	-11128	MG	0.00	0.00	500.00
3630	-11193	-11259	-11260	-11194	MG	0.00	0.00	500.00
3630	-11259	-11331	-11332	-11260	MG	0.00	0.00	500.00
3630	-11331	-11397	-11398	-11332	MG	0.00	0.00	500.00

3630	-11397	-11467	-11468	-11398	MG	0.00	0.00	500.00
3630	-11467	-11537	-11538	-11468	MG	0.00	0.00	500.00
3630	-11537	-11607	-11608	-11538	MG	0.00	0.00	500.00
3630	-11607	-11665	-11666	-11608	MG	0.00	0.00	500.00
3630	-11665	-11745	-11746	-11666	MG	0.00	0.00	500.00
3630	-11051	-11128	-11129	-11064	MG	0.00	0.00	500.00
3630	-11128	-11194	-11195	-11129	MG	0.00	0.00	500.00
3630	-11194	-11260	-11261	-11195	MG	0.00	0.00	500.00
3630	-11260	-11332	-11333	-11261	MG	0.00	0.00	500.00
3630	-11332	-11398	-11399	-11333	MG	0.00	0.00	500.00
3630	-11398	-11468	-11469	-11399	MG	0.00	0.00	500.00
3630	-11468	-11538	-11539	-11469	MG	0.00	0.00	500.00
3630	-11538	-11608	-11609	-11539	MG	0.00	0.00	500.00
3630	-11608	-11666	-11667	-11609	MG	0.00	0.00	500.00
3630	-11666	-11746	-11747	-11679	MG	0.00	0.00	500.00
3630	-11064	-11129	-11130	-11065	MG	0.00	0.00	500.00
3630	-11129	-11195	-11196	-11130	MG	0.00	0.00	500.00
3630	-11195	-11261	-11262	-11196	MG	0.00	0.00	500.00
3630	-11261	-11333	-11334	-11262	MG	0.00	0.00	500.00
3630	-11333	-11399	-11400	-11334	MG	0.00	0.00	500.00
3630	-11399	-11469	-11470	-11400	MG	0.00	0.00	500.00
3630	-11469	-11539	-11540	-11470	MG	0.00	0.00	500.00
3630	-11539	-11609	-11610	-11540	MG	0.00	0.00	500.00
3630	-11609	-11679	-11667	-11610	MG	0.00	0.00	500.00
3630	-11679	-11747	-11748	-11667	MG	0.00	0.00	500.00
3630	-11065	-11130	-11131	-11066	MG	0.00	0.00	500.00
3630	-11130	-11196	-11197	-11131	MG	0.00	0.00	500.00
3630	-11196	-11262	-11263	-11197	MG	0.00	0.00	500.00
3630	-11262	-11334	-11335	-11263	MG	0.00	0.00	500.00
3630	-11334	-11400	-11401	-11335	MG	0.00	0.00	500.00
3630	-11400	-11470	-11471	-11401	MG	0.00	0.00	500.00
3630	-11470	-11540	-11541	-11471	MG	0.00	0.00	500.00
3630	-11540	-11610	-11611	-11541	MG	0.00	0.00	500.00
3630	-11610	-11667	-11680	-11611	MG	0.00	0.00	500.00
3630	-11667	-11748	-11749	-11680	MG	0.00	0.00	500.00
3630	-11066	-11131	-11132	-11067	MG	0.00	0.00	500.00
3630	-11131	-11197	-11198	-11132	MG	0.00	0.00	500.00
3630	-11197	-11263	-11264	-11198	MG	0.00	0.00	500.00
3630	-11263	-11335	-11336	-11264	MG	0.00	0.00	500.00
3630	-11335	-11401	-11402	-11336	MG	0.00	0.00	500.00
3630	-11401	-11471	-11472	-11402	MG	0.00	0.00	500.00
3630	-11471	-11541	-11542	-11472	MG	0.00	0.00	500.00
3630	-11541	-11611	-11612	-11542	MG	0.00	0.00	500.00
3630	-11611	-11680	-11681	-11612	MG	0.00	0.00	500.00
3630	-11680	-11749	-11750	-11681	MG	0.00	0.00	500.00
3630	-11067	-11132	-11133	-11068	MG	0.00	0.00	500.00
3630	-11132	-11198	-11199	-11133	MG	0.00	0.00	500.00
3630	-11198	-11264	-11265	-11199	MG	0.00	0.00	500.00
3630	-11264	-11336	-11337	-11265	MG	0.00	0.00	500.00
3630	-11336	-11402	-11403	-11337	MG	0.00	0.00	500.00
3630	-11402	-11472	-11473	-11403	MG	0.00	0.00	500.00
3630	-11472	-11542	-11543	-11473	MG	0.00	0.00	500.00
3630	-11542	-11612	-11613	-11543	MG	0.00	0.00	500.00
3630	-11612	-11681	-11685	-11613	MG	0.00	0.00	500.00
3630	-11681	-11750	-11751	-11685	MG	0.00	0.00	500.00
3630	-11068	-11133	-11134	-11069	MG	0.00	0.00	500.00
3630	-11199	-11265	-11266	-11200	MG	0.00	0.00	500.00
3630	-11265	-11337	-11338	-11266	MG	0.00	0.00	500.00
3630	-11337	-11403	-11404	-11338	MG	0.00	0.00	500.00
3630	-14006	-14005	-14063	-14077	MG	0.00	0.00	500.00
3630	-14005	-14004	-14076	-14063	MG	0.00	0.00	500.00
3630	-14077	-14063	-14140	-14141	MG	0.00	0.00	500.00
3630	-14063	-14076	-14139	-14140	MG	0.00	0.00	500.00
3630	-14141	-14140	-14206	-14207	MG	0.00	0.00	500.00
3630	-14140	-14139	-14205	-14206	MG	0.00	0.00	500.00
3630	-14207	-14206	-14272	-14273	MG	0.00	0.00	500.00
3630	-14273	-14272	-14338	-14339	MG	0.00	0.00	500.00
3630	-14339	-14338	-14404	-14405	MG	0.00	0.00	500.00
3630	-14338	-14337	-14403	-14404	MG	0.00	0.00	500.00
3630	-14405	-14404	-14470	-14471	MG	0.00	0.00	500.00
3630	-15271	-15270	-15336	-15337	MG	0.00	0.00	500.00
3630	-15337	-15336	-15402	-15403	MG	0.00	0.00	500.00
3630	-15403	-15402	-15468	-15469	MG	0.00	0.00	500.00
3630	-13935	-13934	-14004	-14005	MG	0.00	0.00	500.00
3630	-14206	-14205	-14271	-14272	MG	0.00	0.00	500.00
3630	-15535	-15534	-15600	-15601	MG	0.00	0.00	500.00
3630	-15733	-15732	-15798	-15799	MG	0.00	0.00	500.00
3630	-15799	-15798	-15864	-15865	MG	0.00	0.00	500.00
3630	-15865	-15864	-15931	-15932	MG	0.00	0.00	500.00

3630	-14471	-14470	-14536	-14537	MG	0.00	0.00	500.00
3630	-14404	-14403	-14469	-14470	MG	0.00	0.00	500.00
3630	-15272	-15271	-15337	-15338	MG	0.00	0.00	500.00
3630	-15667	-15666	-15732	-15733	MG	0.00	0.00	500.00
3630	-14536	-14535	-14605	-14606	MG	0.00	0.00	500.00
3630	-14272	-14271	-14337	-14338	MG	0.00	0.00	500.00
3630	-14537	-14536	-14606	-14607	MG	0.00	0.00	500.00
3630	-15601	-15600	-15666	-15667	MG	0.00	0.00	500.00
3630	-15469	-15468	-15534	-15535	MG	0.00	0.00	500.00
3630	-14470	-14469	-14535	-14536	MG	0.00	0.00	500.00
3631	-9614	-9346	-10319	-10318	MG	0.00	0.00	500.00
3631	-9346	-8957	-10320	-10319	MG	0.00	0.00	500.00
3631	-10317	-9614	-10318	-10374	MG	0.00	0.00	500.00
3634	-16591	-12327	-12915	-16590	MG	0.00	0.00	500.00
3634	-13887	-11014	-10725	-16592	MG	0.00	0.00	500.00
3634	-16589	-16590	-12915	-10064	MG	0.00	0.00	500.00
3634	-12327	-9431	-10064	-12915	MG	0.00	0.00	500.00
3634	-10725	-12327	-16591	-16592	MG	0.00	0.00	500.00
3636	-16582	-15885	-16581	-16581	MG	0.00	0.00	500.00
3636	-16584	-16585	-15131	-15131	MG	0.00	0.00	500.00
3636	-15131	-16583	-16584	-16584	MG	0.00	0.00	500.00
3636	-13145	-15131	-16585	-16585	MG	0.00	0.00	500.00
3636	-16583	-15131	-15885	-16582	MG	0.00	0.00	500.00
3643	-10214	-11637	-15964	-15965	MG	0.00	0.00	500.00
3643	-13281	-10312	-10214	-15965	MG	0.00	0.00	500.00
3643	-15964	-11637	-12258	-15963	MG	0.00	0.00	500.00
3643	-15962	-15963	-12258	-9990	MG	0.00	0.00	500.00
3646	-14558	-15956	-15957	-15957	MG	0.00	0.00	500.00
3646	-15956	-14558	-15224	-15955	MG	0.00	0.00	500.00
3646	-12555	-14558	-15958	-15958	MG	0.00	0.00	500.00
3646	-15955	-15224	-15954	-15954	MG	0.00	0.00	500.00
3646	-15957	-15958	-14558	-14558	MG	0.00	0.00	500.00
3655	-10876	-11777	-11778	-11778	MG	0.00	0.00	500.00
3655	-9656	-10876	-11779	-11779	MG	0.00	0.00	500.00
3655	-11778	-11779	-10876	-10876	MG	0.00	0.00	500.00
3655	-11777	-10876	-11775	-11776	MG	0.00	0.00	500.00
3664	-12571	-9569	-9832	-12570	MG	0.00	0.00	500.00
3667	-12563	-11497	-12561	-12562	MG	0.00	0.00	500.00
3667	-12564	-12565	-11497	-11497	MG	0.00	0.00	500.00
3667	-11497	-12563	-12564	-12564	MG	0.00	0.00	500.00
3667	-9964	-11497	-12565	-12565	MG	0.00	0.00	500.00
3674	-13292	-13293	-10095	-9114	MG	0.00	0.00	500.00
3674	-13294	-9826	-10095	-13293	MG	0.00	0.00	500.00
3674	-9314	-9826	-13294	-13295	MG	0.00	0.00	500.00
3675	-13286	-12130	-12703	-13285	MG	0.00	0.00	500.00
3675	-10206	-12130	-13288	-13288	MG	0.00	0.00	500.00
3675	-12130	-13286	-13287	-13287	MG	0.00	0.00	500.00
3675	-13285	-12703	-13284	-13284	MG	0.00	0.00	500.00
3675	-13287	-13288	-12130	-12130	MG	0.00	0.00	500.00
3679	-9523	-10071	-13971	-13972	MG	0.00	0.00	500.00
3679	-13969	-13970	-10348	-9308	MG	0.00	0.00	500.00
3679	-13971	-10071	-10348	-13970	MG	0.00	0.00	500.00
3679	-11427	-9567	-9523	-13972	MG	0.00	0.00	500.00
3681	-10612	-12772	-13965	-13965	MG	0.00	0.00	500.00
3681	-13962	-13419	-13961	-13961	MG	0.00	0.00	500.00
3681	-12772	-13963	-13964	-13964	MG	0.00	0.00	500.00
3681	-13963	-12772	-13419	-13962	MG	0.00	0.00	500.00
3681	-13964	-13965	-12772	-12772	MG	0.00	0.00	500.00
3687	-12078	-9819	-9668	-14641	MG	0.00	0.00	500.00
3687	-14638	-14639	-11017	-9520	MG	0.00	0.00	500.00
3687	-9668	-10383	-14640	-14641	MG	0.00	0.00	500.00
3687	-14640	-10383	-11017	-14639	MG	0.00	0.00	500.00
3689	-13417	-14632	-14633	-14633	MG	0.00	0.00	500.00
3689	-14631	-14025	-14630	-14630	MG	0.00	0.00	500.00
3689	-11291	-13417	-14634	-14634	MG	0.00	0.00	500.00
3689	-14632	-13417	-14025	-14631	MG	0.00	0.00	500.00
3689	-14633	-14634	-13417	-13417	MG	0.00	0.00	500.00
3693	-12701	-10087	-9997	-15304	MG	0.00	0.00	500.00
3693	-15301	-15302	-11636	-9665	MG	0.00	0.00	500.00
3693	-15303	-11020	-11636	-15302	MG	0.00	0.00	500.00
3693	-9997	-11020	-15303	-15304	MG	0.00	0.00	500.00
3695	-15294	-14627	-15293	-15293	MG	0.00	0.00	500.00
3695	-15295	-13957	-14627	-15294	MG	0.00	0.00	500.00
3695	-11868	-13957	-15297	-15297	MG	0.00	0.00	500.00
3695	-13957	-15295	-15296	-15296	MG	0.00	0.00	500.00
3695	-15296	-15297	-13957	-13957	MG	0.00	0.00	500.00
3698	-10260	-11093	-11092	-10656	MG	0.00	0.00	500.00
3698	-10260	-10727	-11094	-11093	MG	0.00	0.00	500.00



**Elenco carichi elementi bidimensionali**  
**Condizione di carico n. 9: Var. termiche**  
**Carichi termici**

**Simbologia**

Bid. =Numero del muro/elemento bidimensionale

N1 =Nodo1

N2 =Nodo2

N3 =Nodo3

N4 =Nodo4

DT =Incremento di temperatura

Gy =Gradiente termico in dir. Y

Bid.	N1	N2	N3	N4	DT <°C>	Gy <°C/m>
3584	-15772	-15838	-15837	-15771	25.00	
3584	-15178	-15245	-15244	-15177	25.00	
3584	-14503	-14573	-14572	-14502	25.00	
3584	-14573	-14641	-14640	-14572	25.00	
3584	-11715	-11781	-11780	-11714	25.00	
3584	-11096	-11162	-11161	-11095	25.00	
3584	-11784	-11847	-11846	-11783	25.00	
3584	-11714	-11780	-11779	-11713	25.00	
3584	-10390	-10459	-10458	-10389	25.00	
3584	-14179	-14245	-14244	-14178	25.00	
3584	-14978	-15044	-15043	-14977	25.00	
3584	-12201	-12273	-12272	-12200	25.00	
3584	-16302	-16368	-16367	-16301	25.00	
3584	-12488	-12571	-12570	-12487	25.00	
3584	-11366	-11436	-11435	-11365	25.00	
3584	-15905	-15971	-15970	-15904	25.00	
3584	-11842	-11925	-11924	-11869	25.00	
3584	-13011	-13076	-13075	-13010	25.00	
3584	-14714	-14780	-14779	-14713	25.00	
3584	-10661	-10745	-10744	-10660	25.00	
3584	-11162	-11228	-11227	-11161	25.00	
3584	-12863	-12941	-12940	-12862	25.00	
3584	-10811	-10879	-10878	-10806	25.00	
3584	-11300	-11366	-11365	-11299	25.00	
3584	-11506	-11576	-11575	-11505	25.00	
3584	-11644	-11714	-11713	-11643	25.00	
3584	-15043	-15112	-15111	-15042	25.00	
3584	-12270	-12338	-12337	-12269	25.00	
3584	-14245	-14311	-14310	-14244	25.00	
3584	-16518	-16517	-16583	-16584	25.00	
3584	-10743	-10813	-10812	-10742	25.00	
3584	-12718	-12788	-12787	-12717	25.00	
3584	-12405	-12523	-12486	-12404	25.00	
3584	-15501	-15567	-15566	-15500	25.00	
3584	-10573	-10728	-10650	-10615	25.00	
3584	-11933	-12058	-12051	-11932	25.00	
3584	-16235	-16301	-16300	-16234	25.00	
3584	-13223	-13292	-13291	-13222	25.00	
3584	-15640	-15706	-15705	-15639	25.00	
3584	-11792	-11854	-11853	-11791	25.00	
3584	-12181	-12201	-12200	-12149	25.00	
3584	-12775	-12845	-12844	-12774	25.00	
3584	-13222	-13291	-13290	-13221	25.00	
3584	-14312	-14378	-14377	-14311	25.00	
3584	-11929	-12048	-12047	-11928	25.00	
3584	-12272	-12340	-12339	-12271	25.00	
3584	-11091	-11157	-11156	-11090	25.00	
3584	-15177	-15244	-15243	-15176	25.00	
3584	-10816	-10885	-10884	-10848	25.00	
3584	-11031	-11101	-11100	-11042	25.00	
3584	-12046	-12136	-12180	-12082	25.00	
3584	-13903	-13973	-13972	-13902	25.00	
3584	-12780	-12850	-12849	-12779	25.00	
3584	-10728	-10742	-10741	-10650	25.00	
3584	-11712	-11778	-11777	-11711	25.00	
3584	-11371	-11441	-11440	-11370	25.00	
3584	-12787	-12857	-12856	-12786	25.00	
3584	-10887	-10956	-10955	-10886	25.00	
3584	-11100	-11166	-11165	-11099	25.00	
3584	-13511	-13577	-13576	-13510	25.00	
3584	-10462	-10544	-10607	-10461	25.00	
3584	-10663	-10748	-10747	-10662	25.00	
3584	-13909	-13979	-13978	-13908	25.00	

Bid.	N1	N2	N3	N4	DT <°C>	Gy <°C/m>
3584	-12049	-12181	-12149	-12048	25.00	
3584	-15245	-15311	-15310	-15244	25.00	
3584	-11030	-11099	-11098	-11029	25.00	
3584	-15044	-15113	-15112	-15043	25.00	
3584	-11777	-11869	-11841	-11776	25.00	
3584	-14647	-14713	-14712	-14646	25.00	
3584	-11847	-11929	-11928	-11846	25.00	
3584	-10883	-10952	-10951	-10882	25.00	
3584	-12853	-12931	-12930	-12852	25.00	
3584	-12198	-12270	-12269	-12197	25.00	
3584	-13441	-13511	-13510	-13440	25.00	
3584	-11645	-11715	-11714	-11644	25.00	
3584	-12845	-12923	-12922	-12844	25.00	
3584	-12271	-12339	-12338	-12270	25.00	
3584	-10745	-10815	-10814	-10744	25.00	
3584	-13775	-13841	-13840	-13774	25.00	
3584	-13227	-13296	-13295	-13226	25.00	
3584	-14437	-14503	-14502	-14436	25.00	
3584	-11367	-11437	-11436	-11366	25.00	
3584	-13148	-13215	-13214	-13147	25.00	
3584	-12709	-12779	-12778	-12708	25.00	
3584	-11103	-11169	-11168	-11102	25.00	
3584	-12489	-12572	-12571	-12488	25.00	
3584	-14911	-14977	-14976	-14910	25.00	
3584	-14846	-14912	-14911	-14845	25.00	
3584	-14845	-14911	-14910	-14844	25.00	
3584	-12568	-12642	-12641	-12567	25.00	
3584	-10318	-10388	-10433	-10374	25.00	
3584	-15244	-15310	-15309	-15243	25.00	
3584	-11575	-11643	-11642	-11574	25.00	
3584	-10813	-10881	-10880	-10812	25.00	
3584	-10464	-10623	-10608	-10463	25.00	
3584	-12337	-12403	-12402	-12336	25.00	
3584	-14580	-14648	-14647	-14579	25.00	
3584	-15839	-15906	-15905	-15838	25.00	
3584	-11163	-11229	-11228	-11162	25.00	
3584	-11301	-11367	-11366	-11300	25.00	
3584	-11437	-11507	-11506	-11436	25.00	
3584	-14780	-14846	-14845	-14779	25.00	
3584	-11854	-11932	-11991	-11853	25.00	
3584	-13014	-13079	-13078	-13013	25.00	
3584	-14114	-14180	-14179	-14113	25.00	
3584	-10748	-10849	-10816	-10747	25.00	
3584	-10606	-10660	-10659	-10574	25.00	
3584	-10396	-10465	-10464	-10395	25.00	
3584	-12406	-12487	-12523	-12405	25.00	
3584	-12340	-12406	-12405	-12339	25.00	
3584	-14509	-14579	-14578	-14508	25.00	
3584	-10574	-10659	-10728	-10573	25.00	
3584	-16236	-16302	-16301	-16235	25.00	
3584	-12199	-12271	-12270	-12198	25.00	
3584	-12348	-12414	-12413	-12347	25.00	
3584	-10965	-11053	-11036	-10964	25.00	
3584	-11167	-11233	-11232	-11166	25.00	
3584	-12138	-12198	-12197	-12137	25.00	
3584	-12349	-12415	-12414	-12348	25.00	
3584	-10536	-10661	-10660	-10606	25.00	
3584	-12793	-12863	-12862	-12792	25.00	
3584	-15977	-15976	-15910	-15911	25.00	
3584	-13010	-13075	-13124	-13009	25.00	
3584	-11440	-11510	-11509	-11439	25.00	
3584	-13218	-13287	-13286	-13217	25.00	
3584	-12048	-12149	-12104	-12047	25.00	

3584	-10814	-10882	-10881	-10813	25.00		3584	-11095	-11161	-11160	-11094	25.00	
3584	-10960	-11043	-11032	-10959	25.00		3584	-10392	-10461	-10460	-10391	25.00	
3584	-11656	-11727	-11726	-11655	25.00		3584	-12487	-12570	-12569	-12523	25.00	
3584	-11846	-11928	-11956	-11845	25.00		3584	-11442	-11512	-11511	-11441	25.00	
3584	-11240	-11312	-11311	-11239	25.00		3584	-10403	-10472	-10471	-10402	25.00	
3584	-10472	-10616	-10538	-10471	25.00		3584	-11448	-11518	-11517	-11447	25.00	
3584	-12847	-12925	-12924	-12846	25.00		3584	-12858	-12936	-12935	-12857	25.00	
3584	-12639	-12710	-12709	-12638	25.00		3584	-10902	-10965	-10964	-10901	25.00	
3584	-10651	-10746	-10745	-10661	25.00		3584	-11578	-11646	-11645	-11577	25.00	
3584	-10962	-10963	-10900	-10899	25.00		3584	-12343	-12409	-12408	-12342	25.00	
3584	-16040	-16039	-15973	-15974	25.00		3584	-12209	-12281	-12280	-12208	25.00	
3584	-11229	-11301	-11300	-11228	25.00		3584	-10667	-10668	-10609	-10575	25.00	
3584	-13007	-13073	-13072	-13006	25.00		3584	-13073	-13148	-13147	-13072	25.00	
3584	-11103	-11104	-11033	-11043	25.00		3584	-10836	-10835	-10770	-10771	25.00	
3584	-15174	-15175	-15110	-15109	25.00		3584	-15040	-15041	-14975	-14974	25.00	
3584	-12705	-12775	-12774	-12704	25.00		3584	-14776	-14777	-14711	-14710	25.00	
3584	-11957	-11958	-11851	-11850	25.00		3584	-12923	-13006	-13005	-12922	25.00	
3584	-13006	-13072	-13123	-13005	25.00		3584	-12409	-12410	-12344	-12343	25.00	
3584	-16515	-16514	-16580	-16581	25.00		3584	-14774	-14775	-14709	-14708	25.00	
3584	-14906	-14907	-14841	-14840	25.00		3584	-10321	-10392	-10391	-10350	25.00	
3584	-10951	-11025	-11024	-10950	25.00		3584	-15305	-15306	-15240	-15239	25.00	
3584	-16310	-16309	-16243	-16244	25.00		3584	-12933	-13016	-13015	-12932	25.00	
3584	-16384	-16383	-16449	-16450	25.00		3584	-10897	-10958	-10957	-10896	25.00	
3584	-11928	-12047	-12084	-11956	25.00		3584	-16049	-16048	-15982	-15983	25.00	
3584	-11643	-11713	-11712	-11642	25.00		3584	-10395	-10464	-10463	-10394	25.00	
3584	-13835	-13836	-13770	-13769	25.00		3584	-12401	-12483	-12482	-12400	25.00	
3584	-10537	-10651	-10661	-10536	25.00		3584	-12411	-12412	-12346	-12345	25.00	
3584	-16566	-16599	-16598	-16565	25.00		3584	-11053	-11108	-11107	-11036	25.00	
3584	-11990	-11959	-11852	-11895	25.00		3584	-10742	-10812	-10811	-10741	25.00	
3584	-10322	-10394	-10393	-10351	25.00		3584	-12806	-12805	-12735	-12736	25.00	
3584	-11441	-11511	-11510	-11440	25.00		3584	-11159	-11225	-11224	-11158	25.00	
3584	-16433	-16499	-16498	-16432	25.00		3584	-16181	-16180	-16114	-16115	25.00	
3584	-12801	-12800	-12730	-12731	25.00		3584	-11433	-11503	-11502	-11432	25.00	
3584	-11503	-11573	-11572	-11502	25.00		3584	-11573	-11641	-11640	-11572	25.00	
3584	-12927	-13010	-13009	-12926	25.00		3584	-11370	-11440	-11439	-11369	25.00	
3584	-11510	-11580	-11579	-11509	25.00		3584	-11224	-11296	-11295	-11223	25.00	
3584	-11296	-11362	-11361	-11295	25.00		3584	-16387	-16386	-16452	-16453	25.00	
3584	-10886	-10955	-10954	-10885	25.00		3584	-15038	-15039	-14973	-14972	25.00	
3584	-11231	-11303	-11302	-11230	25.00		3584	-11640	-11710	-11709	-11639	25.00	
3584	-12728	-12727	-12656	-12657	25.00		3584	-10751	-10851	-10817	-10750	25.00	
3584	-13774	-13840	-13839	-13773	25.00		3584	-13840	-13908	-13907	-13839	25.00	
3584	-11657	-11656	-11589	-11590	25.00		3584	-13435	-13436	-13364	-13363	25.00	
3584	-12663	-12662	-12588	-12589	25.00		3584	-11926	-12046	-12082	-11925	25.00	
3584	-15443	-15509	-15508	-15442	25.00		3584	-12339	-12405	-12404	-12338	25.00	
3584	-16500	-16566	-16565	-16499	25.00		3584	-11438	-11508	-11507	-11437	25.00	
3584	-11156	-11222	-11221	-11155	25.00		3584	-11222	-11294	-11293	-11221	25.00	
3584	-12655	-12654	-12580	-12581	25.00		3584	-16389	-16388	-16454	-16455	25.00	
3584	-10669	-10653	-10545	-10564	25.00		3584	-10469	-10470	-10401	-10400	25.00	
3584	-11027	-11096	-11095	-11026	25.00		3584	-10320	-10390	-10389	-10319	25.00	
3584	-12282	-12281	-12209	-12210	25.00		3584	-12210	-12209	-12182	-12183	25.00	
3584	-12183	-12182	-12058	-12032	25.00		3584	-12032	-12058	-11933	-11960	25.00	
3584	-11960	-11933	-11855	-11856	25.00		3584	-10815	-10883	-10882	-10814	25.00	
3584	-12581	-12580	-12496	-12497	25.00		3584	-10952	-11026	-11025	-10951	25.00	
3584	-11026	-11095	-11094	-11025	25.00		3584	-16496	-16497	-16431	-16430	25.00	
3584	-16364	-16365	-16299	-16298	25.00		3584	-16232	-16233	-16167	-16166	25.00	
3584	-16100	-16101	-16035	-16034	25.00		3584	-10660	-10744	-10743	-10659	25.00	
3584	-16230	-16231	-16165	-16164	25.00		3584	-16362	-16363	-16297	-16296	25.00	
3584	-15172	-15173	-15108	-15107	25.00		3584	-16593	-16594	-16561	-16560	25.00	
3584	-12418	-12417	-12351	-12352	25.00		3584	-12352	-12351	-12283	-12284	25.00	
3584	-10388	-10457	-10456	-10433	25.00		3584	-12212	-12211	-12106	-12151	25.00	
3584	-12151	-12106	-12033	-12088	25.00		3584	-12088	-12033	-11934	-11935	25.00	
3584	-11935	-11934	-11896	-11857	25.00		3584	-11857	-11896	-11795	-11796	25.00	
3584	-10881	-10950	-10949	-10880	25.00		3584	-12499	-12498	-12418	-12419	25.00	
3584	-10824	-10902	-10901	-10823	25.00		3584	-12353	-12352	-12284	-12285	25.00	
3584	-12285	-12284	-12212	-12213	25.00		3584	-12213	-12212	-12151	-12107	25.00	
3584	-12107	-12151	-12088	-12089	25.00		3584	-12089	-12088	-11935	-11961	25.00	
3584	-11961	-11935	-11857	-11897	25.00		3584	-12572	-12646	-12645	-12571	25.00	
3584	-12584	-12583	-12499	-12500	25.00		3584	-12500	-12499	-12419	-12420	25.00	
3584	-12420	-12419	-12353	-12354	25.00		3584	-12354	-12353	-12285	-12286	25.00	
3584	-12286	-12285	-12213	-12214	25.00		3584	-12214	-12213	-12107	-12152	25.00	
3584	-12152	-12107	-12089	-12090	25.00		3584	-12779	-12849	-12848	-12778	25.00	
3584	-10351	-10393	-10392	-10321	25.00		3584	-11858	-11897	-11797	-11798	25.00	
3584	-12585	-12584	-12500	-12501	25.00		3584	-12501	-12500	-12420	-12421	25.00	
3584	-12421	-12420	-12354	-12355	25.00		3584	-12403	-12485	-12484	-12402	25.00	
3584	-12563	-12637	-12636	-12562	25.00		3584	-12215	-12214	-12152	-12118	25.00	
3584	-12015	-12103	-12136	-12046	25.00		3584	-13440	-13510	-13509	-13439	25.00	
3584	-11936	-11962	-11858	-11871	25.00		3584	-11303	-11369	-11368	-11302	25.00	
3584	-12727	-12726	-12655	-12656	25.00		3584	-12502	-12501	-12421	-12422	25.00	
3584	-10662	-10747	-10746	-10651	25.00		3584	-10747	-10816	-10848	-10746	25.00	

Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3584	-11361	-11431	-11430	-11360	25.00		3584	-11779	-11843	-11842	-11778	25.00	
3584	-11378	-11448	-11447	-11377	25.00		3584	-11649	-11720	-11719	-11648	25.00	
3584	-15835	-15836	-15770	-15769	25.00		3584	-12643	-12714	-12713	-12642	25.00	
3584	-11090	-11156	-11155	-11089	25.00		3584	-15439	-15440	-15374	-15373	25.00	
3584	-11508	-11578	-11577	-11507	25.00		3584	-14240	-14241	-14175	-14174	25.00	
3584	-14372	-14373	-14307	-14306	25.00		3584	-14504	-14505	-14439	-14438	25.00	
3584	-14642	-14643	-14575	-14574	25.00		3584	-11925	-12082	-12045	-11924	25.00	
3584	-10467	-10468	-10399	-10398	25.00		3584	-13019	-13020	-12937	-12936	25.00	
3584	-10819	-10820	-10754	-10753	25.00		3584	-10960	-10961	-10898	-10889	25.00	
3584	-14644	-14645	-14577	-14576	25.00		3584	-15307	-15308	-15242	-15241	25.00	
3584	-12482	-12564	-12563	-12481	25.00		3584	-14242	-14243	-14177	-14176	25.00	
3584	-14908	-14909	-14843	-14842	25.00		3584	-11789	-11790	-11724	-11723	25.00	
3584	-11652	-11653	-11586	-11585	25.00		3584	-12140	-12150	-12085	-12050	25.00	
3584	-12275	-12276	-12204	-12203	25.00		3584	-11237	-11238	-11172	-11171	25.00	
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3584	-12925	-13008	-13007	-12924	25.00		3584	-15571	-15572	-15506	-15505	25.00	

Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3584	-16046	-16045	-15979	-15980	25.00		3584	-10917	-10910	-10834	-10835	25.00	
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3584	-11875	-11874	-11804	-11805	25.00		3584	-10470	-10471	-10402	-10401	25.00	
3584	-10400	-10401	-10328	-10327	25.00		3584	-10401	-10402	-10352	-10328	25.00	
3584	-10653	-10670	-10538	-10545	25.00		3584	-10564	-10545	-10470	-10469	25.00	
3584	-10545	-10538	-10471	-10470	25.00		3584	-10822	-10823	-10757	-10756	25.00	
3584	-10755	-10756	-10653	-10669	25.00		3584	-10756	-10757	-10670	-10653	25.00	
3584	-10963	-10964	-10901	-10900	25.00		3584	-10899	-10900	-10822	-10821	25.00	
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3584	-11034	-11035	-10963	-10962	25.00		3584	-11035	-11036	-10964	-10963	25.00	
3584	-11238	-11239	-11173	-11172	25.00		3584	-11171	-11172	-11106	-11105	25.00	
3584	-11172	-11173	-11107	-11106	25.00		3584	-11376	-11377	-11311	-11310	25.00	
3584	-11309	-11310	-11238	-11237	25.00		3584	-11310	-11311	-11239	-11238	25.00	
3584	-11516	-11517	-11447	-11446	25.00		3584	-11445	-11446	-11376	-11375	25.00	
3584	-11446	-11447	-11377	-11376	25.00		3584	-11653	-11654	-11587	-11586	25.00	
3584	-11585	-11586	-11516	-11515	25.00		3584	-11586	-11587	-11517	-11516	25.00	
3584	-11790	-11791	-11725	-11724	25.00		3584	-11723	-11724	-11653	-11652	25.00	
3584	-11724	-11725	-11654	-11653	25.00		3584	-11959	-11991	-11853	-11852	25.00	
3584	-11895	-11852	-11790	-11789	25.00		3584	-11852	-11853	-11791	-11790	25.00	
3584	-12168	-12169	-12087	-12017	25.00		3584	-12086	-12017	-11959	-11990	25.00	
3584	-12017	-12087	-11991	-11959	25.00		3584	-12278	-12279	-12207	-12206	25.00	
3584	-12205	-12206	-12168	-12105	25.00		3584	-12206	-12207	-12169	-12168	25.00	
3584	-12412	-12413	-12347	-12346	25.00		3584	-12345	-12346	-12278	-12277	25.00	
3584	-12346	-12347	-12279	-12278	25.00		3584	-12576	-12577	-12494	-12493	25.00	
3584	-12492	-12493	-12412	-12411	25.00		3584	-12493	-12494	-12413	-12412	25.00	
3584	-12721	-12722	-12651	-12650	25.00		3584	-12649	-12650	-12576	-12575	25.00	
3584	-12650	-12651	-12577	-12576	25.00		3584	-12861	-12862	-12792	-12791	25.00	
3584	-12790	-12791	-12721	-12720	25.00		3584	-12791	-12792	-12722	-12721	25.00	
3584	-13022	-13023	-12940	-12939	25.00		3584	-12938	-12939	-12861	-12860	25.00	
3584	-12939	-12940	-12862	-12861	25.00		3584	-13162	-13172	-13081	-13094	25.00	
3584	-13093	-13094	-13022	-13021	25.00		3584	-13094	-13081	-13023	-13022	25.00	
3584	-13299	-13300	-13231	-13230	25.00		3584	-13229	-13230	-13162	-13161	25.00	
3584	-13230	-13231	-13172	-13162	25.00		3584	-13438	-13439	-13367	-13366	25.00	
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3584	-13574	-13575	-13509	-13508	25.00		3584	-13507	-13508	-13438	-13437	25.00	
3584	-13508	-13509	-13439	-13438	25.00		3584	-13706	-13707	-13641	-13640	25.00	
3584	-13639	-13640	-13574	-13573	25.00		3584	-13640	-13641	-13575	-13574	25.00	
3584	-13838	-13839	-13773	-13772	25.00		3584	-13771	-13772	-13706	-13705	25.00	
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3584	-14111	-14112	-14044	-14043	25.00		3584	-14042	-14043	-13976	-13975	25.00	
3584	-14043	-14044	-13977	-13976	25.00		3584	-14243	-14244	-14178	-14177	25.00	
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3584	-14375	-14376	-14310	-14309	25.00		3584	-14308	-14309	-14243	-14242	25.00	
3584	-14309	-14310	-14244	-14243	25.00		3584	-14507	-14508	-14442	-14441	25.00	
3584	-14440	-14441	-14375	-14374	25.00		3584	-14441	-14442	-14376	-14375	25.00	
3584	-14645	-14646	-14578	-14577	25.00		3584	-14576	-14577	-14507	-14506	25.00	
3584	-14577	-14578	-14508	-14507	25.00		3584	-14777	-14778	-14712	-14711	25.00	
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3584	-14909	-14910	-14844	-14843	25.00		3584	-14842	-14843	-14777	-14776	25.00	
3584	-14843	-14844	-14778	-14777	25.00		3584	-15041	-15042	-14976	-14975	25.00	
3584	-14974	-14975	-14909	-14908	25.00		3584	-14975	-14976	-14910	-14909	25.00	
3584	-15175	-15176	-15111	-15110	25.00		3584	-15109	-15110	-15041	-15040	25.00	
3584	-15110	-15111	-15042	-15041	25.00		3584	-15308	-15309	-15243	-15242	25.00	
3584	-15241	-15242	-15175	-15174	25.00		3584	-15242	-15243	-15176	-15175	25.00	
3584	-15440	-15441	-15375	-15374	25.00		3584	-15373	-15374	-15308	-15307	25.00	
3584	-15374	-15375	-15309	-15308	25.00		3584	-15572	-15573	-15507	-15506	25.00	
3584	-15505	-15506	-15440	-15439	25.00		3584	-15506	-15507	-15441	-15440	25.00	
3584	-15704	-15705	-15639	-15638	25.00		3584	-15637	-15638	-15572	-15571	25.00	
3584	-15638	-15639	-15573	-15572	25.00		3584	-15836	-15837	-15771	-15770	25.00	
3584	-15769	-15770	-15704	-15703	25.00		3584	-15770	-15771	-15705	-15704	25.00	

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3584	-15969	-15970	-15904	-15903	25.00			3584	-15902	-15903	-15836	-15835	25.00		
3584	-15903	-15904	-15837	-15836	25.00			3584	-16101	-16102	-16036	-16035	25.00		
3584	-16034	-16035	-15969	-15968	25.00			3584	-16035	-16036	-15970	-15969	25.00		
3584	-16233	-16234	-16168	-16167	25.00			3584	-16166	-16167	-16101	-16100	25.00		
3584	-16167	-16168	-16102	-16101	25.00			3584	-16365	-16366	-16300	-16299	25.00		
3584	-16298	-16299	-16233	-16232	25.00			3584	-16299	-16300	-16234	-16233	25.00		
3584	-16497	-16498	-16432	-16431	25.00			3584	-16430	-16431	-16365	-16364	25.00		
3584	-16431	-16432	-16366	-16365	25.00			3584	-16596	-16597	-16564	-16563	25.00		
3584	-16562	-16563	-16497	-16496	25.00			3584	-16563	-16564	-16498	-16497	25.00		
3584	-16464	-16465	-16531	-16530	25.00			3584	-16529	-16530	-16596	-16595	25.00		
3584	-16530	-16531	-16597	-16596	25.00			3584	-11160	-11226	-11225	-11159	25.00		
3584	-16397	-16398	-16464	-16463	25.00			3584	-16398	-16399	-16465	-16464	25.00		
3584	-11364	-11434	-11433	-11363	25.00			3584	-11434	-11504	-11503	-11433	25.00		
3584	-11504	-11574	-11573	-11503	25.00			3584	-11574	-11642	-11641	-11573	25.00		
3584	-11642	-11712	-11711	-11641	25.00			3584	-13893	-13963	-13962	-13892	25.00		
3584	-13285	-13352	-13351	-13284	25.00			3584	-13352	-13424	-13423	-13351	25.00		
3584	-11225	-11297	-11296	-11224	25.00			3584	-11297	-11363	-11362	-11296	25.00		
3584	-11363	-11433	-11432	-11362	25.00			3584	-13626	-13692	-13691	-13625	25.00		
3584	-13692	-13758	-13757	-13691	25.00			3584	-13758	-13824	-13823	-13757	25.00		
3584	-13824	-13892	-13891	-13823	25.00			3584	-13892	-13962	-13961	-13891	25.00		
3584	-11092	-11158	-11157	-11091	25.00			3584	-11158	-11224	-11223	-11157	25.00		
3584	-13423	-13493	-13492	-13422	25.00			3584	-13493	-13559	-13558	-13492	25.00		
3584	-13559	-13625	-13624	-13558	25.00			3584	-13625	-13691	-13690	-13624	25.00		
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3584	-13823	-13891	-13890	-13822	25.00			3584	-11710	-11776	-11775	-11709	25.00		
3584	-13283	-13350	-13349	-13282	25.00			3584	-11157	-11223	-11222	-11156	25.00		
3584	-13422	-13492	-13491	-13421	25.00			3584	-13492	-13558	-13557	-13491	25.00		
3584	-13558	-13624	-13623	-13557	25.00			3584	-11431	-11501	-11500	-11430	25.00		
3584	-11501	-11571	-11570	-11500	25.00			3584	-11571	-11639	-11638	-11570	25.00		
3584	-11639	-11709	-11708	-11638	25.00			3584	-11709	-11775	-11774	-11708	25.00		
3584	-13971	-14038	-14037	-13970	25.00			3584	-14038	-14106	-14105	-14037	25.00		
3584	-14106	-14172	-14171	-14105	25.00			3584	-11294	-11360	-11359	-11293	25.00		
3584	-11360	-11430	-11429	-11359	25.00			3584	-11430	-11500	-11499	-11429	25.00		
3584	-11500	-11570	-11569	-11499	25.00			3584	-11570	-11638	-11669	-11569	25.00		
3584	-11638	-11708	-11707	-11669	25.00			3584	-11708	-11774	-11773	-11707	25.00		
3584	-11785	-11848	-11847	-11784	25.00			3584	-11848	-11930	-11929	-11847	25.00		
3584	-11930	-12049	-12048	-11929	25.00			3584	-14171	-14237	-14236	-14170	25.00		
3584	-14237	-14303	-14302	-14236	25.00			3584	-14303	-14369	-14368	-14302	25.00		
3584	-12273	-12341	-12340	-12272	25.00			3584	-12341	-12407	-12406	-12340	25.00		
3584	-12407	-12488	-12487	-12406	25.00			3584	-14571	-14639	-14638	-14570	25.00		
3584	-13969	-14036	-14035	-13968	25.00			3584	-14036	-14104	-14103	-14035	25.00		
3584	-14104	-14170	-14169	-14103	25.00			3584	-14170	-14236	-14235	-14169	25.00		
3584	-12149	-12200	-12199	-12104	25.00			3584	-12200	-12272	-12271	-12199	25.00		
3584	-14368	-14434	-14433	-14367	25.00			3584	-14434	-14500	-14499	-14433	25.00		
3584	-14500	-14570	-14569	-14499	25.00			3584	-14570	-14638	-14637	-14569	25.00		
3584	-11783	-11846	-11845	-11782	25.00			3584	-14035	-14103	-14102	-14034	25.00		
3584	-14103	-14169	-14168	-14102	25.00			3584	-12047	-12104	-12138	-12084	25.00		
3584	-12104	-12199	-12198	-12138	25.00			3584	-14301	-14367	-14366	-14300	25.00		
3584	-14367	-14433	-14432	-14366	25.00			3584	-14433	-14499	-14498	-14432	25.00		
3584	-14499	-14569	-14568	-14498	25.00			3584	-12523	-12569	-12568	-12486	25.00		
3584	-11782	-11845	-11870	-11781	25.00			3584	-11845	-11956	-11955	-11870	25.00		
3584	-11956	-12084	-12083	-11955	25.00			3584	-12084	-12138	-12137	-12083	25.00		
3584	-14234	-14300	-14299	-14233	25.00			3584	-14300	-14366	-14365	-14299	25.00		
3584	-14366	-14432	-14431	-14365	25.00			3584	-12338	-12404	-12403	-12337	25.00		
3584	-12404	-12486	-12485	-12403	25.00			3584	-12486	-12568	-12567	-12485	25.00		
3584	-11781	-11870	-11844	-11780	25.00			3584	-11870	-11955	-11927	-11844	25.00		
3584	-11955	-12083	-12015	-11927	25.00			3584	-12083	-12137	-12103	-12015	25.00		
3584	-12137	-12197	-12196	-12103	25.00			3584	-12197	-12269	-12268	-12196	25.00		
3584	-12269	-12337	-12336	-12268	25.00			3584	-14431	-14497	-14496	-14430	25.00		
3584	-14497	-14567	-14566	-14496	25.00			3584	-12485	-12567	-12566	-12484	25.00		
3584	-11780	-11844	-11843	-11779	25.00			3584	-11844	-11927	-11926	-11843	25.00		
3584	-11927	-12015	-12046	-11926	25.00			3584	-14166	-14232	-14231	-14165	25.00		
3584	-12103	-12196	-12195	-12136	25.00			3584	-12586	-12585	-12501	-12502	25.00		
3584	-12268	-12336	-12335	-12267	25.00			3584	-15437	-15438	-15372	-15371	25.00		
3584	-15569	-15570	-15504	-15503	25.00			3584	-12484	-12566	-12565	-12483	25.00		
3584	-13964	-14031	-14030	-13963	25.00			3584	-14031	-14099	-14098	-14030	25.00		
3584	-14099	-14165	-14164	-14098	25.00			3584	-14165	-14231	-14230	-14164	25.00		
3584	-12136	-12195	-12194	-12180	25.00			3584	-12195	-12267	-12266	-12194	25.00		
3584	-12267	-12335	-12334	-12266	25.00			3584	-12335	-12401	-12400	-12334	25.00		
3584	-14495	-14565	-14564	-14494	25.00			3584	-12483	-12565	-12564	-12482	25.00		
3584	-11778	-11842	-11869	-11777	25.00			3584	-14030	-14098	-14097	-14029	25.00		
3584	-14098	-14164	-14163	-14097	25.00			3584	-12082	-12180	-12135	-12045	25.00		
3584	-12180	-12194	-12193	-12135	25.00			3584	-12194	-12266	-12265	-12193	25.00		
3584	-12266	-12334	-12333	-12265	25.00			3584	-12334	-12400	-12399	-12333	25.00		
3584	-12400	-12482	-12481	-12399	25.00			3584	-14564	-14632	-14631	-14563	25.00		
3584	-13962	-14029	-14028	-13961	25.00			3584	-11869	-11924	-11923	-11841	25.00		
3584	-11924	-12045	-12044	-11923	25.00			3584	-10468	-10469	-10400	-10399	25.00		
3584	-10398	-10399	-10326	-10325	25.00			3584	-10399	-10400	-10327	-10326	25.00		
3584	-10668	-10669	-10564	-10609	25.00			3584	-10575	-10609	-10468	-10467	25.00		

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3584	-10609	-10564	-10469	-10468	25.00		3584	-10820	-10821	-10755	-10754	25.00	
3584	-10753	-10754	-10668	-10667	25.00		3584	-10754	-10755	-10669	-10668	25.00	
3584	-10961	-10962	-10899	-10898	25.00		3584	-10889	-10898	-10820	-10819	25.00	
3584	-10898	-10899	-10821	-10820	25.00		3584	-11104	-11105	-11034	-11033	25.00	
3584	-11043	-11033	-10961	-10960	25.00		3584	-11033	-11034	-10962	-10961	25.00	
3584	-11236	-11237	-11171	-11170	25.00		3584	-11169	-11170	-11104	-11103	25.00	
3584	-11170	-11171	-11105	-11104	25.00		3584	-14027	-14095	-14094	-14026	25.00	
3584	-11307	-11308	-11236	-11235	25.00		3584	-11308	-11309	-11237	-11236	25.00	
3584	-11514	-11515	-11445	-11444	25.00		3584	-11443	-11444	-11374	-11373	25.00	
3584	-11444	-11445	-11375	-11374	25.00		3584	-11651	-11652	-11585	-11584	25.00	
3584	-11583	-11584	-11514	-11513	25.00		3584	-11584	-11585	-11515	-11514	25.00	
3584	-11788	-11789	-11723	-11722	25.00		3584	-11721	-11722	-11651	-11650	25.00	
3584	-11722	-11723	-11652	-11651	25.00		3584	-11958	-11990	-11895	-11851	25.00	
3584	-11850	-11851	-11788	-11787	25.00		3584	-11851	-11895	-11789	-11788	25.00	
3584	-12150	-12105	-12086	-12085	25.00		3584	-12050	-12085	-11958	-11957	25.00	
3584	-12085	-12086	-11990	-11958	25.00		3584	-12276	-12277	-12205	-12204	25.00	
3584	-12203	-12204	-12150	-12140	25.00		3584	-12204	-12205	-12105	-12150	25.00	
3584	-12410	-12411	-12345	-12344	25.00		3584	-12343	-12344	-12276	-12275	25.00	
3584	-12344	-12345	-12277	-12276	25.00		3584	-12574	-12575	-12492	-12491	25.00	
3584	-12490	-12491	-12410	-12409	25.00		3584	-12491	-12492	-12411	-12410	25.00	
3584	-12719	-12720	-12649	-12648	25.00		3584	-12647	-12648	-12574	-12573	25.00	
3584	-12648	-12649	-12575	-12574	25.00		3584	-12859	-12860	-12790	-12789	25.00	
3584	-12788	-12789	-12719	-12718	25.00		3584	-12789	-12790	-12720	-12719	25.00	
3584	-13020	-13021	-12938	-12937	25.00		3584	-12936	-12937	-12859	-12858	25.00	
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3584	-15246	-15245	-15178	-15179	25.00		3584	-15179	-15178	-15113	-15114	25.00	
3584	-15114	-15113	-15044	-15045	25.00		3584	-15045	-15044	-14978	-14979	25.00	
3584	-14979	-14978	-14912	-14913	25.00		3584	-14913	-14912	-14846	-14847	25.00	
3584	-14847	-14846	-14780	-14781	25.00		3584	-14781	-14780	-14714	-14715	25.00	
3584	-14715	-14714	-14648	-14649	25.00		3584	-15313	-15312	-15246	-15247	25.00	
3584	-15247	-15246	-15179	-15180	25.00		3584	-15180	-15179	-15114	-15115	25.00	
3584	-15115	-15114	-15045	-15046	25.00		3584	-15046	-15045	-14979	-14980	25.00	
3584	-14980	-14979	-14913	-14914	25.00		3584	-14914	-14913	-14847	-14848	25.00	
3584	-14848	-14847	-14781	-14782	25.00		3584	-14782	-14781	-14715	-14716	25.00	
3584	-14716	-14715	-14649	-14650	25.00		3584	-15314	-15313	-15247	-15248	25.00	
3584	-15248	-15247	-15180	-15181	25.00		3584	-15181	-15180	-15115	-15116	25.00	
3584	-15116	-15115	-15046	-15047	25.00		3584	-15047	-15046	-14980	-14981	25.00	
3584	-14981	-14980	-14914	-14915	25.00		3584	-14915	-14914	-14848	-14849	25.00	
3584	-14849	-14848	-14782	-14783	25.00		3584	-14783	-14782	-14716	-14717	25.00	
3584	-14717	-14716	-14650	-14651	25.00		3584	-15315	-15314	-15248	-15249	25.00	
3584	-15249	-15248	-15181	-15182	25.00		3584	-15182	-15181	-15116	-15117	25.00	
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3584	-14982	-14981	-14915	-14916	25.00		3584	-14916	-14915	-14849	-14850	25.00	
3584	-14850	-14849	-14783	-14784	25.00		3584	-14784	-14783	-14717	-14718	25.00	
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3584	-15250	-15249	-15182	-15183	25.00		3584	-15183	-15182	-15117	-15118	25.00	
3584	-15118	-15117	-15048	-15049	25.00		3584	-15049	-15048	-14982	-14983	25.00	
3584	-14983	-14982	-14916	-14917	25.00		3584	-14917	-14916	-14850	-14851	25.00	
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3584	-14719	-14718	-14652	-14653	25.00		3584	-15317	-15316	-15250	-15251	25.00	
3584	-15251	-15250	-15183	-15184	25.00		3584	-15184	-15183	-15118	-15119	25.00	
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3584	-14984	-14983	-14917	-14918	25.00		3584	-14918	-14917	-14851	-14852	25.00	
3584	-14852	-14851	-14785	-14786	25.00		3584	-14786	-14785	-14719	-14720	25.00	
3584	-14720	-14719	-14653	-14654	25.00		3584	-15318	-15317	-15251	-15252	25.00	
3584	-15252	-15251	-15184	-15185	25.00		3584	-15185	-15184	-15133	-15119	25.00	
3584	-15119	-15133	-15050	-15051	25.00		3584	-15051	-15050	-14984	-14985	25.00	
3584	-14985	-14984	-14918	-14919	25.00		3584	-14919	-14918	-14852	-14853	25.00	
3584	-14853	-14852	-14786	-14787	25.00		3584	-14787	-14786	-14720	-14721	25.00	
3584	-14721	-14720	-14654	-14655	25.00		3584	-15319	-15318	-15252	-15253	25.00	
3584	-15253	-15252	-15185	-15186	25.00		3584	-15186	-15185	-15119	-15120	25.00	
3584	-15120	-15119	-15051	-15052	25.00		3584	-15052	-15051	-14985	-14986	25.00	
3584	-14986	-14985	-14919	-14920	25.00		3584	-14920	-14919	-14853	-14854	25.00	
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3584	-14722	-14721	-14655	-14656	25.00		3584	-15320	-15319	-15253	-15254	25.00	
3584	-15254	-15253	-15186	-15187	25.00		3584	-15187	-15186	-15120	-15095	25.00	
3584	-15095	-15120	-15052	-15053	25.00		3584	-15053	-15052	-14986	-14987	25.00	
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3584	-15255	-15254	-15187	-15188	25.00		3584	-15188	-15187	-15095	-15134	25.00	

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3584	-15134	-15095	-15053	-15054	25.00			3584	-15054	-15053	-14987	-14988	25.00		
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3584	-14724	-14723	-14657	-14658	25.00			3584	-12800	-12799	-12729	-12730	25.00		
3584	-16463	-16464	-16530	-16529	25.00			3584	-12798	-12797	-12727	-12728	25.00		
3584	-12797	-12796	-12726	-12727	25.00			3584	-12796	-12795	-12725	-12726	25.00		
3584	-12795	-12794	-12724	-12725	25.00			3584	-12736	-12735	-12664	-12665	25.00		
3584	-12735	-12734	-12663	-12664	25.00			3584	-12734	-12733	-12662	-12663	25.00		
3584	-12733	-12732	-12661	-12662	25.00			3584	-12732	-12731	-12660	-12661	25.00		
3584	-12731	-12730	-12659	-12660	25.00			3584	-12730	-12729	-12658	-12659	25.00		
3584	-12729	-12728	-12657	-12658	25.00			3584	-15056	-15055	-14989	-14990	25.00		
3584	-14990	-14989	-14923	-14924	25.00			3584	-12726	-12725	-12654	-12655	25.00		
3584	-12725	-12724	-12653	-12654	25.00			3584	-12665	-12664	-12590	-12591	25.00		
3584	-12664	-12663	-12589	-12590	25.00			3584	-14649	-14648	-14580	-14581	25.00		
3584	-12662	-12661	-12587	-12588	25.00			3584	-12661	-12660	-12586	-12587	25.00		
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3584	-12658	-12657	-12583	-12584	25.00			3584	-12657	-12656	-12582	-12583	25.00		
3584	-12656	-12655	-12581	-12582	25.00			3584	-14115	-14114	-14069	-14046	25.00		
3584	-12654	-12653	-12579	-12580	25.00			3584	-12580	-12579	-12524	-12496	25.00		
3584	-12496	-12524	-12415	-12416	25.00			3584	-12416	-12415	-12349	-12350	25.00		
3584	-12350	-12349	-12281	-12282	25.00			3584	-14380	-14379	-14313	-14314	25.00		
3584	-14314	-14313	-14247	-14248	25.00			3584	-14248	-14247	-14181	-14182	25.00		
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3584	-14093	-14046	-13980	-13981	25.00			3584	-14651	-14650	-14582	-14583	25.00		
3584	-14583	-14582	-14512	-14513	25.00			3584	-14513	-14512	-14446	-14447	25.00		
3584	-14447	-14446	-14380	-14381	25.00			3584	-14381	-14380	-14314	-14315	25.00		
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3584	-14183	-14182	-14116	-14117	25.00			3584	-14117	-14116	-14093	-14047	25.00		
3584	-14047	-14093	-13981	-13982	25.00			3584	-14652	-14651	-14583	-14584	25.00		
3584	-14584	-14583	-14513	-14514	25.00			3584	-16394	-16393	-16459	-16460	25.00		
3584	-16460	-16459	-16525	-16526	25.00			3584	-16526	-16525	-16591	-16592	25.00		
3584	-14316	-14315	-14249	-14250	25.00			3584	-14250	-14249	-14183	-14184	25.00		
3584	-14184	-14183	-14117	-14118	25.00			3584	-14118	-14117	-14047	-14048	25.00		
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3584	-14317	-14316	-14250	-14251	25.00			3584	-14251	-14250	-14184	-14185	25.00		
3584	-14185	-14184	-14118	-14119	25.00			3584	-14119	-14118	-14048	-14049	25.00		
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3584	-14450	-14449	-14383	-14384	25.00			3584	-14384	-14383	-14317	-14318	25.00		
3584	-14318	-14317	-14251	-14252	25.00			3584	-14252	-14251	-14185	-14186	25.00		
3584	-14186	-14185	-14119	-14120	25.00			3584	-14120	-14119	-14049	-14050	25.00		
3584	-14050	-14049	-13984	-13985	25.00			3584	-14655	-14654	-14586	-14587	25.00		
3584	-14587	-14586	-14516	-14517	25.00			3584	-14517	-14516	-14450	-14451	25.00		
3584	-14451	-14450	-14384	-14385	25.00			3584	-14385	-14384	-14318	-14319	25.00		
3584	-14319	-14318	-14252	-14253	25.00			3584	-14253	-14252	-14186	-14187	25.00		
3584	-14187	-14186	-14120	-14121	25.00			3584	-14121	-14120	-14050	-14051	25.00		
3584	-14051	-14050	-13985	-13986	25.00			3584	-14656	-14655	-14587	-14588	25.00		
3584	-14588	-14587	-14517	-14518	25.00			3584	-14518	-14517	-14451	-14452	25.00		
3584	-14452	-14451	-14385	-14386	25.00			3584	-14386	-14385	-14319	-14320	25.00		
3584	-14320	-14319	-14253	-14254	25.00			3584	-14254	-14253	-14187	-14188	25.00		
3584	-14188	-14187	-14121	-14122	25.00			3584	-14122	-14121	-14051	-14052	25.00		
3584	-14052	-14051	-13986	-13987	25.00			3584	-14657	-14656	-14588	-14589	25.00		
3584	-14589	-14588	-14518	-14519	25.00			3584	-14519	-14518	-14452	-14453	25.00		
3584	-14453	-14452	-14386	-14387	25.00			3584	-14387	-14386	-14320	-14321	25.00		
3584	-14321	-14320	-14254	-14255	25.00			3584	-14255	-14254	-14188	-14189	25.00		
3584	-14189	-14188	-14122	-14123	25.00			3584	-14123	-14122	-14052	-14053	25.00		
3584	-14053	-14052	-13987	-13988	25.00			3584	-14658	-14657	-14589	-14590	25.00		
3584	-14590	-14589	-14519	-14520	25.00			3584	-14520	-14519	-14453	-14454	25.00		
3584	-14454	-14453	-14387	-14388	25.00			3584	-14388	-14387	-14321	-14322	25.00		
3584	-14322	-14321	-14255	-14256	25.00			3584	-14256	-14255	-14189	-14190	25.00		
3584	-14190	-14189	-14123	-14124	25.00			3584	-14124	-14123	-14053	-14054	25.00		
3584	-14054	-14053	-13988	-13989	25.00			3584	-14659	-14658	-14590	-14591	25.00		
3584	-14591	-14590	-14520	-14521	25.00			3584	-14521	-14520	-14454	-14455	25.00		
3584	-14455	-14454	-14388	-14389	25.00			3584	-14389	-14388	-14322	-14323	25.00		
3584	-14323	-14322	-14256	-14257	25.00			3584	-14257	-14256	-14190	-14191	25.00		
3584	-14191	-14190	-14124	-14125	25.00			3584	-14125	-14124	-14054	-14055	25.00		
3584	-14055	-14054	-13989	-13990	25.00			3584	-14660	-14659	-14591	-14592	25.00		
3584	-16400	-16399	-16465	-16466	25.00			3584	-16466	-16465	-16531	-16532	25.00		
3584	-16532	-16531	-16597	-16598	25.00			3584	-14390	-14389	-14323	-14324	25.00		
3584	-14324	-14323	-14257	-14258	25.00			3584	-14258	-14257	-14191	-14192	25.00		
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3584	-14056	-14055	-13990	-13991	25.00			3584	-16611	-16610	-16577	-16578	25.00		
3584	-16401	-16400	-16466	-16467	25.00			3584	-16467	-16466	-16532	-16533	25.00		
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3584	-16604	-16603	-16570	-16571	25.00			3584	-16603	-16602	-16569	-16570	25.00		
3584	-16602	-16601	-16568	-16569	25.00			3584	-16601	-16600	-16567	-16568	25.00		

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3584	-16600	-16599	-16566	-16567	25.00		3584	-16578	-16577	-16511	-16512	25.00	
3584	-16577	-16576	-16510	-16511	25.00		3584	-16576	-16575	-16509	-16510	25.00	
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3584	-16571	-16570	-16504	-16505	25.00		3584	-16570	-16569	-16503	-16504	25.00	
3584	-16569	-16568	-16502	-16503	25.00		3584	-16568	-16567	-16501	-16502	25.00	
3584	-16567	-16566	-16500	-16501	25.00		3584	-14708	-14774	-14773	-14707	25.00	
3584	-14774	-14840	-14839	-14773	25.00		3584	-14840	-14906	-14905	-14839	25.00	
3584	-14906	-14972	-14971	-14905	25.00		3584	-14972	-15038	-15037	-14971	25.00	
3584	-15038	-15107	-15106	-15037	25.00		3584	-15107	-15172	-15171	-15106	25.00	
3584	-15172	-15239	-15238	-15171	25.00		3584	-15239	-15305	-15304	-15238	25.00	
3584	-14641	-14707	-14706	-14640	25.00		3584	-14707	-14773	-14772	-14706	25.00	
3584	-14773	-14839	-14838	-14772	25.00		3584	-14839	-14905	-14904	-14838	25.00	
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3584	-15037	-15106	-15094	-15036	25.00		3584	-15106	-15171	-15170	-15094	25.00	
3584	-15171	-15238	-15237	-15170	25.00		3584	-15238	-15304	-15303	-15237	25.00	
3584	-15966	-16032	-16031	-15965	25.00		3584	-16032	-16098	-16097	-16031	25.00	
3584	-16098	-16164	-16163	-16097	25.00		3584	-16164	-16230	-16229	-16163	25.00	
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3584	-16362	-16428	-16427	-16361	25.00		3584	-16428	-16494	-16493	-16427	25.00	
3584	-16494	-16560	-16559	-16493	25.00		3584	-16560	-16593	-16592	-16559	25.00	
3584	-15965	-16031	-16030	-15964	25.00		3584	-16031	-16097	-16096	-16030	25.00	
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3584	-13835	-13903	-13902	-13834	25.00		3584	-16248	-16247	-16181	-16182	25.00	
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3584	-15828	-15895	-15894	-15827	25.00		3584	-15895	-15961	-15960	-15894	25.00	

Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3584	-14857	-14856	-14790	-14791	25.00	3584	-15365	-15431	-15430	-15364	25.00
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3584	-12714	-12784	-12783	-12713	25.00			3584	-12784	-12854	-12853	-12783	25.00		

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3584	-12854	-12932	-12931	-12853	25.00				3584	-12932	-13015	-13014	-12931	25.00			
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3584	-10956	-11030	-11029	-10955	25.00				3584	-10903	-10890	-10825	-10826	25.00			
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Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3584	-11529	-11528	-11458	-11459	25.00		3584	-11459	-11458	-11388	-11389	25.00	
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## Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3630	-10785	-10784	-10842	-10843	25.00	3630	-10858	-10843	-10928	-10893	25.00
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3630	-13468	-13467	-13537	-13538	25.00	3630	-16068	-16069	-16135	-16134	25.00
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3630	-13868	-13867	-13935	-13936	25.00	3630	-11753	-11752	-11818	-11819	25.00
3630	-11819	-11818	-11882	-11883	25.00	3630	-11883	-11882	-12009	-11971	25.00
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3630	-15991	-15990	-16056	-16057	25.00	3630	-14274	-14275	-14341	-14340	25.00
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3630	-12441	-12440	-12547	-12528	25.00	3630	-11754	-11753	-11819	-11820	25.00
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3630	-11980	-11971	-12065	-12098	25.00	3630	-12098	-12065	-12119	-12113	25.00
3630	-15157	-15156	-15222	-15223	25.00	3630	-15207	-15208	-15275	-15274	25.00
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3630	-12681	-12682	-12753	-12752	25.00	3630	-13553	-13619	-13620	-13554	25.00
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3630	-11821	-11822	-11885	-11867	25.00	3630	-16194	-16193	-16259	-16260	25.00
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3630	-13264	-13333	-13334	-13265	25.00	3630	-10702	-10655	-10787	-10786	25.00
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3630	-13542	-13608	-13609	-13543	25.00	3630	-13608	-13674	-13675	-13609	25.00
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3630	-10443	-10504	-10505	-10444	25.00	3630	-15279	-15278	-15344	-15345	25.00
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3630	-14419	-14418	-14484	-14485	25.00	3630	-13750	-13816	-13817	-13751	25.00
3630	-10932	-10997	-10998	-10933	25.00	3630	-10789	-10790	-10861	-10860	25.00
3630	-14415	-14414	-14480	-14481	25.00	3630	-10375	-10444	-10426	-10376	25.00
3630	-10444	-10505	-10506	-10426	25.00	3630	-10505	-10553	-10541	-10506	25.00
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3630	-11076	-11141	-11142	-11077	25.00		3630	-11141	-11207	-11208	-11142	25.00	
3630	-11207	-11273	-11274	-11208	25.00		3630	-11273	-11345	-11346	-11274	25.00	
3630	-16331	-16332	-16398	-16397	25.00		3630	-15022	-15021	-15087	-15088	25.00	
3630	-15088	-15087	-15155	-15156	25.00		3630	-16329	-16330	-16396	-16395	25.00	
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Studio tecnico Ing. Giovanni Corti – via Monte Sabotino n. 60 - Poggibonsi

3630	-16145	-16144	-16210	-16211	25.00		3630	-16211	-16210	-16276	-16277	25.00	
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3630	-13590	-13656	-13657	-13591	25.00			3630	-13656	-13722	-13723	-13657	25.00		
3630	-13722	-13788	-13789	-13723	25.00			3630	-13788	-13854	-13855	-13789	25.00		
3630	-13854	-13922	-13923	-13855	25.00			3630	-13247	-13316	-13317	-13248	25.00		
3630	-13316	-13383	-13384	-13317	25.00			3630	-13383	-13455	-13456	-13384	25.00		
3630	-13455	-13525	-13526	-13456	25.00			3630	-13525	-13591	-13592	-13526	25.00		
3630	-13591	-13657	-13658	-13592	25.00			3630	-13657	-13723	-13724	-13658	25.00		
3630	-13723	-13789	-13790	-13724	25.00			3630	-13789	-13855	-13856	-13790	25.00		
3630	-13855	-13923	-13924	-13856	25.00			3630	-13248	-13317	-13318	-13249	25.00		
3630	-13317	-13384	-13385	-13318	25.00			3630	-13384	-13456	-13457	-13385	25.00		
3630	-13456	-13526	-13527	-13457	25.00			3630	-13526	-13592	-13593	-13527	25.00		
3630	-13592	-13658	-13659	-13593	25.00			3630	-13658	-13724	-13725	-13659	25.00		
3630	-13724	-13790	-13791	-13725	25.00			3630	-13790	-13856	-13857	-13791	25.00		
3630	-13856	-13924	-13925	-13857	25.00			3630	-13249	-13318	-13319	-13250	25.00		
3630	-13318	-13385	-13386	-13319	25.00			3630	-13385	-13457	-13458	-13386	25.00		
3630	-13457	-13527	-13528	-13458	25.00			3630	-13527	-13593	-13594	-13528	25.00		
3630	-13593	-13659	-13660	-13594	25.00			3630	-13659	-13725	-13726	-13660	25.00		
3630	-13725	-13791	-13792	-13726	25.00			3630	-13791	-13857	-13858	-13792	25.00		
3630	-13857	-13925	-13926	-13858	25.00			3630	-13250	-13319	-13320	-13251	25.00		
3630	-13319	-13386	-13387	-13320	25.00			3630	-13386	-13458	-13459	-13387	25.00		
3630	-13458	-13528	-13529	-13459	25.00			3630	-13528	-13594	-13595	-13529	25.00		
3630	-13594	-13660	-13661	-13595	25.00			3630	-13660	-13726	-13727	-13661	25.00		
3630	-13726	-13792	-13793	-13727	25.00			3630	-13792	-13858	-13859	-13793	25.00		
3630	-13858	-13926	-13927	-13859	25.00			3630	-13251	-13320	-13321	-13252	25.00		
3630	-13320	-13387	-13388	-13321	25.00			3630	-13387	-13459	-13460	-13388	25.00		
3630	-13459	-13529	-13530	-13460	25.00			3630	-13529	-13595	-13596	-13530	25.00		
3630	-11481	-11551	-11552	-11482	25.00			3630	-13661	-13727	-13728	-13662	25.00		
3630	-13727	-13793	-13794	-13728	25.00			3630	-13793	-13859	-13860	-13794	25.00		
3630	-13859	-13927	-13928	-13860	25.00			3630	-13252	-13321	-13322	-13253	25.00		
3630	-13321	-13388	-13389	-13322	25.00			3630	-13388	-13460	-13461	-13389	25.00		
3630	-13460	-13530	-13531	-13461	25.00			3630	-13530	-13596	-13597	-13531	25.00		
3630	-13596	-13662	-13663	-13597	25.00			3630	-13662	-13728	-13729	-13663	25.00		
3630	-13728	-13794	-13795	-13729	25.00			3630	-13794	-13860	-13861	-13795	25.00		
3630	-13860	-13928	-13929	-13861	25.00			3630	-13253	-13322	-13323	-13254	25.00		
3630	-13322	-13389	-13390	-13323	25.00			3630	-13389	-13461	-13462	-13390	25.00		
3630	-13461	-13531	-13532	-13462	25.00			3630	-13531	-13597	-13598	-13532	25.00		
3630	-13597	-13663	-13664	-13598	25.00			3630	-13663	-13729	-13730	-13664	25.00		
3630	-13729	-13795	-13796	-13730	25.00			3630	-13795	-13861	-13862	-13796	25.00		
3630	-13861	-13929	-13930	-13862	25.00			3630	-13254	-13323	-13324	-13255	25.00		
3630	-13323	-13390	-13391	-13324	25.00			3630	-13390	-13462	-13463	-13391	25.00		
3630	-13462	-13532	-13533	-13463	25.00			3630	-13532	-13598	-13599	-13533	25.00		
3630	-13598	-13664	-13665	-13599	25.00			3630	-13664	-13730	-13731	-13665	25.00		
3630	-13730	-13796	-13797	-13731	25.00			3630	-13796	-13862	-13863	-13797	25.00		
3630	-13862	-13930	-13931	-13863	25.00			3630	-13255	-13324	-13325	-13256	25.00		
3630	-13324	-13391	-13392	-13325	25.00			3630	-13391	-13463	-13464	-13392	25.00		
3630	-13463	-13533	-13534	-13464	25.00			3630	-13533	-13599	-13600	-13534	25.00		
3630	-13599	-13665	-13666	-13600	25.00			3630	-13665	-13731	-13732	-13666	25.00		
3630	-13731	-13797	-13798	-13732	25.00			3630	-13797	-13863	-13864	-13798	25.00		
3630	-13863	-13931	-13932	-13864	25.00			3630	-13256	-13325	-13326	-13257	25.00		



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3630	-13325	-13392	-13393	-13326	25.00		3630	-13392	-13464	-13465	-13393	25.00	
3630	-13464	-13534	-13535	-13465	25.00		3630	-13534	-13600	-13601	-13535	25.00	
3630	-13600	-13666	-13667	-13601	25.00		3630	-13666	-13732	-13733	-13667	25.00	
3630	-13732	-13798	-13799	-13733	25.00		3630	-13798	-13864	-13865	-13799	25.00	
3630	-13864	-13932	-13933	-13865	25.00		3630	-13257	-13326	-13327	-13258	25.00	
3630	-13326	-13393	-13394	-13327	25.00		3630	-13393	-13465	-13466	-13394	25.00	
3630	-13465	-13535	-13536	-13466	25.00		3630	-13535	-13601	-13602	-13536	25.00	
3630	-13601	-13667	-13668	-13602	25.00		3630	-13667	-13733	-13734	-13668	25.00	
3630	-13733	-13799	-13800	-13734	25.00		3630	-13799	-13865	-13866	-13800	25.00	
3630	-13865	-13933	-13934	-13866	25.00		3630	-12508	-12592	-12593	-12509	25.00	
3630	-12592	-12666	-12667	-12593	25.00		3630	-12666	-12737	-12738	-12667	25.00	
3630	-12737	-12807	-12808	-12738	25.00		3630	-12807	-12877	-12878	-12808	25.00	
3630	-12877	-12954	-12955	-12878	25.00		3630	-12954	-13038	-13039	-12955	25.00	
3630	-13038	-13105	-13106	-13039	25.00		3630	-13105	-13183	-13184	-13106	25.00	
3630	-13183	-13246	-13247	-13184	25.00		3630	-12509	-12593	-12594	-12510	25.00	
3630	-12593	-12667	-12668	-12594	25.00		3630	-12667	-12738	-12739	-12668	25.00	
3630	-12738	-12808	-12809	-12739	25.00		3630	-12808	-12878	-12879	-12809	25.00	
3630	-12878	-12955	-12956	-12879	25.00		3630	-12955	-13039	-13040	-12956	25.00	
3630	-13039	-13106	-13107	-13040	25.00		3630	-13106	-13184	-13185	-13107	25.00	
3630	-13184	-13247	-13248	-13185	25.00		3630	-12510	-12594	-12595	-12511	25.00	
3630	-12594	-12668	-12669	-12595	25.00		3630	-12668	-12739	-12740	-12669	25.00	
3630	-12739	-12809	-12810	-12740	25.00		3630	-12809	-12879	-12880	-12810	25.00	
3630	-12879	-12956	-12957	-12880	25.00		3630	-12956	-13040	-13041	-12957	25.00	
3630	-13040	-13107	-13108	-13041	25.00		3630	-13107	-13185	-13167	-13108	25.00	
3630	-13185	-13248	-13249	-13167	25.00		3630	-12511	-12595	-12596	-12512	25.00	
3630	-12595	-12669	-12670	-12596	25.00		3630	-12669	-12740	-12741	-12670	25.00	
3630	-12740	-12810	-12811	-12741	25.00		3630	-12810	-12880	-12881	-12811	25.00	
3630	-12880	-12957	-12968	-12881	25.00		3630	-12957	-13041	-13042	-12968	25.00	
3630	-13041	-13108	-13084	-13042	25.00		3630	-13108	-13167	-13186	-13084	25.00	
3630	-13167	-13249	-13250	-13186	25.00		3630	-12512	-12596	-12597	-12513	25.00	
3630	-12596	-12670	-12671	-12597	25.00		3630	-12670	-12741	-12742	-12671	25.00	
3630	-12741	-12811	-12812	-12742	25.00		3630	-12811	-12881	-12882	-12812	25.00	
3630	-12881	-12968	-12969	-12882	25.00		3630	-12968	-13042	-13043	-12969	25.00	
3630	-13042	-13084	-13109	-13043	25.00		3630	-13084	-13186	-13168	-13109	25.00	
3630	-13186	-13250	-13251	-13168	25.00		3630	-12513	-12597	-12598	-12525	25.00	
3630	-12597	-12671	-12672	-12598	25.00		3630	-12671	-12742	-12743	-12672	25.00	
3630	-12742	-12812	-12813	-12743	25.00		3630	-12812	-12882	-12883	-12813	25.00	
3630	-12882	-12969	-12958	-12883	25.00		3630	-12969	-13043	-13044	-12958	25.00	
3630	-13043	-13109	-13110	-13044	25.00		3630	-13109	-13168	-13187	-13110	25.00	
3630	-13168	-13251	-13252	-13187	25.00		3630	-12903	-12983	-12984	-12904	25.00	
3630	-12598	-12672	-12673	-12599	25.00		3630	-12672	-12743	-12744	-12673	25.00	
3630	-12743	-12813	-12814	-12744	25.00		3630	-12813	-12883	-12884	-12814	25.00	
3630	-12883	-12958	-12959	-12884	25.00		3630	-12958	-13044	-13045	-12959	25.00	
3630	-13044	-13110	-13111	-13045	25.00		3630	-13110	-13187	-13188	-13111	25.00	
3630	-13187	-13252	-13253	-13188	25.00		3630	-12514	-12599	-12600	-12515	25.00	
3630	-12599	-12673	-12674	-12600	25.00		3630	-12673	-12744	-12745	-12674	25.00	
3630	-12744	-12814	-12815	-12745	25.00		3630	-12814	-12884	-12885	-12815	25.00	
3630	-12884	-12959	-12960	-12885	25.00		3630	-12959	-13045	-13046	-12960	25.00	
3630	-13045	-13111	-13112	-13046	25.00		3630	-13111	-13188	-13189	-13112	25.00	
3630	-13188	-13253	-13254	-13189	25.00		3630	-12515	-12600	-12601	-12516	25.00	
3630	-12600	-12674	-12675	-12601	25.00		3630	-12674	-12745	-12746	-12675	25.00	
3630	-12745	-12815	-12816	-12746	25.00		3630	-12815	-12885	-12886	-12816	25.00	
3630	-12885	-12960	-12970	-12886	25.00		3630	-12960	-13046	-13047	-12970	25.00	
3630	-13046	-13112	-13113	-13047	25.00		3630	-13112	-13189	-13190	-13113	25.00	
3630	-13189	-13254	-13255	-13190	25.00		3630	-12516	-12601	-12602	-12526	25.00	
3630	-12601	-12675	-12676	-12602	25.00		3630	-12675	-12746	-12747	-12676	25.00	
3630	-12746	-12816	-12817	-12747	25.00		3630	-12816	-12886	-12887	-12817	25.00	
3630	-12886	-12970	-12961	-12887	25.00		3630	-12970	-13047	-13048	-12961	25.00	
3630	-13047	-13113	-13114	-13048	25.00		3630	-13113	-13190	-13169	-13114	25.00	
3630	-13190	-13255	-13256	-13169	25.00		3630	-12526	-12602	-12603	-12527	25.00	
3630	-12602	-12676	-12677	-12603	25.00		3630	-12676	-12747	-12748	-12677	25.00	
3630	-12747	-12817	-12818	-12748	25.00		3630	-12817	-12887	-12888	-12818	25.00	
3630	-12887	-12961	-12971	-12888	25.00		3630	-12961	-13048	-13049	-12971	25.00	
3630	-13048	-13114	-13115	-13049	25.00		3630	-13114	-13169	-13191	-13115	25.00	
3630	-13169	-13256	-13257	-13191	25.00		3630	-12527	-12603	-12604	-12547	25.00	
3630	-12603	-12677	-12678	-12604	25.00		3630	-12677	-12748	-12749	-12678	25.00	
3630	-12748	-12818	-12819	-12749	25.00		3630	-12818	-12888	-12889	-12819	25.00	
3630	-12888	-12971	-12972	-12889	25.00		3630	-12971	-13049	-13050	-12972	25.00	
3630	-13049	-13115	-13127	-13050	25.00		3630	-13115	-13191	-13192	-13127	25.00	
3630	-13191	-13257	-13258	-13192	25.00		3630	-11060	-11122	-11123	-11061	25.00	
3630	-11122	-11188	-11189	-11123	25.00		3630	-11188	-11254	-11255	-11189	25.00	
3630	-11254	-11326	-11327	-11255	25.00		3630	-11326	-11392	-11393	-11327	25.00	
3630	-11392	-11462	-11463	-11393	25.00		3630	-11462	-11532	-11533	-11463	25.00	
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3630	-11676	-11740	-11741	-11677	25.00		3630	-11061	-11123	-11124	-11062	25.00	
3630	-11123	-11189	-11190	-11124	25.00		3630	-11189	-11255	-11256	-11190	25.00	
3630	-11255	-11327	-11328	-11256	25.00		3630	-11327	-11393	-11394	-11328	25.00	
3630	-11393	-11463	-11464	-11394	25.00		3630	-11463	-11533	-11534	-11464	25.00	
3630	-11533	-11603	-11604	-11534	25.00		3630	-11603	-11677	-11663	-11604	25.00	

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3630	-11677	-11741	-11742	-11663	25.00		3630	-11062	-11124	-11125	-11038	25.00	
3630	-11124	-11190	-11191	-11125	25.00		3630	-11190	-11256	-11257	-11191	25.00	
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3630	-11534	-11604	-11605	-11535	25.00		3630	-11604	-11663	-11664	-11605	25.00	
3630	-11663	-11742	-11743	-11664	25.00		3630	-11038	-11125	-11126	-11063	25.00	
3630	-11125	-11191	-11192	-11126	25.00		3630	-11191	-11257	-11258	-11192	25.00	
3630	-11257	-11329	-11330	-11258	25.00		3630	-11329	-11395	-11396	-11330	25.00	
3630	-11395	-11465	-11466	-11396	25.00		3630	-11465	-11535	-11536	-11466	25.00	
3630	-11535	-11605	-11606	-11536	25.00		3630	-11605	-11664	-11667	-11606	25.00	
3630	-11664	-11743	-11744	-11678	25.00		3630	-11063	-11126	-11127	-11050	25.00	
3630	-11126	-11192	-11193	-11127	25.00		3630	-11192	-11258	-11259	-11193	25.00	
3630	-11258	-11330	-11331	-11259	25.00		3630	-11330	-11396	-11397	-11331	25.00	
3630	-11396	-11466	-11467	-11397	25.00		3630	-11466	-11536	-11537	-11467	25.00	
3630	-11536	-11606	-11607	-11537	25.00		3630	-11606	-11678	-11665	-11607	25.00	
3630	-11678	-11744	-11745	-11665	25.00		3630	-11050	-11127	-11128	-11051	25.00	
3630	-11127	-11193	-11194	-11128	25.00		3630	-11193	-11259	-11260	-11194	25.00	
3630	-11259	-11331	-11332	-11260	25.00		3630	-11331	-11397	-11398	-11332	25.00	
3630	-11397	-11467	-11468	-11398	25.00		3630	-11467	-11537	-11538	-11468	25.00	
3630	-11537	-11607	-11608	-11538	25.00		3630	-11607	-11665	-11666	-11608	25.00	
3630	-11665	-11745	-11746	-11666	25.00		3630	-11051	-11128	-11129	-11064	25.00	
3630	-11128	-11194	-11195	-11129	25.00		3630	-11194	-11260	-11261	-11195	25.00	
3630	-11260	-11332	-11333	-11261	25.00		3630	-11332	-11398	-11399	-11333	25.00	
3630	-11398	-11468	-11469	-11399	25.00		3630	-11468	-11538	-11539	-11469	25.00	
3630	-11538	-11608	-11609	-11539	25.00		3630	-11608	-11666	-11679	-11609	25.00	
3630	-11666	-11746	-11747	-11679	25.00		3630	-11064	-11129	-11130	-11065	25.00	
3630	-11129	-11195	-11196	-11130	25.00		3630	-11195	-11261	-11262	-11196	25.00	
3630	-11261	-11333	-11334	-11262	25.00		3630	-11333	-11399	-11400	-11334	25.00	
3630	-11399	-11469	-11470	-11400	25.00		3630	-11469	-11539	-11540	-11470	25.00	
3630	-11539	-11609	-11610	-11540	25.00		3630	-11609	-11679	-11667	-11610	25.00	
3630	-11679	-11747	-11748	-11667	25.00		3630	-11065	-11130	-11131	-11066	25.00	
3630	-11130	-11196	-11197	-11131	25.00		3630	-11196	-11262	-11263	-11197	25.00	
3630	-11262	-11334	-11335	-11263	25.00		3630	-11334	-11400	-11401	-11335	25.00	
3630	-11400	-11470	-11471	-11401	25.00		3630	-11470	-11540	-11541	-11471	25.00	
3630	-11540	-11610	-11611	-11541	25.00		3630	-11610	-11667	-11680	-11611	25.00	
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3630	-12898	-12978	-12979	-12899	25.00		3630	-12695	-12766	-12767	-12696	25.00	
3630	-13408	-13480	-13481	-13409	25.00		3630	-11693	-11759	-11760	-11694	25.00	
3630	-13550	-13616	-13617	-13551	25.00		3630	-13935	-13934	-14004	-14005	25.00	
3630	-11347	-11413	-11414	-11348	25.00		3630	-13137	-13209	-13210	-13138	25.00	
3630	-13209	-13275	-13276	-13210	25.00		3630	-13880	-13948	-13949	-13881	25.00	
3630	-13273	-13342	-13343	-13274	25.00		3630	-12696	-12767	-12768	-12697	25.00	
3630	-14206	-14205	-14271	-14272	25.00		3630	-13481	-13551	-13552	-13482	25.00	
3630	-13551	-13617	-13618	-13552	25.00		3630	-12987	-13068	-13069	-12988	25.00	
3630	-13068	-13138	-13139	-13069	25.00		3630	-11280	-11352	-11353	-11281	25.00	
3630	-13815	-13881	-13882	-13816	25.00		3630	-13881	-13949	-13950	-13882	25.00	
3630	-13274	-13343	-13344	-13275	25.00		3630	-13343	-13410	-13411	-13344	25.00	
3630	-13410	-13482	-13483	-13411	25.00		3630	-13482	-13552	-13553	-13483	25.00	
3630	-12908	-12988	-12989	-12909	25.00		3630	-12988	-13069	-13070	-12989	25.00	
3630	-13684	-13750	-13751	-13685	25.00		3630	-15535	-15534	-15600	-15601	25.00	
3630	-13816	-13882	-13883	-13817	25.00		3630	-13882	-13950	-13951	-13883	25.00	
3630	-15733	-15732	-15798	-15799	25.00		3630	-15799	-15798	-15864	-15865	25.00	
3630	-15865	-15864	-15931	-15932	25.00		3630	-13483	-13553	-13554	-13484	25.00	
3630	-11412	-11482	-11483	-11413	25.00		3630	-12687	-12758	-12759	-12688	25.00	
3630	-12617	-12691	-12692	-12618	25.00		3630	-11216	-11282	-11283	-11217	25.00	
3630	-11354	-11420	-11421	-11355	25.00		3630	-11078	-11143	-11144	-11079	25.00	
3630	-11143	-11209	-11210	-11144	25.00		3630	-13345	-13412	-13413	-13346	25.00	
3630	-13063	-13133	-13134	-13064	25.00		3630	-12984	-13065	-13066	-12985	25.00	
3630	-13205	-13271	-13272	-13206	25.00		3630	-12538	-12618	-12619	-12539	25.00	
3630	-11553	-11623	-11624	-11554	25.00		3630	-11623	-11695	-11696	-11624	25.00	
3630	-12763	-12833	-12834	-12764	25.00		3630	-11421	-11491	-11492	-11422	25.00	
3630	-11491	-11561	-11562	-11492	25.00		3630	-12983	-13064	-13065	-12984	25.00	
3630	-13064	-13134	-13135	-13065	25.00		3630	-13485	-13555	-13556	-13486	25.00	
3630	-13206	-13272	-13273	-13207	25.00		3630	-11484	-11554	-11555	-11485	25.00	
3630	-11554	-11624	-11625	-11555	25.00		3630	-11624	-11696	-11697	-11625	25.00	
3630	-12764	-12834	-12835	-12765	25.00		3630	-12623	-12697	-12698	-12624	25.00	
3630	-11145	-11211	-11212	-11146	25.00		3630	-13201	-13267	-13268	-13202	25.00	
3630	-12686	-12757	-12758	-12687	25.00		3630	-12757	-12827	-12828	-12758	25.00	
3630	-11415	-11485	-11486	-11416	25.00		3630	-11153	-11219	-11220	-11154	25.00	
3630	-11555	-11625	-11626	-11556	25.00		3630	-11625	-11697	-11698	-11626	25.00	
3630	-11697	-11763	-11764	-11698	25.00		3630	-11081	-11146	-11147	-11082	25.00	
3630	-12548	-12613	-12614	-12549	25.00		3630	-12613	-12687	-12688	-12614	25.00	
3630	-13204	-13270	-13271	-13205	25.00		3630	-11705	-11771	-11772	-11706	25.00	

3630	-12828	-12898	-12899	-12829	25.00		3630	-11350	-11416	-11417	-11351	25.00	
3630	-12978	-13059	-13060	-12979	25.00		3630	-11556	-11626	-11627	-11557	25.00	
3630	-12766	-12836	-12837	-12767	25.00		3630	-13061	-13131	-13132	-13062	25.00	
3630	-13131	-13203	-13204	-13132	25.00		3630	-13133	-13205	-13206	-13134	25.00	
3630	-12688	-12759	-12760	-12689	25.00		3630	-12759	-12829	-12830	-12760	25.00	
3630	-12829	-12899	-12900	-12830	25.00		3630	-12899	-12979	-12980	-12900	25.00	
3630	-11557	-11627	-11628	-11558	25.00		3630	-13060	-13121	-13131	-13061	25.00	
3630	-13121	-13202	-13203	-13131	25.00		3630	-13202	-13268	-13269	-13203	25.00	
3630	-12549	-12615	-12616	-12536	25.00		3630	-12615	-12689	-12690	-12616	25.00	
3630	-11214	-11280	-11281	-11215	25.00		3630	-11352	-11418	-11419	-11353	25.00	
3630	-11418	-11488	-11489	-11419	25.00		3630	-11488	-11558	-11559	-11489	25.00	
3630	-11284	-11356	-11357	-11285	25.00		3630	-12902	-12982	-12983	-12903	25.00	
3630	-12982	-13063	-13064	-12983	25.00		3630	-13203	-13269	-13270	-13204	25.00	
3630	-12536	-12616	-12617	-12537	25.00		3630	-11215	-11281	-11282	-11216	25.00	
3630	-12690	-12761	-12762	-12691	25.00		3630	-12761	-12831	-12832	-12762	25.00	
3630	-11419	-11489	-11490	-11420	25.00		3630	-11489	-11559	-11560	-11490	25.00	
3630	-12981	-13062	-13063	-12982	25.00		3630	-13062	-13132	-13133	-13063	25.00	
3630	-13132	-13204	-13205	-13133	25.00		3630	-12985	-13066	-13067	-12986	25.00	
3630	-13066	-13136	-13137	-13067	25.00		3630	-11278	-11350	-11351	-11279	25.00	
3630	-11633	-11705	-11682	-11634	25.00		3630	-12619	-12693	-12694	-12620	25.00	
3630	-12832	-12902	-12903	-12833	25.00		3630	-14471	-14470	-14536	-14537	25.00	
3630	-14404	-14403	-14469	-14470	25.00		3630	-12904	-12984	-12985	-12905	25.00	
3630	-11492	-11562	-11563	-11493	25.00		3630	-11632	-11704	-11705	-11633	25.00	
3630	-11085	-11151	-11152	-11086	25.00		3630	-12618	-12692	-12693	-12619	25.00	
3630	-12692	-12763	-12764	-12693	25.00		3630	-11283	-11355	-11356	-11284	25.00	
3630	-11695	-11761	-11762	-11696	25.00		3630	-11487	-11557	-11558	-11488	25.00	
3630	-12767	-12837	-12838	-12768	25.00		3630	-11561	-11631	-11632	-11562	25.00	
3630	-13134	-13206	-13207	-13135	25.00		3630	-11348	-11414	-11415	-11349	25.00	
3630	-12539	-12619	-12620	-12550	25.00		3630	-11563	-11633	-11634	-11564	25.00	
3630	-12693	-12764	-12765	-12694	25.00		3630	-13210	-13276	-13277	-13211	25.00	
3630	-11218	-11284	-11285	-11219	25.00		3630	-12835	-12905	-12906	-12836	25.00	
3630	-12697	-12768	-12769	-12698	25.00		3630	-12768	-12838	-12839	-12769	25.00	
3630	-11704	-11770	-11771	-11705	25.00		3630	-11087	-11153	-11154	-11088	25.00	
3630	-13069	-13139	-13140	-13070	25.00		3630	-12620	-12694	-12695	-12621	25.00	
3630	-12694	-12765	-12766	-12695	25.00		3630	-11357	-11423	-11424	-11358	25.00	
3630	-11077	-11142	-11143	-11078	25.00		3630	-11423	-11493	-11494	-11424	25.00	
3630	-11629	-11701	-11702	-11630	25.00		3630	-15272	-15271	-15337	-15338	25.00	
3630	-11212	-11278	-11279	-11213	25.00		3630	-11703	-11769	-11770	-11704	25.00	
3630	-11351	-11417	-11418	-11352	25.00		3630	-12541	-12622	-12623	-12542	25.00	
3630	-11152	-11218	-11219	-11153	25.00		3630	-11417	-11487	-11488	-11418	25.00	
3630	-15667	-15666	-15732	-15733	25.00		3630	-12837	-12907	-12908	-12838	25.00	
3630	-11700	-11766	-11767	-11701	25.00		3630	-11084	-11149	-11150	-11039	25.00	
3630	-11149	-11215	-11216	-11150	25.00		3630	-14536	-14535	-14605	-14606	25.00	
3630	-13139	-13211	-13212	-13140	25.00		3630	-12622	-12696	-12697	-12623	25.00	
3630	-11281	-11353	-11354	-11282	25.00		3630	-11219	-11285	-11286	-11220	25.00	
3630	-11559	-11629	-11630	-11560	25.00		3630	-12907	-12987	-12988	-12908	25.00	
3630	-14272	-14271	-14337	-14338	25.00		3630	-11562	-11632	-11633	-11563	25.00	
3630	-11146	-11212	-11213	-11147	25.00		3630	-11285	-11357	-11358	-11286	25.00	
3630	-13211	-13277	-13278	-13212	25.00		3630	-14537	-14536	-14606	-14607	25.00	
3630	-15601	-15600	-15666	-15667	25.00		3630	-15469	-15468	-15534	-15535	25.00	
3630	-14470	-14469	-14535	-14536	25.00		3630	-11217	-11283	-11284	-11218	25.00	
3630	-11353	-11419	-11420	-11354	25.00		3630	-11627	-11699	-11700	-11628	25.00	



## Criteri di progetto utilizzati

### Aste in acciaio

<b>Generali</b>	
<b>Verifica aste in acciaio</b>	
Numero punti di verifica	10.00
Numero CC da considerare di tipo I	99.00
<b>Stati limite D.M. 18</b>	
Verifiche con EC3	No
Coeff. amplificativo sollecitazioni per effetti del secondo ordine	1.00
<b>Stampe</b>	
Verifiche da riportare in relazione	Tutte

Specifici	1	2	3	4	5	6	7	8	9	10
<b>Materiali</b>										
CNR 10011										
Tipo di acciaio	FE430	FE360	FE510	FE360	FE360	FE360	FE360	FE360	FE360	FE360
D.M. 18										
Tipo di acciaio per profilati a sezione aperta	S275	S235	S450	S235	S235	S235	S235	S235	S235	S235
	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN
	10025-2	10025-2	10025-2	10025-2	10025-2	10025-2	10025-2	10025-2	10025-2	10025-2
Tipo di acciaio per profilati a sezione cava	S275H	S235H	S355H	S235H	S235H	S235H	S235H	S235H	S235H	S235H
	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN	UNI EN
	10210-1	10210-1	10210-1	10210-1	10210-1	10210-1	10210-1	10210-1	10210-1	10210-1
EC3										
Tipo di acciaio	S275	S235	S355	S235	S235	S235	S235	S235	S235	S235
-Fy <daN/cm²>	2750.00	2350.00	3550.00	2350.00	2350.00	2350.00	2350.00	2350.00	2350.00	2350.00
-Fu <daN/cm²>	4300.00	3600.00	5100.00	3600.00	3600.00	3600.00	3600.00	3600.00	3600.00	3600.00
-Fy,40 <daN/cm²>	2550.00	2150.00	3350.00	2150.00	2150.00	2150.00	2150.00	2150.00	2150.00	2150.00
-Fu,40 <daN/cm²>	4100.00	3600.00	4700.00	3600.00	3600.00	3600.00	3600.00	3600.00	3600.00	3600.00
γ M0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
γ M1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
γ M2	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
γ Rd	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
γ Ov	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
-Considera come elemento esistente (S.L. D.M. 18/EC3)	No	No	No	No	No	No	No	No	No	No
-Livello di conoscenza	LC1	LC1	LC1	LC1	LC1	LC1	LC1	LC1	LC1	LC1
-Fattore di confidenza	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
<b>Verifiche di resistenza</b>										
Rapporto fra area effettiva e area nominale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Rapporto fra area netta e area nominale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Coeff. di forma intorno all'asse Y	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Coeff. di forma intorno all'asse Z	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Verifica le bielle solo con sollecitazioni di trazione moltiplicate per	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Valutare la τ per torsione nei punti di spigolo (CNR 10011)	No	No	No	No	No	No	No	No	No	No
-Parl a										
<b>Stati limite D.M. 18/EC3</b>										
-Elemento dissipativo	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Effettua le verifiche della gerarchia delle resistenze per strutture intelaiate	No	No	No	Si	Si	Si	Si	Si	Si	Si
-Usa classe 1 in pressoflessione deviata se non presente in archivio	No	No	No	No	No	No	No	No	No	No
-Verifica in campo plastico elemento non dissipativo	No	No	No	No	No	No	No	No	No	No
<b>Stati limite D.M. 18</b>										
-Usa prescrizioni EC3 quando più dettagliate	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Considera prescrizioni relative ai ponti	No	No	No	No	No	No	No	No	No	No
<b>Verifiche di deformabilità</b>										
Max valore del rapporto tra la luce e la freccia (totale)	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00
Max valore del rapporto tra la luce e la freccia (solo accidentali)	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
Max valore del rapporto tra altezza e spostamento orizz. (aste)	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
Max valore del rapporto tra altezza e spostamento orizz. (membrature)	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00
Considerare anche spostamento relativo nodi per calcolo freccia	No	No	No	No	No	No	No	No	No	No
Considerare solo la verifica di deformabilità delle membrature	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Trascura deformazione dovuta al sisma (T.A.)	No	No	No	No	No	No	No	No	No	No
<b>Verifiche di stabilità asta</b>										
Riduzione lunghezza libera d'inflexione										
-Distanza fra i nodi dell'asta	x	x	x	x	x	x	x	x	x	x

-Distanza ridotta delle zone rigide moltiplicate per il valore											
Tipo di accoppiamento aste composte											
-Separate											
-Calastrellate											
-Imbottite											
-Automatico	x	x	x	x	x	x	x	x	x	x	x
Calcolo momento medio usando valori assoluti	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Interasse calastrelli o imbottiture											
-Distanza pari a <m>											
-Interasse da normativa moltiplicato per il valore	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
-Aste rigidamente collegate											
Curva di stabilità (D.M. 18/EC3)	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica	Automatica
Aste laminate	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Sigma max amm. senza verifiche di stabilità (CNR 10011) <%>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Verifiche di stabilità globale in dir. Y locale	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Coeff. $\beta$ intorno all'asse Y	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Verifiche di stabilità globale in dir. Z locale	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Coeff. $\beta$ intorno all'asse Z	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Verifiche di stabilità flessione - torsionale	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Coeff. per calcolo interasse ritegni torsionali	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Aste inflesse (D.M. 18/EC3)											
-Coeff. $\Psi$ per calcolo momento critico											
-Valuta in base ai momenti dell'asta	x	x	x	x	x	x	x	x	x	x	x
-Utilizza valore imposto											
-Fattore correttivo di distribuzione $K_c$	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
-Snellezza di riferimento $\lambda_{1T,0}$	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
-Coeff. $\beta$	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Aste pressoinflesse (D.M. 18/EC3)											
-Considera come molto deformabile a torsione	No	No	No	No	No	No	No	No	No	No	No
-Fattore correttivo di distribuzione	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
$\alpha_{Mx}/C_{Mx}$											
-Fattore correttivo di distribuzione	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
$\alpha_{Mz}/C_{Mz}$											
-Fattore correttivo di distribuzione	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
$\alpha_{Mz}/C_{Mz}$											
Eseguire anche le verifiche al punto 7.3.2 (CNR 10011)	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Carichi sull'estradosso (CNR 10011)	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Verifiche di stabilità all'imbozzamento (CNR 10011)											
-Numero irrigidimenti orizzontali anima	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-Interasse irrigidimenti verticali anima											
-Numero di suddivisioni											
-Distanza non inferiore a <cm>											
-Pari alla lunghezza dell'asta	x	x	x	x	x	x	x	x	x	x	x
-Modalità di calcolo $\sigma_{cr,id}$											
-Normativa											
-Massonet	x	x	x	x	x	x	x	x	x	x	x
-Ballio											
<b>Verifiche di stabilità membratura</b>											
Massimo numero aste costituenti unica membratura	20.00	20.00	20.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sforzo normale di verifica											
-Massimo valore fra tutte le aste	x	x	x	x	x	x	x	x	x	x	x
-Media aritmetica dei valori di tutte le aste											
-Media pesata di tutte le aste											
Contributo eventuali sforzi di trazione	No	No	No	No	No	No	No	No	No	No	No
Verifica nei piani principali	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Incremento snellezza	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
Verifiche di stabilità globale in dir. Y locale	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Coeff. $\beta$ calcolato in funzione dello sforzo normale											
-Coeff. $\beta$	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Verifiche di stabilità globale in dir. Z locale	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si	Si
-Coeff. $\beta$ calcolato in funzione dello sforzo normale											
-Coeff. $\beta$	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>Dati per verifiche di resistenza al fuoco</b>											
-Tempo di verifica (REI) <minuti>	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
-Fattore di momento uniforme equivalente $\beta_{M,y}$	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
-Fattore di momento uniforme equivalente $\beta_{M,z}$	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
-Fattore di momento uniforme equivalente $\beta_{M,LT}$	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10



## Impalcato “B” – Verifiche acciaio

### Simbologia

Sez.	=	Numero della sezione
Cod.	=	Codice
Tipo	=	Tipologia
		2C = Doppia C lato labbri
		2Cdx = Doppia C lato costola
		2I = Doppia I
		2L = Doppia L lato labbri
		2Ldx = Doppia L lato costole
		C = Sezione a C
		Cdx = C destra
		Cir. = Circolare
		Cir.c = Circolare cava
		I = Sezione a I
		L = Sezione a L
		Ldx = L destra
		Om. = Omega
		Pg = Pi greco
		Pr = Poligono regolare
		Prc = Poligono regolare cavo
		Pc = Per coordinate
		Ia = Inerzie assegnate
		R = Rettangolare
		Rc = Rettangolare cava
		T = Sezione a T
		U = Sezione a U
		Ur = U rovescia
		V = Sezione a V
		Vr = V rovescia
		Z = Sezione a Z
		Zdx = Z destra
		Ts = T stondata
		Ls = L stondata
		Cs = C stondata
		Is = I stondata
		Dis. = Disegnata
D	<cm>	= Distanza
Area	<cmq>	= Area
Anet	<cmq>	= Area netta per compressione
Aeff	<cmq>	= Area effettiva per trazione
Jy	<cm4>	= Momento d'inerzia rispetto all'asse Y
Jz	<cm4>	= Momento d'inerzia rispetto all'asse Z
Iy	<cm>	= Raggio giratorio d'inerzia rispetto all'asse Y
Iz	<cm>	= Raggio giratorio d'inerzia rispetto all'asse Z
Wymin	<cmc>	= Modulo di resistenza minimo rispetto all'asse Y
Wzmin	<cmc>	= Modulo di resistenza minimo rispetto all'asse Z
Tp		= Tipo di acciaio
Fyk	<daN/cmq>	= Tensione caratteristica di snervamento dell'acciaio
Fyt	<daN/cmq>	= Tensione caratteristica di rottura
Wy,plas	<cmc>	= Modulo di resistenza plastico intorno all'asse Y
Wz,plas	<cmc>	= Modulo di resistenza plastico intorno all'asse Z
Atag,y	<cmq>	= Area resistente a taglio in dir. Y
Atag,z	<cmq>	= Area resistente a taglio in dir. Z
J <sub>0</sub>	<cm6>	= Costante di ingobbamento
CC		= Numero della combinazione delle condizioni di carico elementari
Xl	<cm>	= Coordinata progressiva (dal nodo iniziale dell'asta) in cui viene effettuato il progetto/verifica
N	<daN>	= Sforzo normale
T	<daN>	= Taglio agente
M	<daNm>	= Momento agente
Mx	<daNm>	= Momento torcente intorno all'asse X
N,Ed	<daN>	= Forza assiale di calcolo
Nc,Rd	<daN>	= Resistenza a compressione
My,Ed	<daNm>	= Momento flettente di calcolo
My,c,Rd	<daNm>	= Resistenza di calcolo a flessione
MN,c,Rd	<daNm>	= Resistenza di calcolo a pressoflessione
V,Ed	<daN>	= Forza di taglio di calcolo
Vc,Rd,Red	<daN>	= Resistenza a taglio ridotta
σ <sub>N</sub>	<daN/cmq>	= Tensione normale per sforzo normale
σ <sub>M</sub>	<daN/cmq>	= Tensione normale per momento flettente
τ	<daN/cmq>	= Tensione tangenziale per taglio e/o torsione
σ <sub>ID,max</sub>	<daN/cmq>	= Tensione ideale massima
My,c,Rd	<daNm>	= Resistenza di calcolo a flessione intorno all'asse Y
L	<cm>	= Lunghezza dell'asta
λ		= Snellezza per inflessione
Ncr	<daN>	= Sforzo normale critico euleriano
λ*		= Snellezza adimensionale
Curva		= Curva di instabilità adottata
Φ		= Coefficiente Φ
χ <sub>y,min</sub>		= Coefficiente χ di riduzione per instabilità
Tz	<daN>	= Taglio in dir. Z
My	<daNm>	= Momento flettente intorno all'asse Y
Ty	<daN>	= Taglio in dir. Y
Mz	<daNm>	= Momento flettente intorno all'asse Z
My,Ed	<daNm>	= Momento flettente di calcolo intorno all'asse Y
Mz,Ed	<daNm>	= Momento flettente di calcolo intorno all'asse Z
Mz,c,Rd	<daNm>	= Resistenza di calcolo a flessione intorno all'asse Z
α <sub>My</sub> , α <sub>Mz</sub> , α <sub>LT</sub>		= Coefficienti correttivi per il momento flettente
λ <sub>y</sub>		= Snellezza per inflessione intorno all'asse y(c)
Ncr,y	<daN>	= Sforzo normale critico euleriano per inflessione intorno all'asse y(c)
λ <sub>y</sub> *		= Snellezza adimensionale per inflessione intorno all'asse y(c)
Φ <sub>y</sub>		= Coefficiente Φ per inflessione intorno all'asse y(c)

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$\chi_y$	=	Coefficiente $\chi$ di riduzione per instabilità intorno all'asse y(c)
$\lambda_z$	=	Snellezza per inflessione intorno all'asse z(e)
Ncr,z	<daN>	=Sforzo normale critico euleriano per inflessione intorno all'asse z(e)
$\lambda'_z$	=	Snellezza adimensionale per inflessione intorno all'asse z(e)
$\Phi_z$	=	Coefficiente $\Phi$ per inflessione intorno all'asse z(e)
$\chi_z$	=	Coefficiente $\chi$ di riduzione per instabilità intorno all'asse z(e)
Kyy, Kyz, Kzy, Kzz	=	Coefficienti di interazione
Vc,Rd	<daN>	=Resistenza a taglio
Npl,Rd	<daN>	=Resistenza plastica a trazione per sezione lorda
Nu,Rd	<daN>	=Resistenza a rottura di trazione per sezione netta
Nt,Rd	<daN>	=Resistenza a trazione ultima
MNy,c,Rd	<daNm>	=Resistenza di calcolo a pressoflessione intorno all'asse Y
Nb,Rd	<daN>	=Resistenza all'instabilità
fz,l	<cm>	=Freccia in direzione Z locale
fz,g	<cm>	=Freccia in direzione Z globale

**Caratteristiche profilati utilizzati**

Sez.	Cod.	Tipo	D <cm>	Area <cmq>	Anet <cmq>	Aeff <cmq>	Jy <cm4>	Jz <cm4>	Iy <cm>	Iz <cm>	Wymin <cm>	Wzmin <cm>	Tp	Fyk <daN/cm>	Fyt <daN/cm>
31	Tubo circolare d=114.3x6 mm - S355	Cir.c	114.3	20.41	20.41	20.41	300.21	300.21	3.83	3.83	52.53	52.53	S355H UNI EN 10210-1	3550.00	5100.00
32	Tubo 60x80x5 mm - S355	Rc	60	13.00	13.00	13.00	113.08	71.08	2.95	2.34	28.27	23.69	S355H UNI EN 10210-1	3550.00	5100.00
33	Tubo 60x100x5 mm - S355	Rc	60	15.00	15.00	15.00	196.25	86.25	3.62	2.40	39.25	28.75	S355H UNI EN 10210-1	3550.00	5100.00
34	Tubo 80x120x5 mm - S355	Rc	80	19.00	19.00	19.00	375.58	197.58	4.45	3.22	62.60	49.40	S355H UNI EN 10210-1	3550.00	5100.00
38	Tubo 80x80x4 mm - S235	Rc	80	12.16	12.16	12.16	117.39	117.39	3.11	3.11	29.35	29.35	S235H UNI EN 10210-1	2350.00	3600.00
39	Tubo circolare d=70x4 mm - S355	Cir.c	70	8.29	8.29	8.29	45.33	45.33	2.34	2.34	12.95	12.95	S355H UNI EN 10210-1	3550.00	5100.00
48	Tubo circolare d=101.6x6 mm - S355	Cir.c	101.6	18.02	18.02	18.02	206.68	206.68	3.39	3.39	40.68	40.68	S355H UNI EN 10210-1	3550.00	5100.00
50	Tubo circolare d=90x4 mm - S355	Cir.c	90	10.81	10.81	10.81	100.13	100.13	3.04	3.04	22.25	22.25	S355H UNI EN 10210-1	3550.00	5100.00
53	Tubo 60x60x4 mm - S235	Rc	60	8.96	8.96	8.96	47.07	47.07	2.29	2.29	15.69	15.69	S235H UNI EN 10210-1	2350.00	3600.00
59	Tubo circolare d=139.7x6 mm - S355	Cir.c	139.7	25.20	25.20	25.20	564.26	564.26	4.73	4.73	80.78	80.78	S355H UNI EN 10210-1	3550.00	5100.00
61	Tubo 60x120x4 mm - S235	Rc	60	13.76	13.76	13.76	255.20	84.77	4.31	2.48	42.53	28.26	S235H UNI EN 10210-1	2350.00	3600.00
68	Tubo 80x100x(2x5+6) mm - S355 (32)	Rc	80	26.24	26.24	26.24	350.56	243.17	3.66	3.04	70.11	60.79	S355H UNI EN 10210-1	3550.00	5100.00

**Caratteristiche profilati utilizzati**

Sez.	Cod.	Wy, plas <cm>	Wz, plas <cm>	Atag, y <cmq>	Atag, z <cmq>	J $\phi$ <cm6>
31	Tubo circolare d=114.3x6 mm - S355	68.72	68.72	13.00	13.00	
32	Tubo 60x80x5 mm - S355	34.75	28.25	5.57	7.43	
33	Tubo 60x100x5 mm - S355	48.75	33.75	5.63	9.38	
34	Tubo 80x120x5 mm - S355	76.25	57.25	7.60	11.40	
38	Tubo 80x80x4 mm - S235	34.69	34.69	6.08	6.08	
39	Tubo circolare d=70x4 mm - S355	17.02	17.02	5.28	5.28	
48	Tubo circolare d=101.6x6 mm - S355	53.56	53.56	11.47	11.47	
50	Tubo circolare d=90x4 mm - S355	28.88	28.88	6.88	6.88	
53	Tubo 60x60x4 mm - S235	18.85	18.85	4.48	4.48	
59	Tubo circolare d=139.7x6 mm - S355	104.70	104.70	16.04	16.04	
61	Tubo 60x120x4 mm - S235	52.93	32.29	4.59	9.17	
68	Tubo 80x100x(2x5+6) mm - S355 (32)	87.10	73.98	11.66	14.58	

Asta n. 2355 (2309 -2524) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.12 - Classe 1  
Sollecitazioni: N=18106.10 T=648.71 M=423.04 Mx=111.27  
M,Ed=423.04 M,c,Rd=1810.99  
N,Ed=18106.10 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.30  
MN,c,Rd=1272.79 M,Ed/MN,c,Rd=0.33
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.12  
Sollecitazioni: N=18106.10 T=648.71 M=423.04 Mx=111.27  
V,Ed=648.71 Vc,Rd,Red=20825.10 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.12 - Classe 3  
Sollecitazioni: N=10509.20 T=515.57 M=328.49 Mx=65.99  
Tensioni:  $\sigma_N=583.19$   $\sigma_M=807.40$   $\tau=81.09$   $\sigma_{max}=1390.58$   
Tensioni:  $\sigma_N=583.19$   $\sigma_M=-0.00$   $\tau=138.17$   $\tau_{max}=138.17$   
Tensioni:  $\sigma_N=583.19$   $\sigma_M=807.40$   $\tau=81.09$   $\sigma_{ID,max}=1397.66$

Asta n. 2355 (-2524 -2490) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.98 - Classe 1  
Sollecitazioni: N=25166.20 T=191.43 M=149.66 Mx=102.59  
M,Ed=149.66 M,c,Rd=1810.99  
N,Ed=25166.20 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.41  
MN,c,Rd=1062.93 M,Ed/MN,c,Rd=0.14
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=25164.60 T=192.08 M=57.52 Mx=102.59  
V,Ed=192.08 Vc,Rd,Red=20947.50 V,Ed/Vc,Rd,Red=0.01

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- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni:  $N=11896.80$   $T=81.08$   $M=66.83$   $M_x=49.88$   
Tensioni:  $\sigma_N=660.19$   $\sigma_M=164.26$   $\tau=61.30$   $\sigma_{max}=824.45$   
Tensioni:  $\sigma_N=660.19$   $\sigma_M=-0.00$   $\tau=70.27$   $\tau_{max}=70.27$   
Tensioni:  $\sigma_N=660.19$   $\sigma_M=164.26$   $\tau=61.30$   $\sigma_{ID,max}=831.26$

Asta n. 2355 (-2490 -2480) Tubo circolare  $d=101.6 \times 6$  mm - S355 Crit. 3

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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni:  $N=31591.30$   $T=142.15$   $M=123.80$   $M_x=62.38$   
 $M,Ed=123.80$   $M,c,Rd=1810.99$   
 $N,Ed=31591.30$   $Nc,Rd=60925.30$   $n=N,Ed/Nc,Rd=0.52$   
 $MN,c,Rd=871.95$   $M,Ed/MN,c,Rd=0.14$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=31754.50$   $T=150.50$   $M=65.03$   $M_x=41.79$   
 $V,Ed=150.50$   $Vc,Rd,Red=21804.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni:  $N=13572.40$   $T=65.30$   $M=55.51$   $M_x=33.33$   
Tensioni:  $\sigma_N=753.18$   $\sigma_M=136.44$   $\tau=40.97$   $\sigma_{max}=889.62$   
Tensioni:  $\sigma_N=753.18$   $\sigma_M=-0.00$   $\tau=48.20$   $\tau_{max}=48.20$   
Tensioni:  $\sigma_N=753.18$   $\sigma_M=136.44$   $\tau=40.97$   $\sigma_{ID,max}=892.45$

Asta n. 2355 (-2480 -2473) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3

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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni:  $N=36068.10$   $T=156.06$   $M=143.73$   $M_x=40.94$   
 $M,Ed=143.73$   $M,c,Rd=2323.44$   
 $N,Ed=36068.10$   $Nc,Rd=69019.00$   $n=N,Ed/Nc,Rd=0.52$   
 $MN,c,Rd=1109.25$   $M,Ed/MN,c,Rd=0.13$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=36479.90$   $T=161.95$   $M=51.18$   $M_x=22.57$   
 $V,Ed=161.95$   $Vc,Rd,Red=25089.60$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni:  $N=15133.40$   $T=68.83$   $M=62.63$   $M_x=27.29$   
Tensioni:  $\sigma_N=741.32$   $\sigma_M=119.22$   $\tau=25.98$   $\sigma_{max}=860.54$   
Tensioni:  $\sigma_N=741.32$   $\sigma_M=-0.00$   $\tau=32.71$   $\tau_{max}=32.71$   
Tensioni:  $\sigma_N=741.32$   $\sigma_M=119.22$   $\tau=25.98$   $\sigma_{ID,max}=861.72$

Asta n. 2355 (-2473 -2460) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3

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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni:  $N=39325.20$   $T=98.39$   $M=127.36$   $M_x=30.04$   
 $M,Ed=127.36$   $M,c,Rd=2323.44$   
 $N,Ed=39325.20$   $Nc,Rd=69019.00$   $n=N,Ed/Nc,Rd=0.57$   
 $MN,c,Rd=999.61$   $M,Ed/MN,c,Rd=0.13$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=39931.00$   $T=107.75$   $M=53.74$   $M_x=17.03$   
 $V,Ed=107.75$   $Vc,Rd,Red=25158.30$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni:  $N=16413.40$   $T=46.15$   $M=59.22$   $M_x=25.01$   
Tensioni:  $\sigma_N=804.02$   $\sigma_M=112.73$   $\tau=23.81$   $\sigma_{max}=916.76$   
Tensioni:  $\sigma_N=804.02$   $\sigma_M=-0.00$   $\tau=28.32$   $\tau_{max}=28.32$   
Tensioni:  $\sigma_N=804.02$   $\sigma_M=112.73$   $\tau=23.81$   $\sigma_{ID,max}=917.69$

Asta n. 2355 (-2460 -2434) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3

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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni:  $N=41496.50$   $T=69.82$   $M=109.53$   $M_x=27.15$   
 $M,Ed=109.53$   $M,c,Rd=2323.44$   
 $N,Ed=41496.50$   $Nc,Rd=69019.00$   $n=N,Ed/Nc,Rd=0.60$   
 $MN,c,Rd=926.51$   $M,Ed/MN,c,Rd=0.12$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=42239.40$   $T=78.22$   $M=53.86$   $M_x=20.73$   
 $V,Ed=78.22$   $Vc,Rd,Red=25112.40$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
 Sollecitazioni:  $N=17308.20$   $T=33.08$   $M=54.17$   $M_x=28.26$   
 Tensioni:  $\sigma_N=847.86$   $\sigma_M=103.12$   $\tau=26.90$   $\sigma_{max}=950.98$   
 Tensioni:  $\sigma_N=847.86$   $\sigma_M=-0.00$   $\tau=30.13$   $\tau_{max}=30.13$   
 Tensioni:  $\sigma_N=847.86$   $\sigma_M=103.12$   $\tau=26.90$   $\sigma_{ID,max}=952.12$

Asta n. 2355 (-2434 -2429) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.98$  - Classe 1  
 Sollecitazioni:  $N=43814.50$   $T=91.08$   $M=143.72$   $M_x=34.85$   
 $M,Ed=143.72$   $M,c,Rd=3539.85$   
 $N,Ed=43814.50$   $Nc,Rd=85206.20$   $n=N,Ed/Nc,Rd=0.51$   
 $MN,c,Rd=1719.59$   $M,Ed/MN,c,Rd=0.08$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=43815.60$   $T=110.03$   $M=48.77$   $M_x=34.85$   
 $V,Ed=110.03$   $Vc,Rd,Red=30972.60$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
 Sollecitazioni:  $N=17971.60$   $T=47.87$   $M=68.07$   $M_x=40.14$   
 Tensioni:  $\sigma_N=713.11$   $\sigma_M=84.26$   $\tau=24.84$   $\sigma_{max}=797.37$   
 Tensioni:  $\sigma_N=713.11$   $\sigma_M=-0.00$   $\tau=28.64$   $\tau_{max}=28.64$   
 Tensioni:  $\sigma_N=713.11$   $\sigma_M=84.26$   $\tau=24.84$   $\sigma_{ID,max}=798.53$

Asta n. 2355 (-2429 -2421) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
 Sollecitazioni:  $N=43074.20$   $T=114.36$   $M=201.96$   $M_x=47.72$   
 $M,Ed=201.96$   $M,c,Rd=3539.85$   
 $N,Ed=43074.20$   $Nc,Rd=85206.20$   $n=N,Ed/Nc,Rd=0.51$   
 $MN,c,Rd=1750.35$   $M,Ed/MN,c,Rd=0.12$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
 Sollecitazioni:  $N=43074.20$   $T=114.36$   $M=201.96$   $M_x=47.72$   
 $V,Ed=114.36$   $Vc,Rd,Red=30844.80$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.98$  - Classe 3  
 Sollecitazioni:  $N=18135.50$   $T=90.04$   $M=101.88$   $M_x=48.91$   
 Tensioni:  $\sigma_N=719.61$   $\sigma_M=126.12$   $\tau=30.28$   $\sigma_{max}=845.73$   
 Tensioni:  $\sigma_N=719.61$   $\sigma_M=-0.00$   $\tau=37.41$   $\tau_{max}=37.41$   
 Tensioni:  $\sigma_N=719.61$   $\sigma_M=126.12$   $\tau=30.28$   $\sigma_{ID,max}=847.36$

Asta n. 2355 (-2421 -2418) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=43311.10$   $T=268.79$   $M=194.50$   $M_x=46.11$   
 $M,Ed=194.50$   $M,c,Rd=3539.85$   
 $N,Ed=43311.10$   $Nc,Rd=85206.20$   $n=N,Ed/Nc,Rd=0.51$   
 $MN,c,Rd=1740.51$   $M,Ed/MN,c,Rd=0.11$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=43311.10$   $T=268.79$   $M=194.50$   $M_x=46.11$   
 $V,Ed=268.79$   $Vc,Rd,Red=30860.80$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.98$  - Classe 3  
 Sollecitazioni:  $N=18126.20$   $T=157.97$   $M=136.54$   $M_x=32.72$   
 Tensioni:  $\sigma_N=719.24$   $\sigma_M=169.02$   $\tau=20.25$   $\sigma_{max}=888.26$   
 Tensioni:  $\sigma_N=719.24$   $\sigma_M=-0.00$   $\tau=32.77$   $\tau_{max}=32.77$   
 Tensioni:  $\sigma_N=719.24$   $\sigma_M=169.02$   $\tau=20.25$   $\sigma_{ID,max}=888.95$

Asta n. 2370 (2308 -2523) Tubo circolare  $d=101.6 \times 6$  mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 68 SLU  $X_l=0.12$  - Classe 1  
 Sollecitazioni:  $N=11479.00$   $T=895.67$   $M=632.16$   $M_x=-189.62$   
 $M,Ed=632.16$   $M,c,Rd=1810.99$   
 $N,Ed=11479.00$   $Nc,Rd=60925.30$   $n=N,Ed/Nc,Rd=0.19$   
 $MN,c,Rd=1469.78$   $M,Ed/MN,c,Rd=0.43$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=0.12$   
 Sollecitazioni:  $N=11479.00$   $T=895.67$   $M=632.16$   $M_x=-189.62$

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V,Ed=895.67 Vc,Rd,Red=19720.50 V,Ed/Vc,Rd,Red=0.05

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.12 - Classe 3  
Sollecitazioni: N=9972.44 T=563.24 M=373.13 M<sub>x</sub>=-130.53  
Tensioni:  $\sigma_N=553.40$   $\sigma_M=917.14$   $\tau=160.42$   $\sigma_{max}=1470.54$   
Tensioni:  $\sigma_N=553.40$   $\sigma_M=-0.00$   $\tau=222.77$   $\tau_{max}=222.77$   
Tensioni:  $\sigma_N=553.40$   $\sigma_M=917.14$   $\tau=160.42$   $\sigma_{ID,max}=1496.56$

Asta n. 2370 (-2523 -2489) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.98 - Classe 1  
Sollecitazioni: N=25023.10 T=190.61 M=157.63 M<sub>x</sub>=-132.20  
M,Ed=157.63 M,c,Rd=1810.99  
N,Ed=25023.10 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.41  
MN,c,Rd=1067.18 M,Ed/MN,c,Rd=0.15
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=17603.30 T=236.82 M=61.89 M<sub>x</sub>=-183.73  
V,Ed=236.82 Vc,Rd,Red=19803.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.98 - Classe 3  
Sollecitazioni: N=11805.80 T=87.14 M=70.09 M<sub>x</sub>=-61.36  
Tensioni:  $\sigma_N=655.15$   $\sigma_M=172.29$   $\tau=75.41$   $\sigma_{max}=827.43$   
Tensioni:  $\sigma_N=655.15$   $\sigma_M=-0.00$   $\tau=85.06$   $\tau_{max}=85.06$   
Tensioni:  $\sigma_N=655.15$   $\sigma_M=172.29$   $\tau=75.41$   $\sigma_{ID,max}=837.68$

Asta n. 2370 (-2489 -2479) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.98 - Classe 1  
Sollecitazioni: N=31599.80 T=131.86 M=132.22 M<sub>x</sub>=-82.29  
M,Ed=132.22 M,c,Rd=1810.99  
N,Ed=31599.80 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.52  
MN,c,Rd=871.70 M,Ed/MN,c,Rd=0.15
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=31784.00 T=167.00 M=63.45 M<sub>x</sub>=-53.51  
V,Ed=167.00 Vc,Rd,Red=21639.50 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.98 - Classe 3  
Sollecitazioni: N=13701.60 T=67.48 M=60.36 M<sub>x</sub>=-38.07  
Tensioni:  $\sigma_N=760.35$   $\sigma_M=148.35$   $\tau=46.78$   $\sigma_{max}=908.70$   
Tensioni:  $\sigma_N=760.35$   $\sigma_M=-0.00$   $\tau=54.25$   $\tau_{max}=54.25$   
Tensioni:  $\sigma_N=760.35$   $\sigma_M=148.35$   $\tau=46.78$   $\sigma_{ID,max}=912.31$

Asta n. 2370 (-2479 -2472) Tubo circolare d=114.3x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.98 - Classe 1  
Sollecitazioni: N=36191.00 T=147.55 M=147.29 M<sub>x</sub>=-58.21  
M,Ed=147.29 M,c,Rd=2323.44  
N,Ed=36191.00 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.52  
MN,c,Rd=1105.11 M,Ed/MN,c,Rd=0.13
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=36616.70 T=182.04 M=57.95 M<sub>x</sub>=-34.97  
V,Ed=182.04 Vc,Rd,Red=24936.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.98 - Classe 3  
Sollecitazioni: N=15464.10 T=71.80 M=65.92 M<sub>x</sub>=-28.58  
Tensioni:  $\sigma_N=757.52$   $\sigma_M=125.49$   $\tau=27.20$   $\sigma_{max}=883.02$   
Tensioni:  $\sigma_N=757.52$   $\sigma_M=-0.00$   $\tau=34.22$   $\tau_{max}=34.22$   
Tensioni:  $\sigma_N=757.52$   $\sigma_M=125.49$   $\tau=27.20$   $\sigma_{ID,max}=884.27$

Asta n. 2370 (-2472 -2459) Tubo circolare d=114.3x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.98 - Classe 1  
Sollecitazioni: N=39511.30 T=86.13 M=128.24 M<sub>x</sub>=-42.93  
M,Ed=128.24 M,c,Rd=2323.44  
N,Ed=39511.30 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.57  
MN,c,Rd=993.34 M,Ed/MN,c,Rd=0.13
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00

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Sollecitazioni: N=40125.70 T=121.73 M=51.52  $M_x=-26.87$   
V,Ed=121.73 Vc,Rd,Red=25036.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni: N=16802.20 T=47.52 M=60.96  $M_x=-26.46$   
Tensioni:  $\sigma_N=823.07$   $\sigma_M=116.05$   $\tau=25.18$   $\sigma_{max}=939.12$   
Tensioni:  $\sigma_N=823.07$   $\sigma_M=-0.00$   $\tau=29.83$   $\tau_{max}=29.83$   
Tensioni:  $\sigma_N=823.07$   $\sigma_M=116.05$   $\tau=25.18$   $\sigma_{ID,max}=940.13$

Asta n. 2370 (-2459 -2433) Tubo circolare d=114.3x6 mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni: N=41713.30 T=57.72 M=111.07  $M_x=-37.01$   
M,Ed=111.07 M,c,Rd=2323.44  
N,Ed=41713.30 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.60  
MN,c,Rd=919.21 M,Ed/MN,c,Rd=0.12
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 74 SLU  $X_l=0.00$   
Sollecitazioni: N=33624.60 T=91.95 M=35.37  $M_x=-23.53$   
V,Ed=91.95 Vc,Rd,Red=25077.80 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni: N=17916.90 T=54.39 M=57.83  $M_x=-41.37$   
Tensioni:  $\sigma_N=877.67$   $\sigma_M=110.10$   $\tau=39.38$   $\sigma_{max}=987.77$   
Tensioni:  $\sigma_N=877.67$   $\sigma_M=-0.00$   $\tau=44.70$   $\tau_{max}=44.70$   
Tensioni:  $\sigma_N=877.67$   $\sigma_M=110.10$   $\tau=39.38$   $\sigma_{ID,max}=990.12$

Asta n. 2370 (-2433 -2428) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni: N=43214.50 T=78.16 M=148.46  $M_x=-43.65$   
M,Ed=148.46 M,c,Rd=3539.85  
N,Ed=43214.50 Nc,Rd=85206.20 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=1744.52 M,Ed/MN,c,Rd=0.09
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni: N=44052.80 T=126.80 M=47.82  $M_x=-42.29$   
V,Ed=126.80 Vc,Rd,Red=30898.70 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni: N=18974.30 T=70.78 M=73.32  $M_x=-60.23$   
Tensioni:  $\sigma_N=752.89$   $\sigma_M=90.76$   $\tau=37.28$   $\sigma_{max}=843.65$   
Tensioni:  $\sigma_N=752.89$   $\sigma_M=-0.00$   $\tau=42.89$   $\tau_{max}=42.89$   
Tensioni:  $\sigma_N=752.89$   $\sigma_M=90.76$   $\tau=37.28$   $\sigma_{ID,max}=846.12$

Asta n. 2370 (-2428 -2420) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni: N=43319.10 T=103.32 M=203.89  $M_x=-53.60$   
M,Ed=203.89 M,c,Rd=3539.85  
N,Ed=43319.10 Nc,Rd=85206.20 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=1740.18 M,Ed/MN,c,Rd=0.12
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni: N=44215.40 T=127.95 M=100.30  $M_x=-54.61$   
V,Ed=127.95 Vc,Rd,Red=30776.40 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni: N=19381.20 T=102.81 M=118.33  $M_x=-58.04$   
Tensioni:  $\sigma_N=769.04$   $\sigma_M=146.48$   $\tau=35.93$   $\sigma_{max}=915.52$   
Tensioni:  $\sigma_N=769.04$   $\sigma_M=-0.00$   $\tau=44.07$   $\tau_{max}=44.07$   
Tensioni:  $\sigma_N=769.04$   $\sigma_M=146.48$   $\tau=35.93$   $\sigma_{ID,max}=917.63$

Asta n. 2370 (-2420 -2417) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni: N=43580.90 T=262.75 M=195.20  $M_x=-48.97$   
M,Ed=195.20 M,c,Rd=3539.85  
N,Ed=43580.90 Nc,Rd=85206.20 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=1729.30 M,Ed/MN,c,Rd=0.11

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=43580.90$   $T=262.75$   $M=195.20$   $M_x=-48.97$   
 $V, Ed=262.75$   $V_c, Rd, Red=30832.40$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.98$  - Classe 3  
Sollecitazioni:  $N=19352.10$   $T=163.37$   $M=157.13$   $M_x=-38.73$   
Tensioni:  $\sigma_N=767.89$   $\sigma_M=194.52$   $\tau=23.97$   $\sigma_{max}=962.40$   
Tensioni:  $\sigma_N=767.89$   $\sigma_M=-0.00$   $\tau=36.92$   $\tau_{max}=36.92$   
Tensioni:  $\sigma_N=767.89$   $\sigma_M=194.52$   $\tau=23.97$   $\sigma_{ID, max}=963.30$

Asta n. 2461 (2308 -11071) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N, Ed=-12873.40$   $M, Ed=1.74$   
Resistenze:  $N_c, Rd=36538.20$   $M, c, Rd=976.45$   $L=133.65$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=43.91$   $N_{cr}=116175.00$   $\lambda^*=0.57$   
Curva a:  $\Phi=0.70$   $\chi, \text{min}=0.90$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.09, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.39+0.00=0.39$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/5287)  $f_{z,L}=0.01$  (L/19873)

- Verifica Freccia massima carichi totali - CC 77  
 $f_{z,g}=0.03$  (L/4651)  $f_{z,L}=0.01$  (L/10843)

- Verifica a compressione [4.2.9] - CC 75 SLU  $X_l=0.12$  - Classe 1  
Sollecitazioni:  $N=-12873.40$   $T=5.72$   $M_x=-42.44$   
 $N, Ed=-12873.40$   $N_c, Rd=-36538.20$   $N, Ed/N_c, Rd=0.35$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=0.12$   
Sollecitazioni:  $N=-10070.40$   $T=5.72$   $M_x=-69.16$   
 $V, Ed=5.72$   $V_c, Rd, Red=12360.80$   $V, Ed/V_c, Rd, Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.73$  - Classe 3  
Sollecitazioni:  $N=-8881.09$   $M=1.29$   $M_x=-49.75$   
Tensioni:  $\sigma_N=-821.78$   $\sigma_M=-5.79$   $\tau=111.80$   $\sigma_{max}=-827.58$   
Tensioni:  $\sigma_N=-821.78$   $\sigma_M=5.70$   $\tau=111.80$   $\tau_{max}=111.80$   
Tensioni:  $\sigma_N=-821.78$   $\sigma_M=-5.79$   $\tau=111.80$   $\sigma_{ID, max}=849.93$

Asta n. 2463 (2309 -11075) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni:  $N, Ed=-12292.90$   $M, Ed=1.74$   
Resistenze:  $N_c, Rd=36538.20$   $M, c, Rd=976.45$   $L=133.65$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=43.91$   $N_{cr}=116175.00$   $\lambda^*=0.57$   
Curva a:  $\Phi=0.70$   $\chi, \text{min}=0.90$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.08, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.37+0.00=0.38$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/5282)  $f_{z,L}=0.01$  (L/20211)

- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,g}=0.02$  (L/4888)  $f_{z,L}=0.01$  (L/8652)

- Verifica a compressione [4.2.9] - CC 54 SLU  $X_l=0.12$  - Classe 1  
Sollecitazioni:  $N=-12292.90$   $T=5.72$   $M_x=47.57$   
 $N, Ed=-12292.90$   $N_c, Rd=-36538.20$   $N, Ed/N_c, Rd=0.34$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=1.34$   
Sollecitazioni:  $N=-12284.90$   $T=5.72$   $M_x=47.57$   
 $V, Ed=5.72$   $V_c, Rd, Red=12694.60$   $V, Ed/V_c, Rd, Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.73$  - Classe 3  
Sollecitazioni:  $N=-8454.64$   $M=1.29$   $M_x=27.04$   
Tensioni:  $\sigma_N=-782.32$   $\sigma_M=-5.81$   $\tau=60.76$   $\sigma_{max}=-788.13$   
Tensioni:  $\sigma_N=-782.32$   $\sigma_M=5.03$   $\tau=60.76$   $\tau_{max}=60.76$   
Tensioni:  $\sigma_N=-782.32$   $\sigma_M=-5.81$   $\tau=60.76$   $\sigma_{ID, max}=795.13$

Asta n. 2465 (2308 -11754) Tubo circolare d=90x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
 Sollecitazioni: N,Ed=-9684.04 M,Ed=5.52  
 Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=216.24  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{ ----, ----}$   
 $\lambda=71.04$  Ncr=44380.60  $\lambda^*=0.93$   
 Curva a:  $\Phi=1.01$   $\chi_{,min}=0.71$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.21, \text{ ----, ----, ----}$   
 Verifica: 0.37+0.01=0.38
  
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9875)  $f_{z,L}=0.01$  (L/35550)
  
  - Verifica Freccia massima carichi totali - CC 56  
 $f_{z,g}=0.02$  (L/8688)  $f_{z,L}=0.02$  (L/12241)
  
  - Verifica a compressione [4.2.9] - CC 75 SLU Xl=0.13 - Classe 1  
 Sollecitazioni: N=-9684.04 T=10.86  $M_x=-41.82$   
 N,Ed=-9684.04 Nc,Rd=-36538.20 N,Ed/Nc,Rd=0.27
  
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU Xl=2.16  
 Sollecitazioni: N=-7843.08 T=10.86  $M_x=-77.05$   
 V,Ed=10.86 Vc,Rd,Red=12238.90 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.14 - Classe 3  
 Sollecitazioni: N=-6606.57 M=4.09  $M_x=-44.29$   
 Tensioni:  $\sigma_N=-611.32$   $\sigma_M=-18.39$   $\tau=99.52$   $\sigma_{max}=-629.71$   
 Tensioni:  $\sigma_N=-611.32$   $\sigma_M=18.11$   $\tau=99.52$   $\tau_{max}=99.52$   
 Tensioni:  $\sigma_N=-611.32$   $\sigma_M=-18.39$   $\tau=99.52$   $\sigma_{ID,max}=652.88$

Asta n. 2466 (2309 -11758) Tubo circolare d=90x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
 Sollecitazioni: N,Ed=-9308.44 M,Ed=5.53  
 Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=216.24  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{ ----, ----}$   
 $\lambda=71.04$  Ncr=44380.60  $\lambda^*=0.93$   
 Curva a:  $\Phi=1.01$   $\chi_{,min}=0.71$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.20, \text{ ----, ----, ----}$   
 Verifica: 0.36+0.01=0.36
  
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9859)  $f_{z,L}=0.01$  (L/35575)
  
  - Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/8838)  $f_{z,L}=0.01$  (L/13996)
  
  - Verifica a compressione [4.2.9] - CC 54 SLU Xl=0.13 - Classe 1  
 Sollecitazioni: N=-9308.44 T=10.87  $M_x=42.50$   
 N,Ed=-9308.44 Nc,Rd=-36538.20 N,Ed/Nc,Rd=0.25
  
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=2.16  
 Sollecitazioni: N=-8185.93 T=10.87  $M_x=45.36$   
 V,Ed=10.87 Vc,Rd,Red=12728.80 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.14 - Classe 3  
 Sollecitazioni: N=-6577.73 M=4.10  $M_x=23.85$   
 Tensioni:  $\sigma_N=-608.65$   $\sigma_M=-18.41$   $\tau=53.60$   $\sigma_{max}=-627.07$   
 Tensioni:  $\sigma_N=-608.65$   $\sigma_M=0.00$   $\tau=53.60$   $\tau_{max}=53.60$   
 Tensioni:  $\sigma_N=-608.65$   $\sigma_M=-18.41$   $\tau=53.60$   $\sigma_{ID,max}=633.90$

Asta n. 2589 (2312 -11787) Tubo circolare d=90x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
 Sollecitazioni: N,Ed=-8947.76 M,Ed=6.02  
 Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=216.24  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{ ----, ----}$   
 $\lambda=71.04$  Ncr=44380.70  $\lambda^*=0.93$   
 Curva a:  $\Phi=1.01$   $\chi_{,min}=0.71$



Kyy, Kyz, Kzy, Kzz=1.19, ----, ----, ----  
Verifica: 0.34+0.01=0.35

- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.02 (L/9835) f<sub>z,L</sub>=0.00 (L/92820)
- Verifica Freccia massima carichi totali - CC 26  
f<sub>z,g</sub>=0.02 (L/9379) f<sub>z,L</sub>=0.01 (L/17268)
- Verifica a compressione [4.2.9] - CC 75 SLU Xl=0.04 - Classe 1  
Sollecitazioni: N=-8947.76 T=11.34 M<sub>x</sub>=36.97  
N,Ed=-8947.76 Nc,Rd=-36538.20 N,Ed/Nc,Rd=0.24
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU Xl=2.16  
Sollecitazioni: N=-6682.68 T=11.34 M<sub>x</sub>=68.68  
V,Ed=11.34 Vc,Rd,Red=12368.30 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.09 - Classe 3  
Sollecitazioni: N=-3771.75 M=4.46 M<sub>x</sub>=39.44  
Tensioni: σ<sub>N</sub>=-349.01 σ<sub>M</sub>=-20.06 τ=88.62 σ<sub>max</sub>=-369.06  
Tensioni: σ<sub>N</sub>=-349.01 σ<sub>M</sub>=17.37 τ=88.62 τ<sub>max</sub>=88.62  
Tensioni: σ<sub>N</sub>=-349.01 σ<sub>M</sub>=-20.06 τ=88.62 σ<sub>ID,max</sub>=399.71

Asta n. 2590 (2313 -11791) Tubo circolare d=90x4 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni: N,Ed=-8860.18 M,Ed=6.03  
Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=216.24  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, ----, ----  
λ=71.04 Ncr=44380.70 λ<sup>\*</sup>=0.93  
Curva a: Φ=1.01 χ<sub>min</sub>=0.71  
Kyy, Kyz, Kzy, Kzz=1.19, ----, ----, ----  
Verifica: 0.34+0.01=0.35
- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.02 (L/9841) f<sub>z,L</sub>=0.00 (L/92882)
- Verifica Freccia massima carichi totali - CC 26  
f<sub>z,g</sub>=0.02 (L/9405) f<sub>z,L</sub>=0.01 (L/17415)
- Verifica a compressione [4.2.9] - CC 54 SLU Xl=0.04 - Classe 1  
Sollecitazioni: N=-8860.18 T=11.35 M<sub>x</sub>=-37.39  
N,Ed=-8860.18 Nc,Rd=-36538.20 N,Ed/Nc,Rd=0.24
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=2.16  
Sollecitazioni: N=-8619.12 T=11.35 M<sub>x</sub>=-39.95  
V,Ed=11.35 Vc,Rd,Red=12812.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.09 - Classe 3  
Sollecitazioni: N=-3675.49 M=4.47 M<sub>x</sub>=-20.41  
Tensioni: σ<sub>N</sub>=-340.10 σ<sub>M</sub>=-20.08 τ=45.87 σ<sub>max</sub>=-360.18  
Tensioni: σ<sub>N</sub>=-340.10 σ<sub>M</sub>=-0.00 τ=45.87 τ<sub>max</sub>=45.87  
Tensioni: σ<sub>N</sub>=-340.10 σ<sub>M</sub>=-20.08 τ=45.87 σ<sub>ID,max</sub>=368.84

Asta n. 2593 (2313 -11107) Tubo circolare d=90x4 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni: N,Ed=-11793.70 M,Ed=1.94  
Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=133.65  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, ----, ----  
λ=43.91 Ncr=116175.00 λ<sup>\*</sup>=0.57  
Curva a: Φ=0.70 χ<sub>min</sub>=0.90  
Kyy, Kyz, Kzy, Kzz=1.08, ----, ----, ----  
Verifica: 0.36+0.00=0.36
- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.02 (L/5314) f<sub>z,L</sub>=0.00 (L/36410)
- Verifica Freccia massima carichi totali - CC 26  
f<sub>z,g</sub>=0.03 (L/4971) f<sub>z,L</sub>=0.01 (L/14485)

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- Verifica a compressione [4.2.9] - CC 54 SLU  $X_l=0.05$  - Classe 1  
Sollecitazioni:  $N=-11793.70$   $T=6.03$   $M_x=-32.05$   
 $N, Ed=-11793.70$   $N_c, Rd=-36538.20$   $N, Ed/N_c, Rd=0.32$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-11793.70$   $T=6.03$   $M_x=-32.05$   
 $V, Ed=6.03$   $V_c, Rd, Red=12934.50$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.69$  - Classe 3  
Sollecitazioni:  $N=-5232.57$   $M=1.43$   $M_x=-18.90$   
Tensioni:  $\sigma_N=-484.18$   $\sigma_M=-6.45$   $\tau=42.48$   $\sigma_{max}=-490.63$   
Tensioni:  $\sigma_N=-484.18$   $\sigma_M=-0.00$   $\tau=42.48$   $\tau_{max}=42.48$   
Tensioni:  $\sigma_N=-484.18$   $\sigma_M=-6.45$   $\tau=42.48$   $\sigma_{ID, max}=496.12$
- Asta n. 2594 (2312 -11103) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N, Ed=-12005.60$   $M, Ed=1.93$   
Resistenze:  $N_c, Rd=36538.20$   $M, c, Rd=976.45$   $L=133.65$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=43.91$   $N_{cr}=116175.00$   $\lambda'=0.57$   
Curva a:  $\Phi=0.70$   $\chi, \text{min}=0.90$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.08, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.37+0.00=0.37$
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z, g}=0.02$  (L/5297)  $f_{z, L}=0.00$  (L/37379)
  - Verifica Freccia massima carichi totali - CC 26  
 $f_{z, g}=0.03$  (L/4965)  $f_{z, L}=0.01$  (L/15291)
  - Verifica a compressione [4.2.9] - CC 75 SLU  $X_l=0.05$  - Classe 1  
Sollecitazioni:  $N=-12005.60$   $T=6.02$   $M_x=27.30$   
 $N, Ed=-12005.60$   $N_c, Rd=-36538.20$   $N, Ed/N_c, Rd=0.33$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-8785.07$   $T=6.02$   $M_x=43.37$   
 $V, Ed=6.02$   $V_c, Rd, Red=12759.50$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.69$  - Classe 3  
Sollecitazioni:  $N=-5704.18$   $M=1.43$   $M_x=36.32$   
Tensioni:  $\sigma_N=-527.82$   $\sigma_M=-6.43$   $\tau=81.62$   $\sigma_{max}=-534.25$   
Tensioni:  $\sigma_N=-527.82$   $\sigma_M=-6.05$   $\tau=81.62$   $\tau_{max}=81.62$   
Tensioni:  $\sigma_N=-527.82$   $\sigma_M=-6.43$   $\tau=81.62$   $\sigma_{ID, max}=552.64$
- Asta n. 2687 (-2417 -2422) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.98$  - Classe 1  
Sollecitazioni:  $N=43580.20$   $T=265.44$   $M=195.17$   $M_x=50.02$   
 $M, Ed=195.17$   $M, c, Rd=3539.85$   
 $N, Ed=43580.20$   $N_c, Rd=85206.20$   $n=N, Ed/N_c, Rd=0.51$   
 $MN, c, Rd=1729.33$   $M, Ed/MN, c, Rd=0.11$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_l=0.98$   
Sollecitazioni:  $N=43580.20$   $T=265.44$   $M=195.17$   $M_x=50.02$   
 $V, Ed=265.44$   $V_c, Rd, Red=30822.00$   $V, Ed/V_c, Rd, Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=19355.80$   $T=150.12$   $M=155.60$   $M_x=29.28$   
Tensioni:  $\sigma_N=768.03$   $\sigma_M=192.62$   $\tau=18.12$   $\sigma_{max}=960.65$   
Tensioni:  $\sigma_N=768.03$   $\sigma_M=-0.00$   $\tau=30.02$   $\tau_{max}=30.02$   
Tensioni:  $\sigma_N=768.03$   $\sigma_M=192.62$   $\tau=18.12$   $\sigma_{ID, max}=961.16$
- Asta n. 2687 (-2422 -2430) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=43318.20$   $T=105.98$   $M=204.37$   $M_x=54.44$   
 $M, Ed=204.37$   $M, c, Rd=3539.85$   
 $N, Ed=43318.20$   $N_c, Rd=85206.20$   $n=N, Ed/N_c, Rd=0.51$   
 $MN, c, Rd=1740.21$   $M, Ed/MN, c, Rd=0.12$

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- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
Sollecitazioni:  $N=44257.90$   $T=129.74$   $M=98.29$   $M_x=53.39$   
 $V, Ed=129.74$   $V_c, Rd, Red=30788.50$   $V, Ed/V_c, Rd, Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=19574.60$   $T=107.99$   $M=134.51$   $M_x=49.33$   
Tensioni:  $\sigma_N=776.71$   $\sigma_M=166.51$   $\tau=30.54$   $\sigma_{max}=943.23$   
Tensioni:  $\sigma_N=776.71$   $\sigma_M=-0.00$   $\tau=39.09$   $\tau_{max}=39.09$   
Tensioni:  $\sigma_N=776.71$   $\sigma_M=166.51$   $\tau=30.54$   $\sigma_{ID, max}=944.71$
  
- Asta n. 2687 (-2430 -2435) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=44128.60$   $T=75.13$   $M=142.54$   $M_x=41.07$   
 $M, Ed=142.54$   $M, c, Rd=3539.85$   
 $N, Ed=44128.60$   $N_c, Rd=85206.20$   $n=N, Ed/N_c, Rd=0.52$   
 $MN, c, Rd=1706.55$   $M, Ed/MN, c, Rd=0.08$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
Sollecitazioni:  $N=44130.50$   $T=123.97$   $M=47.85$   $M_x=41.07$   
 $V, Ed=123.97$   $V_c, Rd, Red=30910.90$   $V, Ed/V_c, Rd, Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=19421.80$   $T=74.79$   $M=85.32$   $M_x=56.34$   
Tensioni:  $\sigma_N=770.65$   $\sigma_M=105.62$   $\tau=34.87$   $\sigma_{max}=876.27$   
Tensioni:  $\sigma_N=770.65$   $\sigma_M=-0.00$   $\tau=40.80$   $\tau_{max}=40.80$   
Tensioni:  $\sigma_N=770.65$   $\sigma_M=105.62$   $\tau=34.87$   $\sigma_{ID, max}=878.35$
  
- Asta n. 2687 (-2435 -2461) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=41654.60$   $T=58.30$   $M=110.39$   $M_x=34.22$   
 $M, Ed=110.39$   $M, c, Rd=2323.44$   
 $N, Ed=41654.60$   $N_c, Rd=69019.00$   $n=N, Ed/N_c, Rd=0.60$   
 $MN, c, Rd=921.19$   $M, Ed/MN, c, Rd=0.12$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 74 SLU  $X_l=0.98$   
Sollecitazioni:  $N=33837.20$   $T=90.66$   $M=34.28$   $M_x=20.93$   
 $V, Ed=90.66$   $V_c, Rd, Red=25110.00$   $V, Ed/V_c, Rd, Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=18607.20$   $T=51.26$   $M=64.47$   $M_x=41.38$   
Tensioni:  $\sigma_N=911.49$   $\sigma_M=122.73$   $\tau=39.39$   $\sigma_{max}=1034.22$   
Tensioni:  $\sigma_N=911.49$   $\sigma_M=-0.00$   $\tau=44.40$   $\tau_{max}=44.40$   
Tensioni:  $\sigma_N=911.49$   $\sigma_M=122.73$   $\tau=39.39$   $\sigma_{ID, max}=1036.46$
  
- Asta n. 2687 (-2461 -2474) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=39419.20$   $T=88.47$   $M=126.01$   $M_x=36.93$   
 $M, Ed=126.01$   $M, c, Rd=2323.44$   
 $N, Ed=39419.20$   $N_c, Rd=69019.00$   $n=N, Ed/N_c, Rd=0.57$   
 $MN, c, Rd=996.44$   $M, Ed/MN, c, Rd=0.13$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
Sollecitazioni:  $N=40320.70$   $T=122.32$   $M=46.91$   $M_x=21.83$   
 $V, Ed=122.32$   $V_c, Rd, Red=25098.80$   $V, Ed/V_c, Rd, Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=17476.50$   $T=54.61$   $M=65.28$   $M_x=30.89$   
Tensioni:  $\sigma_N=856.10$   $\sigma_M=124.26$   $\tau=29.40$   $\sigma_{max}=980.37$   
Tensioni:  $\sigma_N=856.10$   $\sigma_M=-0.00$   $\tau=34.74$   $\tau_{max}=34.74$   
Tensioni:  $\sigma_N=856.10$   $\sigma_M=124.26$   $\tau=29.40$   $\sigma_{ID, max}=981.69$
  
- Asta n. 2687 (-2474 -2481) Tubo circolare  $d=114.3 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=36052.70$   $T=143.90$   $M=141.22$   $M_x=47.62$   
 $M, Ed=141.22$   $M, c, Rd=2323.44$   
 $N, Ed=36052.70$   $N_c, Rd=69019.00$   $n=N, Ed/N_c, Rd=0.52$   
 $MN, c, Rd=1109.77$   $M, Ed/MN, c, Rd=0.13$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
 Sollecitazioni:  $N=36895.70$   $T=177.30$   $M=51.72$   $M_x=26.44$   
 $V,Ed=177.30$   $V_c,Rd,Red=25041.80$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=15886.60$   $T=66.33$   $M=71.39$   $M_x=27.34$   
 Tensioni:  $\sigma_N=778.22$   $\sigma_M=135.91$   $\tau=26.02$   $\sigma_{max}=914.13$   
 Tensioni:  $\sigma_N=778.22$   $\sigma_M=-0.00$   $\tau=32.51$   $\tau_{max}=32.51$   
 Tensioni:  $\sigma_N=778.22$   $\sigma_M=135.91$   $\tau=26.02$   $\sigma_{ID,max}=915.24$
  
- Asta n. 2687 (-2481 -2491) Tubo circolare  $d=101.6 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=31398.80$   $T=135.54$   $M=124.72$   $M_x=67.95$   
 $M,Ed=124.72$   $M,c,Rd=1810.99$   
 $N,Ed=31398.80$   $N_c,Rd=60925.30$   $n=N,Ed/N_c,Rd=0.52$   
 $MN,c,Rd=877.67$   $M,Ed/MN,c,Rd=0.14$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.98$   
 Sollecitazioni:  $N=32174.20$   $T=164.85$   $M=62.76$   $M_x=42.99$   
 $V,Ed=164.85$   $V_c,Rd,Red=21787.80$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=13822.10$   $T=61.87$   $M=65.12$   $M_x=38.85$   
 Tensioni:  $\sigma_N=767.03$   $\sigma_M=160.07$   $\tau=47.75$   $\sigma_{max}=927.10$   
 Tensioni:  $\sigma_N=767.03$   $\sigma_M=-0.00$   $\tau=54.60$   $\tau_{max}=54.60$   
 Tensioni:  $\sigma_N=767.03$   $\sigma_M=160.07$   $\tau=47.75$   $\sigma_{ID,max}=930.78$
  
- Asta n. 2687 (-2491 -2529) Tubo circolare  $d=101.6 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=24654.30$   $T=138.43$   $M=144.44$   $M_x=117.56$   
 $M,Ed=144.44$   $M,c,Rd=1810.99$   
 $N,Ed=24654.30$   $N_c,Rd=60925.30$   $n=N,Ed/N_c,Rd=0.40$   
 $MN,c,Rd=1078.15$   $M,Ed/MN,c,Rd=0.13$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=0.98$   
 Sollecitazioni:  $N=18813.20$   $T=164.24$   $M=30.73$   $M_x=169.68$   
 $V,Ed=164.24$   $V_c,Rd,Red=20001.70$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=10987.20$   $T=65.83$   $M=70.85$   $M_x=75.08$   
 Tensioni:  $\sigma_N=609.72$   $\sigma_M=174.15$   $\tau=92.27$   $\sigma_{max}=783.87$   
 Tensioni:  $\sigma_N=609.72$   $\sigma_M=-0.00$   $\tau=99.55$   $\tau_{max}=99.55$   
 Tensioni:  $\sigma_N=609.72$   $\sigma_M=174.15$   $\tau=92.27$   $\sigma_{ID,max}=800.00$
  
- Asta n. 2687 (-2529 2312) Tubo circolare  $d=101.6 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.97$  - Classe 1  
 Sollecitazioni:  $N=16862.60$   $T=554.11$   $M=310.58$   $M_x=199.38$   
 $M,Ed=310.58$   $M,c,Rd=1810.99$   
 $N,Ed=16862.60$   $N_c,Rd=60925.30$   $n=N,Ed/N_c,Rd=0.28$   
 $MN,c,Rd=1309.75$   $M,Ed/MN,c,Rd=0.24$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=0.97$   
 Sollecitazioni:  $N=13034.30$   $T=574.36$   $M=337.12$   $M_x=251.41$   
 $V,Ed=574.36$   $V_c,Rd,Red=18849.40$   $V,Ed/V_c,Rd,Red=0.03$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.97$  - Classe 3  
 Sollecitazioni:  $N=7793.71$   $T=238.30$   $M=137.90$   $M_x=151.17$   
 Tensioni:  $\sigma_N=432.50$   $\sigma_M=338.95$   $\tau=185.79$   $\sigma_{max}=771.45$   
 Tensioni:  $\sigma_N=432.50$   $\sigma_M=-0.00$   $\tau=212.17$   $\tau_{max}=212.17$   
 Tensioni:  $\sigma_N=432.50$   $\sigma_M=338.95$   $\tau=185.79$   $\sigma_{ID,max}=835.88$
  
- Asta n. 2702 (-2418 -2423) Tubo circolare  $d=139.7 \times 6$  mm - S355 Crit. 3  
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- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.98$  - Classe 1  
 Sollecitazioni:  $N=43311.90$   $T=271.86$   $M=196.04$   $M_x=-48.17$   
 $M,Ed=196.04$   $M,c,Rd=3539.85$   
 $N,Ed=43311.90$   $N_c,Rd=85206.20$   $n=N,Ed/N_c,Rd=0.51$

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MN,c,Rd=1740.48 M,Ed/MN,c,Rd=0.11

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.98  
Sollecitazioni: N=43311.90 T=271.86 M=196.04 M<sub>x</sub>=-48.17  
V,Ed=271.86 Vc,Rd,Red=30840.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=18130.30 T=148.24 M=135.63 M<sub>x</sub>=-25.77  
Tensioni:  $\sigma_N=719.40$   $\sigma_M=167.90$   $\tau=15.95$   $\sigma_{max}=887.30$   
Tensioni:  $\sigma_N=719.40$   $\sigma_M=-0.00$   $\tau=27.70$   $\tau_{max}=27.70$   
Tensioni:  $\sigma_N=719.40$   $\sigma_M=167.90$   $\tau=15.95$   $\sigma_{ID,max}=887.73$

Asta n. 2702 (-2423 -2431) Tubo circolare d=139.7x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=43067.30 T=120.40 M=204.53 M<sub>x</sub>=-48.76  
M,Ed=204.53 M,c,Rd=3539.85  
N,Ed=43067.30 Nc,Rd=85206.20 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=1750.64 M,Ed/MN,c,Rd=0.12
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=43067.30 T=120.40 M=204.53 M<sub>x</sub>=-48.76  
V,Ed=120.40 Vc,Rd,Red=30834.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=18330.10 T=100.65 M=113.82 M<sub>x</sub>=-42.95  
Tensioni:  $\sigma_N=727.33$   $\sigma_M=140.90$   $\tau=26.58$   $\sigma_{max}=868.23$   
Tensioni:  $\sigma_N=727.33$   $\sigma_M=-0.00$   $\tau=34.56$   $\tau_{max}=34.56$   
Tensioni:  $\sigma_N=727.33$   $\sigma_M=140.90$   $\tau=26.58$   $\sigma_{ID,max}=869.45$

Asta n. 2702 (-2431 -2436) Tubo circolare d=139.7x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=43858.70 T=85.95 M=139.46 M<sub>x</sub>=-33.82  
M,Ed=139.46 M,c,Rd=3539.85  
N,Ed=43858.70 Nc,Rd=85206.20 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=1717.76 M,Ed/MN,c,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.98  
Sollecitazioni: N=43859.80 T=105.02 M=49.04 M<sub>x</sub>=-33.82  
V,Ed=105.02 Vc,Rd,Red=30982.80 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=18204.80 T=59.43 M=70.64 M<sub>x</sub>=-48.07  
Tensioni:  $\sigma_N=722.36$   $\sigma_M=87.45$   $\tau=29.75$   $\sigma_{max}=809.80$   
Tensioni:  $\sigma_N=722.36$   $\sigma_M=-0.00$   $\tau=34.46$   $\tau_{max}=34.46$   
Tensioni:  $\sigma_N=722.36$   $\sigma_M=87.45$   $\tau=29.75$   $\sigma_{ID,max}=811.44$

Asta n. 2702 (-2436 -2462) Tubo circolare d=114.3x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=41377.80 T=72.00 M=109.53 M<sub>x</sub>=-24.23  
M,Ed=109.53 M,c,Rd=2323.44  
N,Ed=41377.80 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.60  
MN,c,Rd=930.51 M,Ed/MN,c,Rd=0.12
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.98  
Sollecitazioni: N=42308.30 T=78.73 M=50.11 M<sub>x</sub>=-17.33  
V,Ed=78.73 Vc,Rd,Red=25154.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=17490.00 T=35.83 M=63.47 M<sub>x</sub>=-33.40  
Tensioni:  $\sigma_N=856.76$   $\sigma_M=120.82$   $\tau=31.79$   $\sigma_{max}=977.58$   
Tensioni:  $\sigma_N=856.76$   $\sigma_M=-0.00$   $\tau=35.29$   $\tau_{max}=35.29$   
Tensioni:  $\sigma_N=856.76$   $\sigma_M=120.82$   $\tau=31.79$   $\sigma_{ID,max}=979.13$

Asta n. 2702 (-2462 -2475) Tubo circolare d=114.3x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=39131.00 T=100.39 M=124.57 M<sub>x</sub>=-24.69  
M,Ed=124.57 M,c,Rd=2323.44

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N,Ed=39131.00 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.57  
MN,c,Rd=1006.14 M,Ed/MN,c,Rd=0.12

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.98  
Sollecitazioni: N=40026.00 T=108.07 M=50.62 M<sub>x</sub>=-11.72  
V,Ed=108.07 Vc,Rd,Red=25223.90 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=16495.80 T=44.97 M=62.70 M<sub>x</sub>=-24.79  
Tensioni:  $\sigma_N=808.06$   $\sigma_M=119.36$   $\tau=23.59$   $\sigma_{max}=927.42$   
Tensioni:  $\sigma_N=808.06$   $\sigma_M=-0.00$   $\tau=27.99$   $\tau_{max}=27.99$   
Tensioni:  $\sigma_N=808.06$   $\sigma_M=119.36$   $\tau=23.59$   $\sigma_{ID,max}=928.32$

Asta n. 2702 (-2475 -2482) Tubo circolare d=114.3x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=35768.20 T=155.44 M=139.89 M<sub>x</sub>=-32.18  
M,Ed=139.89 M,c,Rd=2323.44  
N,Ed=35768.20 Nc,Rd=69019.00 n=N,Ed/Nc,Rd=0.52  
MN,c,Rd=1119.35 M,Ed/MN,c,Rd=0.12
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.98  
Sollecitazioni: N=36600.70 T=160.53 M=50.61 M<sub>x</sub>=-14.46  
V,Ed=160.53 Vc,Rd,Red=25190.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=15139.30 T=63.40 M=64.24 M<sub>x</sub>=-22.16  
Tensioni:  $\sigma_N=741.61$   $\sigma_M=122.29$   $\tau=21.09$   $\sigma_{max}=863.90$   
Tensioni:  $\sigma_N=741.61$   $\sigma_M=-0.00$   $\tau=27.29$   $\tau_{max}=27.29$   
Tensioni:  $\sigma_N=741.61$   $\sigma_M=122.29$   $\tau=21.09$   $\sigma_{ID,max}=864.67$

Asta n. 2702 (-2482 -2492) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=31135.50 T=144.86 M=120.42 M<sub>x</sub>=-50.95  
M,Ed=120.42 M,c,Rd=1810.99  
N,Ed=31135.50 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.51  
MN,c,Rd=885.50 M,Ed/MN,c,Rd=0.14
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.98  
Sollecitazioni: N=31892.20 T=147.24 M=63.11 M<sub>x</sub>=-31.91  
V,Ed=147.24 Vc,Rd,Red=21944.10 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=13204.80 T=61.59 M=54.64 M<sub>x</sub>=-28.78  
Tensioni:  $\sigma_N=732.78$   $\sigma_M=134.29$   $\tau=35.37$   $\sigma_{max}=867.07$   
Tensioni:  $\sigma_N=732.78$   $\sigma_M=-0.00$   $\tau=42.19$   $\tau_{max}=42.19$   
Tensioni:  $\sigma_N=732.78$   $\sigma_M=134.29$   $\tau=35.37$   $\sigma_{ID,max}=869.23$

Asta n. 2702 (-2492 -2530) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=24438.30 T=151.53 M=140.81 M<sub>x</sub>=-91.20  
M,Ed=140.81 M,c,Rd=1810.99  
N,Ed=24438.30 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.40  
MN,c,Rd=1084.57 M,Ed/MN,c,Rd=0.13
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 25 SLU Xl=0.98  
Sollecitazioni: N=24198.00 T=152.54 M=52.18 M<sub>x</sub>=-87.25  
V,Ed=152.54 Vc,Rd,Red=21163.80 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=10474.20 T=64.78 M=60.64 M<sub>x</sub>=-45.59  
Tensioni:  $\sigma_N=581.25$   $\sigma_M=149.06$   $\tau=56.03$   $\sigma_{max}=730.30$   
Tensioni:  $\sigma_N=581.25$   $\sigma_M=-0.00$   $\tau=63.20$   $\tau_{max}=63.20$   
Tensioni:  $\sigma_N=581.25$   $\sigma_M=149.06$   $\tau=56.03$   $\sigma_{ID,max}=736.72$

Asta n. 2702 (-2530 2313) Tubo circolare d=101.6x6 mm - S355 Crit. 3

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.97 - Classe 1  
Sollecitazioni: N=16680.80 T=499.53 M=284.03 M<sub>x</sub>=-151.46

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M,Ed=284.03 M,c,Rd=1810.99  
N,Ed=16680.80 Nc,Rd=60925.30 n=N,Ed/Nc,Rd=0.27  
MN,c,Rd=1315.16 M,Ed/MN,c,Rd=0.22

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.97  
Sollecitazioni: N=16680.80 T=499.53 M=284.03 M<sub>x</sub>=-151.46  
V,Ed=499.53 Vc,Rd,Red=20258.50 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.97 - Classe 3  
Sollecitazioni: N=7390.62 T=208.75 M=119.32 M<sub>x</sub>=-77.06  
Tensioni:  $\sigma_N=410.13$   $\sigma_M=293.27$   $\tau=94.70$   $\sigma_{max}=703.40$   
Tensioni:  $\sigma_N=410.13$   $\sigma_M=-0.00$   $\tau=117.81$   $\tau_{max}=117.81$   
Tensioni:  $\sigma_N=410.13$   $\sigma_M=293.27$   $\tau=94.70$   $\sigma_{ID,max}=722.28$
- Asta n. 3063 (-2474 -2558) Tubo 60x80x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3378)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3032)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2418.40 T<sub>z</sub>=150.94 M<sub>y</sub>=-14.51 T<sub>y</sub>=-222.94 M<sub>z</sub>=104.19 M<sub>x</sub>=-14.60  
Tensioni:  $\sigma_N=186.03$   $\sigma_M=491.05$   $\tau=35.39$   $\sigma_{max}=677.08$   
Tensioni:  $\sigma_N=186.03$   $\sigma_M=44.91$   $\tau=79.73$   $\tau_{max}=79.73$   
Tensioni:  $\sigma_N=186.03$   $\sigma_M=491.05$   $\tau=35.39$   $\sigma_{ID,max}=679.85$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.02  
Sollecitazioni: N=1026.69 T<sub>z</sub>=149.43 M<sub>y</sub>=-82.75 M<sub>z</sub>=37.09 M<sub>x</sub>=5.70  
V,Ed=-82.75 Vc,Rd,Red=10798.70 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=149.43 Vc,Rd,Red=14398.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1208.39 T<sub>z</sub>=94.35 M<sub>y</sub>=-20.73 T<sub>y</sub>=-104.83 M<sub>z</sub>=49.15 M<sub>x</sub>=-12.02  
Tensioni:  $\sigma_N=92.95$   $\sigma_M=280.73$   $\tau=29.13$   $\sigma_{max}=373.68$   
Tensioni:  $\sigma_N=92.95$   $\sigma_M=64.15$   $\tau=49.99$   $\tau_{max}=49.99$   
Tensioni:  $\sigma_N=92.95$   $\sigma_M=280.73$   $\tau=29.13$   $\sigma_{ID,max}=377.07$

Asta n. 3063 (-2558 -3028) Tubo 60x100x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3448)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3142)  $f_{z,L}=0.00$  (L/25289)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.25 - Classe 3  
Sollecitazioni: N=2508.75 T<sub>z</sub>=228.66 M<sub>y</sub>=-122.78 T<sub>y</sub>=-223.78 M<sub>z</sub>=-7.22 M<sub>x</sub>=-8.03  
Tensioni:  $\sigma_N=167.25$   $\sigma_M=337.93$   $\tau=15.36$   $\sigma_{max}=505.18$   
Tensioni:  $\sigma_N=167.25$   $\sigma_M=281.54$   $\tau=59.21$   $\tau_{max}=59.21$   
Tensioni:  $\sigma_N=167.25$   $\sigma_M=333.75$   $\tau=51.04$   $\sigma_{ID,max}=508.74$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 29 SLU Xl=0.23  
Sollecitazioni: N=1121.25 T<sub>z</sub>=79.15 M<sub>y</sub>=-43.00 T<sub>y</sub>=-99.06 M<sub>z</sub>=-4.23  
V,Ed=-99.06 Vc,Rd,Red=10934.70 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=79.15 Vc,Rd,Red=18224.60 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1210.92 T<sub>z</sub>=94.32 M<sub>y</sub>=-31.50 T<sub>y</sub>=-104.74 M<sub>z</sub>=23.23 M<sub>x</sub>=-12.02  
Tensioni:  $\sigma_N=80.73$   $\sigma_M=161.04$   $\tau=23.00$   $\sigma_{max}=241.77$   
Tensioni:  $\sigma_N=80.73$   $\sigma_M=72.22$   $\tau=43.51$   $\tau_{max}=43.51$   
Tensioni:  $\sigma_N=80.73$   $\sigma_M=161.04$   $\tau=23.00$   $\sigma_{ID,max}=245.03$

Asta n. 3063 (-3028 2810) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.24 - Classe 3

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Sollecitazioni: N=2512.95 T<sub>z</sub>=226.46 M<sub>y</sub>=-176.93 T<sub>y</sub>=-224.94 M<sub>z</sub>=-60.81 M<sub>x</sub>=-7.98

Tensioni:  $\sigma_N=132.26$   $\sigma_M=405.74$   $\tau=9.25$   $\sigma_{max}=538.00$

Tensioni:  $\sigma_N=132.26$   $\sigma_M=259.09$   $\tau=41.87$   $\tau_{max}=41.87$

Tensioni:  $\sigma_N=132.26$   $\sigma_M=405.74$   $\tau=9.25$   $\sigma_{ID,max}=538.24$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.24 - Classe 3  
Sollecitazioni: N=1135.23 T<sub>z</sub>=88.55 M<sub>y</sub>=-67.56 T<sub>y</sub>=-100.34 M<sub>z</sub>=-27.17 M<sub>x</sub>=-10.10  
Tensioni:  $\sigma_N=59.75$   $\sigma_M=162.93$   $\tau=11.71$   $\sigma_{max}=222.68$   
Tensioni:  $\sigma_N=59.75$   $\sigma_M=98.93$   $\tau=26.26$   $\tau_{max}=26.26$   
Tensioni:  $\sigma_N=59.75$   $\sigma_M=162.93$   $\tau=11.71$   $\sigma_{ID,max}=223.60$

Asta n. 3063 (2810 -8282) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1295.50 M<sub>y</sub>,Ed=-157.05 M<sub>z</sub>,Ed=-64.06  
Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=23.69  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.33$  Ncr,y=13865200.00  $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.35$  Ncr,z=7294070.00  $\lambda'_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.02+0.06+0.04=0.11  
Verifica ZZ: 0.02+0.05+0.04=0.10

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2389.67 T<sub>z</sub>=-471.08 M<sub>y</sub>=-158.99 T<sub>y</sub>=-146.28 M<sub>z</sub>=-70.34 M<sub>x</sub>=-7.05  
Tensioni:  $\sigma_N=125.77$   $\sigma_M=396.38$   $\tau=8.18$   $\sigma_{max}=522.15$   
Tensioni:  $\sigma_N=125.77$   $\sigma_M=-124.59$   $\tau=56.01$   $\tau_{max}=56.01$   
Tensioni:  $\sigma_N=125.77$   $\sigma_M=396.38$   $\tau=8.18$   $\sigma_{ID,max}=522.35$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 95 SLU Xl=0.09  
Sollecitazioni: N=903.37 T<sub>z</sub>=-66.06 T<sub>y</sub>=-57.28 M<sub>z</sub>=-33.86 M<sub>x</sub>=-12.18  
V,Ed=-57.28 Vc,Rd,Red=14728.30 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-66.06 Vc,Rd,Red=22092.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1036.82 T<sub>z</sub>=-195.57 M<sub>y</sub>=-60.87 T<sub>y</sub>=-64.27 M<sub>z</sub>=-31.75 M<sub>x</sub>=-9.22  
Tensioni:  $\sigma_N=54.57$   $\sigma_M=161.53$   $\tau=10.69$   $\sigma_{max}=216.10$   
Tensioni:  $\sigma_N=54.57$   $\sigma_M=-56.25$   $\tau=30.55$   $\tau_{max}=30.55$   
Tensioni:  $\sigma_N=54.57$   $\sigma_M=161.53$   $\tau=10.69$   $\sigma_{ID,max}=216.89$

Asta n. 3063 (-8282 -9826) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1875.45 M<sub>y</sub>,Ed=38.66 M<sub>z</sub>,Ed=-81.51  
Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=10.49  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$  Ncr,y=70752000.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$  Ncr,z=37220600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.01+0.05=0.09  
Verifica ZZ: 0.03+0.01+0.05=0.09

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2833.50 T<sub>z</sub>=-295.61 M<sub>y</sub>=-59.32 T<sub>y</sub>=-164.14 M<sub>z</sub>=-115.90 M<sub>x</sub>=-6.99  
Tensioni:  $\sigma_N=149.13$   $\sigma_M=329.41$   $\tau=8.11$   $\sigma_{max}=478.54$   
Tensioni:  $\sigma_N=149.13$   $\sigma_M=-205.31$   $\tau=38.15$   $\tau_{max}=38.15$   
Tensioni:  $\sigma_N=149.13$   $\sigma_M=329.41$   $\tau=8.11$   $\sigma_{ID,max}=478.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU Xl=0.06  
Sollecitazioni: N=1971.30 T<sub>z</sub>=-114.69 T<sub>y</sub>=-104.70 M<sub>z</sub>=-84.02 M<sub>x</sub>=-25.56  
V,Ed=-104.70 Vc,Rd,Red=14610.40 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-114.69 Vc,Rd,Red=21915.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=1222.29 T<sub>z</sub>=-169.97 M<sub>y</sub>=-18.18 T<sub>y</sub>=-71.75 M<sub>z</sub>=-59.25 M<sub>x</sub>=-9.08



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Tensioni:  $\sigma_N=64.33$   $\sigma_M=148.99$   $\tau=10.53$   $\sigma_{max}=213.32$   
Tensioni:  $\sigma_N=64.33$   $\sigma_M=-104.95$   $\tau=27.79$   $\tau_{max}=27.79$   
Tensioni:  $\sigma_N=64.33$   $\sigma_M=148.99$   $\tau=10.53$   $\sigma_{ID,max}=214.10$

Asta n. 3063 (-9826 -13294) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-2310.65 My,Ed=34.18 Mz,Ed=-94.37  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.87

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.22$  Ncr,y=79851100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.06$  Ncr,z=42007300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.04+0.01+0.05=0.10

Verifica ZZ: 0.04+0.01+0.05=0.10

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=2594.84 Tz=-127.53 My=-19.79 Ty=-166.44 Mz=-154.29 Mx=-7.10

Tensioni:  $\sigma_N=136.57$   $\sigma_M=343.97$   $\tau=8.23$   $\sigma_{max}=480.54$

Tensioni:  $\sigma_N=136.57$   $\sigma_M=28.98$   $\tau=32.36$   $\tau_{max}=32.36$

Tensioni:  $\sigma_N=136.57$   $\sigma_M=343.97$   $\tau=8.23$   $\sigma_{ID,max}=480.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.06

Sollecitazioni: N=2290.38 Tz=-78.19 Ty=-130.43 Mz=-120.40 Mx=-28.76

V,Ed=-130.43 Vc,Rd,Red=14582.20 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-78.19 Vc,Rd,Red=21873.30 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3

Sollecitazioni: N=1151.49 Tz=-132.37 My=-23.87 Ty=-73.16 Mz=-68.50 Mx=-9.07

Tensioni:  $\sigma_N=60.60$   $\sigma_M=176.79$   $\tau=10.51$   $\sigma_{max}=237.40$

Tensioni:  $\sigma_N=60.60$   $\sigma_M=-121.33$   $\tau=23.96$   $\tau_{max}=23.96$

Tensioni:  $\sigma_N=60.60$   $\sigma_M=176.79$   $\tau=10.51$   $\sigma_{ID,max}=238.09$

Asta n. 3064 (-2475 -2559) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3411)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3077)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=2390.61 Tz=169.40 My=-11.56 Ty=217.58 Mz=-101.66 Mx=9.55

Tensioni:  $\sigma_N=183.89$   $\sigma_M=469.93$   $\tau=23.15$   $\sigma_{max}=653.82$

Tensioni:  $\sigma_N=183.89$   $\sigma_M=35.77$   $\tau=66.45$   $\tau_{max}=66.45$

Tensioni:  $\sigma_N=183.89$   $\sigma_M=469.93$   $\tau=23.15$   $\sigma_{ID,max}=655.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.00

Sollecitazioni: N=1972.03 Tz=236.75 Ty=170.05 Mz=-79.78 Mx=-1.50

V,Ed=170.05 Vc,Rd,Red=10855.40 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=236.75 Vc,Rd,Red=14473.90 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=1071.99 Tz=90.29 My=-15.17 Ty=95.31 Mz=-44.69 Mx=9.53

Tensioni:  $\sigma_N=82.46$   $\sigma_M=242.28$   $\tau=23.09$   $\sigma_{max}=324.74$

Tensioni:  $\sigma_N=82.46$   $\sigma_M=46.96$   $\tau=42.06$   $\tau_{max}=42.06$

Tensioni:  $\sigma_N=82.46$   $\sigma_M=242.28$   $\tau=23.09$   $\sigma_{ID,max}=327.20$

Asta n. 3064 (-2559 -3029) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3426)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3096)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.25$  - Classe 3  
 Sollecitazioni:  $N=2483.26$   $T_z=248.36$   $M_y=-130.90$   $T_y=219.34$   $M_z=7.08$   $M_x=3.86$   
 Tensioni:  $\sigma_N=165.55$   $\sigma_M=358.11$   $\tau=7.40$   $\sigma_{max}=523.66$   
 Tensioni:  $\sigma_N=165.55$   $\sigma_M=300.15$   $\tau=50.40$   $\tau_{max}=50.40$   
 Tensioni:  $\sigma_N=165.55$   $\sigma_M=354.01$   $\tau=42.36$   $\sigma_{ID,max}=524.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.23$   
 Sollecitazioni:  $N=1864.51$   $T_z=190.40$   $M_y=-85.56$   $T_y=134.88$   $M_x=-18.17$   
 $V,Ed=134.88$   $Vc,Rd,Red=10784.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=190.40$   $Vc,Rd,Red=17974.50$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1083.24$   $T_z=90.63$   $M_y=-28.14$   $T_y=94.05$   $M_z=-20.73$   $M_x=8.75$   
 Tensioni:  $\sigma_N=72.22$   $\sigma_M=143.78$   $\tau=16.74$   $\sigma_{max}=216.00$   
 Tensioni:  $\sigma_N=72.22$   $\sigma_M=64.52$   $\tau=35.16$   $\tau_{max}=35.16$   
 Tensioni:  $\sigma_N=72.22$   $\sigma_M=143.78$   $\tau=16.74$   $\sigma_{ID,max}=217.94$

Asta n. 3064 (-3029 2811) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.24$  - Classe 3  
 Sollecitazioni:  $N=2487.46$   $T_z=246.19$   $M_y=-189.74$   $T_y=220.50$   $M_z=59.61$   $M_x=3.81$   
 Tensioni:  $\sigma_N=130.92$   $\sigma_M=423.79$   $\tau=4.42$   $\sigma_{max}=554.71$   
 Tensioni:  $\sigma_N=130.92$   $\sigma_M=277.85$   $\tau=36.41$   $\tau_{max}=36.41$   
 Tensioni:  $\sigma_N=130.92$   $\sigma_M=423.79$   $\tau=4.42$   $\sigma_{ID,max}=554.76$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.24$  - Classe 3  
 Sollecitazioni:  $N=1089.12$   $T_z=88.28$   $M_y=-67.13$   $T_y=94.49$   $M_z=25.60$   $M_x=8.74$   
 Tensioni:  $\sigma_N=57.32$   $\sigma_M=159.07$   $\tau=10.13$   $\sigma_{max}=216.39$   
 Tensioni:  $\sigma_N=57.32$   $\sigma_M=98.30$   $\tau=23.83$   $\tau_{max}=23.83$   
 Tensioni:  $\sigma_N=57.32$   $\sigma_M=159.07$   $\tau=10.13$   $\sigma_{ID,max}=217.10$

Asta n. 3064 (2811 -8283) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1287.02$   $M_y,Ed=-155.14$   $M_z,Ed=64.20$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.69$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.33$   $N_{cr,y}=13865200.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.35$   $N_{cr,z}=7294100.00$   $\lambda^*_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.06+0.04=0.11$   
 Verifica ZZ:  $0.02+0.05+0.04=0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=2343.18$   $T_z=-496.54$   $M_y=-168.07$   $T_y=145.40$   $M_z=68.45$   $M_x=3.28$   
 Tensioni:  $\sigma_N=123.33$   $\sigma_M=407.07$   $\tau=3.80$   $\sigma_{max}=530.39$   
 Tensioni:  $\sigma_N=123.33$   $\sigma_M=-121.25$   $\tau=54.22$   $\tau_{max}=54.22$   
 Tensioni:  $\sigma_N=123.33$   $\sigma_M=407.07$   $\tau=3.80$   $\sigma_{ID,max}=530.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.19$   
 Sollecitazioni:  $N=-1283.52$   $T_z=-798.28$   $T_y=90.68$   $M_z=60.30$   $M_x=4.94$   
 $V,Ed=90.68$   $Vc,Rd,Red=14792.10$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-798.28$   $Vc,Rd,Red=22188.10$   $V,Ed/Vc,Rd,Red=0.04$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=988.48$   $T_z=-191.81$   $M_y=-59.75$   $T_y=61.69$   $M_z=29.63$   $M_x=8.02$   
 Tensioni:  $\sigma_N=52.02$   $\sigma_M=155.44$   $\tau=9.29$   $\sigma_{max}=207.46$   
 Tensioni:  $\sigma_N=52.02$   $\sigma_M=-52.48$   $\tau=28.77$   $\tau_{max}=28.77$   
 Tensioni:  $\sigma_N=52.02$   $\sigma_M=155.44$   $\tau=9.29$   $\sigma_{ID,max}=208.09$

Asta n. 3064 (-8283 -13302) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2180.42$   $M_y,Ed=4.38$   $M_z,Ed=92.71$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=20.36$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=4.58$  Ncr,y=18773800.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=6.31$  Ncr,z=9876330.00  $\lambda^*_z=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.03+0.00+0.05=0.09

Verifica ZZ: 0.03+0.00+0.05=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2599.96 T<sub>z</sub>=-227.46 M<sub>y</sub>=-65.00 T<sub>y</sub>=171.99 M<sub>z</sub>=114.33 M<sub>x</sub>=1.82  
Tensioni:  $\sigma_N=136.84$   $\sigma_M=335.30$   $\tau=2.11$   $\sigma_{max}=472.14$   
Tensioni:  $\sigma_N=136.84$   $\sigma_M=95.19$   $\tau=27.08$   $\tau_{max}=27.08$   
Tensioni:  $\sigma_N=136.84$   $\sigma_M=335.30$   $\tau=2.11$   $\sigma_{ID,max}=472.15$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.19  
Sollecitazioni: N=2203.22 T<sub>z</sub>=-179.30 T<sub>y</sub>=125.79 M<sub>z</sub>=110.36 M<sub>x</sub>=6.40  
V,Ed=125.79 Vc,Rd,Red=14779.20 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-179.30 Vc,Rd,Red=22168.80 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.20 - Classe 3  
Sollecitazioni: N=1148.39 T<sub>z</sub>=-130.80 M<sub>y</sub>=-18.28 T<sub>y</sub>=71.53 M<sub>z</sub>=63.35 M<sub>x</sub>=7.08  
Tensioni:  $\sigma_N=60.44$   $\sigma_M=157.45$   $\tau=8.20$   $\sigma_{max}=217.89$   
Tensioni:  $\sigma_N=60.44$   $\sigma_M=-112.21$   $\tau=21.49$   $\tau_{max}=21.49$   
Tensioni:  $\sigma_N=60.44$   $\sigma_M=157.45$   $\tau=8.20$   $\sigma_{ID,max}=218.35$

Asta n. 3231 (-2422 -2512) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-371.69 M<sub>y</sub>,Ed=-30.46 M<sub>z</sub>,Ed=12.04  
Resistenze: Nc,Rd=43952.40 M<sub>y</sub>,c,Rd=955.82 M<sub>z</sub>,c,Rd=801.10 L=32.51  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=11.02$  Ncr,y=2217730.00  $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.90$  Ncr,z=1394050.00  $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.03+0.01=0.05  
Verifica ZZ: 0.01+0.02+0.01=0.05
- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.01 (L/3588)
- Verifica Freccia massima carichi totali - CC 46  
f<sub>z,g</sub>=0.01 (L/3478)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-687.84 T<sub>z</sub>=-103.72 M<sub>y</sub>=-24.68 T<sub>y</sub>=22.63 M<sub>z</sub>=-14.26 M<sub>x</sub>=10.21  
Tensioni:  $\sigma_N=-52.91$   $\sigma_M=-147.48$   $\tau=24.76$   $\sigma_{max}=-200.39$   
Tensioni:  $\sigma_N=-52.91$   $\sigma_M=50.15$   $\tau=40.70$   $\tau_{max}=40.70$   
Tensioni:  $\sigma_N=-52.91$   $\sigma_M=-147.48$   $\tau=24.76$   $\sigma_{ID,max}=204.93$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.33  
Sollecitazioni: N=222.42 T<sub>z</sub>=-135.62 M<sub>y</sub>=32.40 T<sub>y</sub>=-13.31 M<sub>z</sub>=-4.32  
V,Ed=-13.31 Vc,Rd,Red=10817.40 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-135.62 Vc,Rd,Red=14423.10 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=479.16 T<sub>z</sub>=-70.16 M<sub>y</sub>=-30.46 T<sub>y</sub>=-23.28 M<sub>z</sub>=12.04 M<sub>x</sub>=-10.18  
Tensioni:  $\sigma_N=36.86$   $\sigma_M=158.56$   $\tau=24.68$   $\sigma_{max}=195.42$   
Tensioni:  $\sigma_N=36.86$   $\sigma_M=42.36$   $\tau=35.47$   $\tau_{max}=35.47$   
Tensioni:  $\sigma_N=36.86$   $\sigma_M=158.56$   $\tau=24.68$   $\sigma_{ID,max}=200.04$

Asta n. 3231 (-2512 -3096) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
Sollecitazioni: N,Ed=-683.96 M<sub>y</sub>,Ed=46.18 M<sub>z</sub>,Ed=-6.90  
Resistenze: Nc,Rd=50714.30 M<sub>y</sub>,c,Rd=1327.02 M<sub>z</sub>,c,Rd=972.02 L=34.49  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.54$  Ncr,y=3418940.00  $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=14.38$  Ncr, z=1502590.00  $\lambda^*_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.03+0.01=0.05  
Verifica ZZ: 0.01+0.02+0.01=0.04

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3616)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3519)
- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.34 - Classe 3  
Sollecitazioni: N=317.01  $T_z=-137.33$   $M_y=80.53$   $T_y=-7.90$   $M_z=-2.80$   $M_x=-3.37$   
Tensioni:  $\sigma_N=21.13$   $\sigma_M=214.92$   $\tau=6.45$   $\sigma_{max}=236.05$   
Tensioni:  $\sigma_N=21.13$   $\sigma_M=-8.11$   $\tau=23.51$   $\tau_{max}=23.51$   
Tensioni:  $\sigma_N=21.13$   $\sigma_M=214.92$   $\tau=6.45$   $\sigma_{TD,max}=236.31$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=223.89  $T_z=-136.35$   $M_y=46.47$   $T_y=-13.31$   $M_x=-4.32$   
V,Ed=-13.31 Vc,Rd,Red=10933.80 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-136.35 Vc,Rd,Red=18222.90 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.34 - Classe 3  
Sollecitazioni: N=484.87  $T_z=-72.15$   $M_y=43.37$   $T_y=-23.08$   $M_z=-3.51$   $M_x=-10.18$   
Tensioni:  $\sigma_N=32.32$   $\sigma_M=122.71$   $\tau=19.48$   $\sigma_{max}=155.04$   
Tensioni:  $\sigma_N=32.32$   $\sigma_M=-10.19$   $\tau=28.45$   $\tau_{max}=28.45$   
Tensioni:  $\sigma_N=32.32$   $\sigma_M=122.71$   $\tau=19.48$   $\sigma_{TD,max}=158.67$

Asta n. 3231 (-3096 3001) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
Sollecitazioni: N,Ed=-679.21  $M_y,Ed=78.27$   $M_z,Ed=7.87$   
Resistenze: Nc,Rd=64238.10  $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$  L=29.38  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.61$  Ncr, y=9019810.00  $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.11$  Ncr, z=4745060.00  $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.03+0.00=0.04  
Verifica ZZ: 0.01+0.02+0.00=0.04
- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.29 - Classe 3  
Sollecitazioni: N=322.31  $T_z=-139.96$   $M_y=121.27$   $T_y=-7.92$   $M_z=-5.00$   $M_x=-3.43$   
Tensioni:  $\sigma_N=16.96$   $\sigma_M=203.85$   $\tau=3.98$   $\sigma_{max}=220.81$   
Tensioni:  $\sigma_N=16.96$   $\sigma_M=-8.85$   $\tau=18.19$   $\tau_{max}=18.19$   
Tensioni:  $\sigma_N=16.96$   $\sigma_M=203.85$   $\tau=3.98$   $\sigma_{TD,max}=220.92$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.29  
Sollecitazioni: N=475.67  $T_z=-34.86$   $M_y=36.01$   $T_y=2.57$   $M_x=1.68$   
V,Ed=2.57 Vc,Rd,Red=14820.70 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-34.86 Vc,Rd,Red=22231.10 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.29 - Classe 3  
Sollecitazioni: N=499.00  $T_z=-77.15$   $M_y=61.61$   $T_y=-18.56$   $M_z=-8.62$   $M_x=-7.73$   
Tensioni:  $\sigma_N=26.26$   $\sigma_M=115.87$   $\tau=8.96$   $\sigma_{max}=142.13$   
Tensioni:  $\sigma_N=26.26$   $\sigma_M=-15.26$   $\tau=16.79$   $\tau_{max}=16.79$   
Tensioni:  $\sigma_N=26.26$   $\sigma_M=115.87$   $\tau=8.96$   $\sigma_{TD,max}=142.98$

Asta n. 3231 (3001 -9176) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2760.64  $M_y,Ed=73.64$   $M_z,Ed=-0.31$   
Resistenze: Nc,Rd=64238.10  $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$  L=22.90  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.15$  Ncr, y=14839700.00  $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.10$  Ncr, z=7806740.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.04+0.03+0.00=0.07$   
 Verifica ZZ:  $0.04+0.02+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.23$  - Classe 3  
 Sollecitazioni:  $N=-1437.06$   $T_z=-173.21$   $M_y=70.13$   $T_y=-6.22$   $M_z=-6.17$   $M_x=-1.47$   
 Tensioni:  $\sigma_N=-75.63$   $\sigma_M=-124.52$   $\tau=1.71$   $\sigma_{max}=-200.15$   
 Tensioni:  $\sigma_N=-75.63$   $\sigma_M=-10.93$   $\tau=19.29$   $\tau_{max}=19.29$   
 Tensioni:  $\sigma_N=-75.63$   $\sigma_M=-124.52$   $\tau=1.71$   $\sigma_{ID,max}=200.17$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU  $Xl=0.23$   
 Sollecitazioni:  $N=-2756.50$   $T_z=-355.83$   $M_y=73.64$   $M_x=1.20$   
 $V,Ed=-355.83$   $Vc,Rd,Red=22237.60$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=494.81$   $T_z=118.05$   $M_y=51.23$   $T_y=-11.51$   $M_z=-9.61$   $M_x=-7.25$   
 Tensioni:  $\sigma_N=26.04$   $\sigma_M=101.31$   $\tau=8.40$   $\sigma_{max}=127.35$   
 Tensioni:  $\sigma_N=26.04$   $\sigma_M=17.03$   $\tau=20.39$   $\tau_{max}=20.39$   
 Tensioni:  $\sigma_N=26.04$   $\sigma_M=101.31$   $\tau=8.40$   $\sigma_{ID,max}=128.18$

Asta n. 3231 (-9176 -11637) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3276.90$   $My,Ed=73.86$   $Mz,Ed=-0.41$   
 Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=10.47$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$   $Ncr,y=70995200.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$   $Ncr,z=37348500.00$   $\lambda'_{z}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.03+0.00=0.08$   
 Verifica ZZ:  $0.05+0.02+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1372.29$   $T_z=-9.48$   $M_y=59.92$   $T_y=-7.06$   $M_z=-7.33$   $M_x=-1.53$   
 Tensioni:  $\sigma_N=-72.23$   $\sigma_M=-110.57$   $\tau=1.77$   $\sigma_{max}=-182.79$   
 Tensioni:  $\sigma_N=-72.23$   $\sigma_M=-87.74$   $\tau=2.79$   $\tau_{max}=2.79$   
 Tensioni:  $\sigma_N=-72.23$   $\sigma_M=-110.57$   $\tau=1.77$   $\sigma_{ID,max}=182.82$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-3275.01$   $T_z=-107.50$   $M_y=73.86$   $M_x=1.09$   
 $V,Ed=-107.50$   $Vc,Rd,Red=22238.90$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=760.14$   $T_z=128.06$   $M_y=25.29$   $T_y=-11.29$   $M_z=-12.96$   $M_x=-7.13$   
 Tensioni:  $\sigma_N=40.01$   $\sigma_M=66.64$   $\tau=8.27$   $\sigma_{max}=106.64$   
 Tensioni:  $\sigma_N=40.01$   $\sigma_M=22.96$   $\tau=21.27$   $\tau_{max}=21.27$   
 Tensioni:  $\sigma_N=40.01$   $\sigma_M=66.64$   $\tau=8.27$   $\sigma_{ID,max}=107.60$

Asta n. 3231 (-11637 -15964) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3420.08$   $My,Ed=69.55$   $Mz,Ed=-0.52$   
 Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $Ncr,y=68214800.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $Ncr,z=35885800.00$   $\lambda'_{z}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.03+0.00=0.08$   
 Verifica ZZ:  $0.05+0.02+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1344.72$   $T_z=419.31$   $M_y=55.10$   $T_y=-6.64$   $M_z=-7.53$   $M_x=-1.63$   
 Tensioni:  $\sigma_N=-70.77$   $\sigma_M=-103.27$   $\tau=1.89$   $\sigma_{max}=-174.05$   
 Tensioni:  $\sigma_N=-70.77$   $\sigma_M=13.34$   $\tau=44.45$   $\tau_{max}=44.45$   
 Tensioni:  $\sigma_N=-70.77$   $\sigma_M=-103.27$   $\tau=1.89$   $\sigma_{ID,max}=174.08$

- Verifica a taglio dir. Z [4.2.16] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3420.08$   $T_z=662.40$   $M_y=69.55$   
 $V,Ed=662.40$   $Vc,Rd=22253.40$   $V,Ed/Vc,Rd=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.11$  - Classe 3

Sollecitazioni:  $N=696.50$   $T_z=132.76$   $M_y=28.79$   $T_y=-12.83$   $M_z=-18.67$   $M_x=-9.23$   
 Tensioni:  $\sigma_N=36.66$   $\sigma_M=83.78$   $\tau=10.70$   $\sigma_{max}=120.44$   
 Tensioni:  $\sigma_N=36.66$   $\sigma_M=33.07$   $\tau=24.18$   $\tau_{max}=24.18$   
 Tensioni:  $\sigma_N=36.66$   $\sigma_M=83.78$   $\tau=10.70$   $\sigma_{ID,max}=121.86$

Asta n. 3318 (2308 -2703) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
 Sollecitazioni:  $N,Ed=-4393.10$   $M_y,Ed=-607.92$   $M_z,Ed=-243.33$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=8.88$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.43$  Ncr,  $y=92050800.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.92$  Ncr,  $z=63851400.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.24+0.11=0.41$   
 Verifica ZZ:  $0.05+0.20+0.11=0.36$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=1548.09$   $T_z=8681.75$   $M_y=-513.67$   $T_y=890.85$   $M_z=-359.02$   $M_x=36.33$   
 Tensioni:  $\sigma_N=59.00$   $\sigma_M=1323.23$   $\tau=34.28$   $\sigma_{max}=1382.23$   
 Tensioni:  $\sigma_N=59.00$   $\sigma_M=-472.46$   $\tau=708.48$   $\tau_{max}=708.48$   
 Tensioni:  $\sigma_N=59.00$   $\sigma_M=1206.01$   $\tau=421.41$   $\sigma_{ID,max}=1460.47$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=-4392.11$   $T_z=7279.52$   $M_y=-607.92$   $T_y=428.56$   $M_z=-220.52$   $M_x=18.49$   
 Tensioni:  $\sigma_N=-167.38$   $\sigma_M=-1229.83$   $\tau=17.44$   $\sigma_{max}=-1397.21$   
 Tensioni:  $\sigma_N=-167.38$   $\sigma_M=-290.20$   $\tau=582.70$   $\tau_{max}=582.70$   
 Tensioni:  $\sigma_N=-167.38$   $\sigma_M=-1091.09$   $\tau=399.53$   $\sigma_{ID,max}=1436.19$

Asta n. 3318 (-2703 -2932) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
 Sollecitazioni:  $N,Ed=-4392.28$   $M_y,Ed=-1384.61$   $M_z,Ed=-219.71$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.92$  Ncr,  $y=63723900.00$   $\lambda^*_y=0.04$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.51$  Ncr,  $z=44202300.00$   $\lambda^*_z=0.05$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.56+0.10=0.71$   
 Verifica ZZ:  $0.05+0.44+0.10=0.60$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.11$  - Classe 3  
 Sollecitazioni:  $N=1550.41$   $T_z=8679.14$   $M_y=-1441.06$   $T_y=903.99$   $M_z=-261.77$   $M_x=35.99$   
 Tensioni:  $\sigma_N=59.09$   $\sigma_M=2485.99$   $\tau=33.96$   $\sigma_{max}=2545.08$   
 Tensioni:  $\sigma_N=59.09$   $\sigma_M=-344.49$   $\tau=707.95$   $\tau_{max}=707.95$   
 Tensioni:  $\sigma_N=59.09$   $\sigma_M=2485.99$   $\tau=33.96$   $\sigma_{ID,max}=2545.76$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.11$  - Classe 3  
 Sollecitazioni:  $N=4815.76$   $T_z=7277.73$   $M_y=-1384.61$   $T_y=441.12$   $M_z=-172.87$   $M_x=18.14$   
 Tensioni:  $\sigma_N=183.53$   $\sigma_M=2259.22$   $\tau=17.12$   $\sigma_{max}=2442.75$   
 Tensioni:  $\sigma_N=183.53$   $\sigma_M=-227.49$   $\tau=582.24$   $\tau_{max}=582.24$   
 Tensioni:  $\sigma_N=183.53$   $\sigma_M=2259.22$   $\tau=17.12$   $\sigma_{ID,max}=2442.93$

Asta n. 3318 (-2932 -3124) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5482.69$   $M_y,Ed=-1159.78$   $M_z,Ed=-253.38$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$  Ncr,  $y=254892000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,  $z=176807000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.37+0.12=0.55$   
 Verifica ZZ:  $0.06+0.30+0.12=0.48$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5482.69$   $T_z=-3146.66$   $M_y=-1159.78$   $T_y=721.88$   $M_z=-253.38$   $M_x=45.37$   
 Tensioni:  $\sigma_N=-208.94$   $\sigma_M=-2070.99$   $\tau=42.81$   $\sigma_{max}=-2279.94$   
 Tensioni:  $\sigma_N=-208.94$   $\sigma_M=333.44$   $\tau=287.27$   $\tau_{max}=287.27$

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Tensioni:  $\sigma_N=-208.94$   $\sigma_M=-2070.99$   $\tau=42.81$   $\sigma_{ID,max}=2281.14$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X1=0.01$   
 Sollecitazioni:  $N=-1860.44$   $T_z=230.83$   $T_y=208.98$   $M_z=-51.61$   $M_x=13.97$   
 $V,Ed=208.98$   $Vc,Rd,Red=22611.50$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=230.83$   $Vc,Rd,Red=28264.40$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2476.45$   $T_z=-3402.96$   $M_y=-1110.16$   $T_y=362.17$   $M_z=-170.33$   $M_x=19.34$   
 Tensioni:  $\sigma_N=-94.38$   $\sigma_M=-1863.60$   $\tau=18.25$   $\sigma_{max}=-1957.98$   
 Tensioni:  $\sigma_N=-94.38$   $\sigma_M=224.15$   $\tau=282.51$   $\tau_{max}=282.51$   
 Tensioni:  $\sigma_N=-94.38$   $\sigma_M=-1863.60$   $\tau=18.25$   $\sigma_{ID,max}=1958.23$

Asta n. 3318 (-3124 -3350) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6485.39$   $M_y,Ed=-980.21$   $M_z,Ed=-208.52$   
 Resistenze:  $Nc,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $Ncr,y=254896000.00$   $\lambda_y^*=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $Ncr,z=176810000.00$   $\lambda_z^*=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.07+0.32+0.10=0.49$   
 Verifica ZZ:  $0.07+0.25+0.10=0.42$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6485.39$   $T_z=-3917.96$   $M_y=-980.21$   $T_y=715.64$   $M_z=-208.52$   $M_x=45.67$   
 Tensioni:  $\sigma_N=-247.16$   $\sigma_M=-1741.08$   $\tau=43.09$   $\sigma_{max}=-1988.23$   
 Tensioni:  $\sigma_N=-247.16$   $\sigma_M=274.41$   $\tau=347.42$   $\tau_{max}=347.42$   
 Tensioni:  $\sigma_N=-247.16$   $\sigma_M=-1741.08$   $\tau=43.09$   $\sigma_{ID,max}=1989.63$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3319.04$   $T_z=-4009.56$   $M_y=-916.57$   $T_y=362.42$   $M_z=-147.92$   $M_x=19.40$   
 Tensioni:  $\sigma_N=-126.49$   $\sigma_M=-1550.64$   $\tau=18.31$   $\sigma_{max}=-1677.13$   
 Tensioni:  $\sigma_N=-126.49$   $\sigma_M=194.66$   $\tau=329.67$   $\tau_{max}=329.67$   
 Tensioni:  $\sigma_N=-126.49$   $\sigma_M=-1550.64$   $\tau=18.31$   $\sigma_{ID,max}=1677.43$

Asta n. 3318 (-3350 -3678) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6953.54$   $M_y,Ed=-766.37$   $M_z,Ed=-163.85$   
 Resistenze:  $Nc,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $Ncr,y=254897000.00$   $\lambda_y^*=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $Ncr,z=176810000.00$   $\lambda_z^*=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.08+0.25+0.08=0.40$   
 Verifica ZZ:  $0.08+0.20+0.08=0.35$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6953.54$   $T_z=-3510.07$   $M_y=-766.37$   $T_y=702.17$   $M_z=-163.85$   $M_x=46.01$   
 Tensioni:  $\sigma_N=-265.00$   $\sigma_M=-1362.59$   $\tau=43.41$   $\sigma_{max}=-1627.59$   
 Tensioni:  $\sigma_N=-265.00$   $\sigma_M=215.62$   $\tau=316.07$   $\tau_{max}=316.07$   
 Tensioni:  $\sigma_N=-265.00$   $\sigma_M=-1362.59$   $\tau=43.41$   $\sigma_{ID,max}=1629.32$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3741.33$   $T_z=-3543.51$   $M_y=-697.88$   $T_y=358.47$   $M_z=-125.52$   $M_x=19.52$   
 Tensioni:  $\sigma_N=-142.58$   $\sigma_M=-1201.86$   $\tau=18.41$   $\sigma_{max}=-1344.45$   
 Tensioni:  $\sigma_N=-142.58$   $\sigma_M=165.18$   $\tau=293.59$   $\tau_{max}=293.59$   
 Tensioni:  $\sigma_N=-142.58$   $\sigma_M=-1201.86$   $\tau=18.41$   $\sigma_{ID,max}=1344.82$

Asta n. 3318 (-3678 -4184) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6887.53$   $M_y,Ed=-575.65$   $M_z,Ed=-120.42$   
 Resistenze:  $Nc,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=1.46$  Ncr,y=254897000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176810000.00  $\lambda'_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.08+0.19+0.06=0.32  
 Verifica ZZ: 0.08+0.15+0.06=0.28

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6887.53 T<sub>z</sub>=-2630.03 M<sub>y</sub>=-575.65 T<sub>y</sub>=718.26 M<sub>z</sub>=-120.42 M<sub>x</sub>=45.77  
 Tensioni:  $\sigma_N=-262.48$   $\sigma_M=-1019.14$   $\tau=43.18$   $\sigma_{max}=-1281.62$   
 Tensioni:  $\sigma_N=-262.48$   $\sigma_M=158.47$   $\tau=247.55$   $\tau_{max}=247.55$   
 Tensioni:  $\sigma_N=-262.48$   $\sigma_M=-1019.14$   $\tau=43.18$   $\sigma_{ID,max}=1283.80$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.02  
 Sollecitazioni: N=-866.36 T<sub>z</sub>=318.31 T<sub>y</sub>=153.17 M<sub>z</sub>=-2.43 M<sub>x</sub>=7.90  
 V,Ed=153.17 Vc,Rd,Red=22678.30 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=318.31 Vc,Rd,Red=28347.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3680.86 T<sub>z</sub>=-2742.86 M<sub>y</sub>=-505.15 T<sub>y</sub>=357.98 M<sub>z</sub>=-103.39 M<sub>x</sub>=19.45  
 Tensioni:  $\sigma_N=-140.28$   $\sigma_M=-890.58$   $\tau=18.36$   $\sigma_{max}=-1030.85$   
 Tensioni:  $\sigma_N=-140.28$   $\sigma_M=136.06$   $\tau=231.37$   $\tau_{max}=231.37$   
 Tensioni:  $\sigma_N=-140.28$   $\sigma_M=-890.58$   $\tau=18.36$   $\sigma_{ID,max}=1031.34$

Asta n. 3318 (-4184 -5527) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12158.60 M<sub>y</sub>,Ed=-306.11 M<sub>z</sub>,Ed=-40.24  
 Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68206400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35881400.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.11+0.02=0.33  
 Verifica ZZ: 0.19+0.09+0.02=0.30

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/8617)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/10183)

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-12158.60 T<sub>z</sub>=-1008.05 M<sub>y</sub>=-306.11 T<sub>y</sub>=293.75 M<sub>z</sub>=-40.24 M<sub>x</sub>=37.95  
 Tensioni:  $\sigma_N=-639.93$   $\sigma_M=-570.48$   $\tau=44.00$   $\sigma_{max}=-1210.41$   
 Tensioni:  $\sigma_N=-639.93$   $\sigma_M=71.28$   $\tau=146.35$   $\tau_{max}=146.35$   
 Tensioni:  $\sigma_N=-639.93$   $\sigma_M=-570.48$   $\tau=44.00$   $\sigma_{ID,max}=1212.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-4683.36 T<sub>z</sub>=-1782.12 M<sub>y</sub>=-225.91 T<sub>y</sub>=591.79 M<sub>x</sub>=42.06  
 V,Ed=591.79 Vc,Rd,Red=14464.90 V,Ed/Vc,Rd,Red=0.04

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-1782.12 Vc,Rd,Red=21697.40 V,Ed/Vc,Rd,Red=0.08

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2450.49 T<sub>z</sub>=-1704.71 M<sub>y</sub>=-328.68 T<sub>y</sub>=312.36 M<sub>z</sub>=-73.83 M<sub>x</sub>=18.84  
 Tensioni:  $\sigma_N=-128.97$   $\sigma_M=-674.54$   $\tau=21.84$   $\sigma_{max}=-803.51$   
 Tensioni:  $\sigma_N=-128.97$   $\sigma_M=130.78$   $\tau=194.91$   $\tau_{max}=194.91$   
 Tensioni:  $\sigma_N=-128.97$   $\sigma_M=-674.54$   $\tau=21.84$   $\sigma_{ID,max}=804.40$

Asta n. 3318 (-5527 -7067) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12295.80 M<sub>y</sub>,Ed=-196.56 M<sub>z</sub>,Ed=27.51  
 Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68207100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35881800.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$



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Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.07+0.02=0.28  
Verifica ZZ: 0.19+0.06+0.02=0.27

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,c}=0.00$  (L/8961)
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-12295.80$   $T_z=-1067.26$   $M_y=-196.56$   $T_y=288.52$   $M_z=-3.31$   $M_x=37.94$   
Tensioni:  $\sigma_N=-647.15$   $\sigma_M=-320.72$   $\tau=43.99$   $\sigma_{max}=-967.87$   
Tensioni:  $\sigma_N=-647.15$   $\sigma_M=5.87$   $\tau=152.35$   $\tau_{max}=152.35$   
Tensioni:  $\sigma_N=-647.15$   $\sigma_M=-320.72$   $\tau=43.99$   $\sigma_{ID,max}=970.86$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.01$   
Sollecitazioni:  $N=-12295.60$   $T_z=-1067.34$   $M_y=-186.20$   $T_y=288.52$   $M_x=37.94$   
 $V,Ed=288.52$   $Vc,Rd,Red=14501.30$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-1067.34$   $Vc,Rd,Red=21751.90$   $V,Ed/Vc,Rd,Red=0.05$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-1852.75$   $T_z=-870.56$   $M_y=-144.40$   $T_y=303.11$   $M_z=48.97$   $M_x=17.81$   
Tensioni:  $\sigma_N=-97.51$   $\sigma_M=-329.82$   $\tau=20.65$   $\sigma_{max}=-427.33$   
Tensioni:  $\sigma_N=-97.51$   $\sigma_M=-86.75$   $\tau=109.06$   $\tau_{max}=109.06$   
Tensioni:  $\sigma_N=-97.51$   $\sigma_M=-329.82$   $\tau=20.65$   $\sigma_{ID,max}=428.82$

Asta n. 3318 (-7067 -7782) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-11278.80$   $M_y,Ed=-84.20$   $M_z,Ed=52.14$   
Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $Ncr,y=273088000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $Ncr,z=143663000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.18+0.03+0.03=0.24  
Verifica ZZ: 0.18+0.02+0.03=0.23
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-11278.80$   $T_z=-750.64$   $M_y=-84.20$   $T_y=295.43$   $M_z=36.36$   $M_x=35.94$   
Tensioni:  $\sigma_N=-593.62$   $\sigma_M=-208.13$   $\tau=41.67$   $\sigma_{max}=-801.75$   
Tensioni:  $\sigma_N=-593.62$   $\sigma_M=-64.42$   $\tau=117.90$   $\tau_{max}=117.90$   
Tensioni:  $\sigma_N=-593.62$   $\sigma_M=-208.13$   $\tau=41.67$   $\sigma_{ID,max}=804.99$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-1518.43$   $T_z=-411.16$   $M_y=-51.73$   $T_y=291.16$   $M_z=57.93$   $M_x=17.87$   
Tensioni:  $\sigma_N=-79.92$   $\sigma_M=-199.93$   $\tau=20.72$   $\sigma_{max}=-279.85$   
Tensioni:  $\sigma_N=-79.92$   $\sigma_M=75.76$   $\tau=62.98$   $\tau_{max}=62.98$   
Tensioni:  $\sigma_N=-79.92$   $\sigma_M=-193.04$   $\tau=45.90$   $\sigma_{ID,max}=284.30$

Asta n. 3318 (-7782 -8583) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-10752.40$   $M_y,Ed=-53.36$   $M_z,Ed=73.78$   
Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $Ncr,y=273094000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $Ncr,z=143667000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.04=0.23  
Verifica ZZ: 0.17+0.02+0.04=0.23
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-10752.40$   $T_z=-654.43$   $M_y=-53.36$   $T_y=305.51$   $M_z=57.47$   $M_x=35.22$   
Tensioni:  $\sigma_N=-565.92$   $\sigma_M=-201.60$   $\tau=40.83$   $\sigma_{max}=-767.51$   
Tensioni:  $\sigma_N=-565.92$   $\sigma_M=-101.81$   $\tau=107.30$   $\tau_{max}=107.30$   
Tensioni:  $\sigma_N=-565.92$   $\sigma_M=-194.50$   $\tau=80.91$   $\sigma_{ID,max}=773.22$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-1495.50$   $T_z=-307.08$   $M_y=-29.90$   $T_y=295.28$   $M_z=62.56$   $M_x=17.86$

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Tensioni:  $\sigma_N=-78.71$   $\sigma_M=-174.41$   $\tau=20.71$   $\sigma_{max}=-253.12$   
Tensioni:  $\sigma_N=-78.71$   $\sigma_M=43.79$   $\tau=63.53$   $\tau_{max}=63.53$   
Tensioni:  $\sigma_N=-78.71$   $\sigma_M=-170.43$   $\tau=39.52$   $\sigma_{ID,max}=258.37$

Asta n. 3318 (-8583 3501) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-10545.80 My,Ed=104.03 Mz,Ed=87.66  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68272600.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916200.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.04+0.05=0.25  
Verifica ZZ: 0.16+0.03+0.05=0.25

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.11 - Classe 3  
Sollecitazioni: N=-10543.90 Tz=-1111.89 My=104.03 Ty=37.88 Mz=87.66 Mx=10.50  
Tensioni:  $\sigma_N=-554.94$   $\sigma_M=-343.65$   $\tau=12.18$   $\sigma_{max}=-898.59$   
Tensioni:  $\sigma_N=-554.94$   $\sigma_M=-155.28$   $\tau=125.05$   $\tau_{max}=125.05$   
Tensioni:  $\sigma_N=-554.94$   $\sigma_M=-343.65$   $\tau=12.18$   $\sigma_{ID,max}=898.83$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.06  
Sollecitazioni: N=-2354.53 Tz=-627.06 Ty=181.36 Mz=190.17 Mx=8.73  
V,Ed=181.36 Vc,Rd,Red=14758.60 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-627.06 Vc,Rd,Red=22138.00 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.11 - Classe 3  
Sollecitazioni: N=-1146.08 Tz=-279.89 My=18.23 Ty=159.48 Mz=81.04 Mx=10.58  
Tensioni:  $\sigma_N=-60.32$   $\sigma_M=-193.19$   $\tau=12.27$   $\sigma_{max}=-253.51$   
Tensioni:  $\sigma_N=-60.32$   $\sigma_M=-143.56$   $\tau=40.71$   $\tau_{max}=40.71$   
Tensioni:  $\sigma_N=-60.32$   $\sigma_M=-190.77$   $\tau=29.41$   $\sigma_{ID,max}=256.20$

Asta n. 3338 (2312 -2726) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-6647.35 My,Ed=-743.94 Mz,Ed=90.28  
Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=10.05  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.75$  Ncr,y=71933000.00  $\lambda'_y=0.04$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.30$  Ncr,z=49896600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.07+0.30+0.04=0.42  
Verifica ZZ: 0.07+0.24+0.04=0.36

- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.05 - Classe 3  
Sollecitazioni: N=-1148.60 Tz=8888.49 My=-157.36 Ty=-566.89 Mz=214.21 Mx=-267.61  
Tensioni:  $\sigma_N=-43.77$   $\sigma_M=-576.80$   $\tau=252.49$   $\sigma_{max}=-620.58$   
Tensioni:  $\sigma_N=-43.77$   $\sigma_M=-281.89$   $\tau=942.69$   $\tau_{max}=942.69$   
Tensioni:  $\sigma_N=-43.77$   $\sigma_M=-352.37$   $\tau=942.67$   $\sigma_{ID,max}=1680.12$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.07  
Sollecitazioni: N=-4269.01 Tz=3518.51 Ty=-443.60 Mz=156.15 Mx=-148.60  
V,Ed=-443.60 Vc,Rd,Red=21130.10 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=3518.51 Vc,Rd,Red=26412.60 V,Ed/Vc,Rd,Red=0.13

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6646.48 Tz=7740.18 My=-743.94 Ty=-247.11 Mz=78.58 Mx=-117.65  
Tensioni:  $\sigma_N=-253.30$   $\sigma_M=-1190.34$   $\tau=111.01$   $\sigma_{max}=-1443.64$   
Tensioni:  $\sigma_N=-253.30$   $\sigma_M=-103.41$   $\tau=712.02$   $\tau_{max}=712.02$   
Tensioni:  $\sigma_N=-253.30$   $\sigma_M=-1020.57$   $\tau=517.27$   $\sigma_{ID,max}=1557.39$

Asta n. 3338 (-2726 -2945) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-6646.41 My,Ed=-1479.33 Mz,Ed=78.79

Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=9.51

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.60$  Ncr,y=80301600.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.12$  Ncr,z=55701500.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.59+0.04=0.71

Verifica ZZ: 0.07+0.48+0.04=0.59

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=1679.99 Tz=8967.96 My=-1504.50 Ty=-648.62 Mz=139.69 Mx=-200.88  
Tensioni:  $\sigma_N=64.02$   $\sigma_M=2375.65$   $\tau=189.53$   $\sigma_{max}=2439.68$   
Tensioni:  $\sigma_N=64.02$   $\sigma_M=-183.83$   $\tau=885.91$   $\tau_{max}=885.91$   
Tensioni:  $\sigma_N=64.02$   $\sigma_M=2375.65$   $\tau=189.53$   $\sigma_{ID,max}=2461.67$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU Xl=0.05  
Sollecitazioni: N=-2601.29 Tz=728.19 Ty=-249.77 Mz=63.66 Mx=-39.62  
V,Ed=-249.77 Vc,Rd,Red=22329.30 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=728.19 Vc,Rd,Red=27911.60 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=7014.96 Tz=7739.45 My=-1479.33 Ty=-245.12 Mz=55.58 Mx=-117.65  
Tensioni:  $\sigma_N=267.34$   $\sigma_M=2201.39$   $\tau=111.01$   $\sigma_{max}=2468.73$   
Tensioni:  $\sigma_N=267.34$   $\sigma_M=-73.14$   $\tau=711.96$   $\tau_{max}=711.96$   
Tensioni:  $\sigma_N=267.34$   $\sigma_M=2201.39$   $\tau=111.01$   $\sigma_{ID,max}=2476.20$

Asta n. 3338 (-2945 -3126) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-3296.84 My,Ed=-1178.80 Mz,Ed=64.85  
Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=1.46$  Ncr,y=254895000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176809000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.47+0.03=0.54  
Verifica ZZ: 0.04+0.38+0.03=0.45
- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7641.79 Tz=-3020.30 My=-1150.33 Ty=-550.96 Mz=162.02 Mx=-198.64  
Tensioni:  $\sigma_N=-291.23$   $\sigma_M=-1907.24$   $\tau=187.42$   $\sigma_{max}=-2198.47$   
Tensioni:  $\sigma_N=-291.23$   $\sigma_M=213.22$   $\tau=422.00$   $\tau_{max}=422.00$   
Tensioni:  $\sigma_N=-291.23$   $\sigma_M=-1907.24$   $\tau=187.42$   $\sigma_{ID,max}=2222.30$
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3296.84 Tz=-3769.15 My=-1178.80 Ty=-227.55 Mz=64.85 Mx=-91.34  
Tensioni:  $\sigma_N=-125.64$   $\sigma_M=-1787.98$   $\tau=86.18$   $\sigma_{max}=-1913.62$   
Tensioni:  $\sigma_N=-125.64$   $\sigma_M=85.33$   $\tau=378.86$   $\tau_{max}=378.86$   
Tensioni:  $\sigma_N=-125.64$   $\sigma_M=-1787.98$   $\tau=86.18$   $\sigma_{ID,max}=1919.44$

Asta n. 3338 (-3126 -3352) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3  
Sollecitazioni: N,Ed=-8581.92 My,Ed=-977.59 Mz,Ed=127.67  
Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=1.46$  Ncr,y=254895000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176809000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.32+0.06=0.47  
Verifica ZZ: 0.10+0.25+0.06=0.41
- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-8581.92 Tz=-3854.93 My=-977.59 Ty=-590.37 Mz=127.67 Mx=-197.74  
Tensioni:  $\sigma_N=-327.06$   $\sigma_M=-1604.36$   $\tau=186.57$   $\sigma_{max}=-1931.41$   
Tensioni:  $\sigma_N=-327.06$   $\sigma_M=168.02$   $\tau=485.95$   $\tau_{max}=485.95$   
Tensioni:  $\sigma_N=-327.06$   $\sigma_M=-1604.36$   $\tau=186.57$   $\sigma_{ID,max}=1958.26$

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- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2942.65$   $T_x=-4416.73$   $M_y=-963.92$   $T_y=-240.48$   $M_z=50.70$   $M_x=-91.02$   
 Tensioni:  $\sigma_N=-112.14$   $\sigma_M=-1458.24$   $\tau=85.88$   $\sigma_{max}=-1570.38$   
 Tensioni:  $\sigma_N=-112.14$   $\sigma_M=66.72$   $\tau=428.83$   $\tau_{max}=428.83$   
 Tensioni:  $\sigma_N=-112.14$   $\sigma_M=-1458.24$   $\tau=85.88$   $\sigma_{ID,max}=1577.41$

Asta n. 3338 (-3352 -3690) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8938.37$   $M_y,Ed=-766.73$   $M_z,Ed=91.08$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $N_{cr,y}=254893000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $N_{cr,z}=176808000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.25+0.04=0.39$   
 Verifica ZZ:  $0.10+0.20+0.04=0.34$

- Verifica in termini tensionali [4.2.4] - CC 68 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-8938.37$   $T_x=-3451.05$   $M_y=-766.73$   $T_y=-584.72$   $M_z=91.08$   $M_x=-197.48$   
 Tensioni:  $\sigma_N=-340.64$   $\sigma_M=-1243.42$   $\tau=186.33$   $\sigma_{max}=-1584.06$   
 Tensioni:  $\sigma_N=-340.64$   $\sigma_M=119.86$   $\tau=454.35$   $\tau_{max}=454.35$   
 Tensioni:  $\sigma_N=-340.64$   $\sigma_M=-1243.42$   $\tau=186.33$   $\sigma_{ID,max}=1616.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_1=0.04$   
 Sollecitazioni:  $N=-1215.07$   $T_x=295.41$   $T_y=-139.70$   $M_z=8.58$   $M_x=-9.31$   
 $V,Ed=-139.70$   $V_c,Rd,Red=22662.90$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=295.41$   $V_c,Rd,Red=28328.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2845.46$   $T_x=-3851.69$   $M_y=-723.05$   $T_y=-238.79$   $M_z=35.81$   $M_x=-90.92$   
 Tensioni:  $\sigma_N=-108.44$   $\sigma_M=-1090.19$   $\tau=85.78$   $\sigma_{max}=-1198.63$   
 Tensioni:  $\sigma_N=-108.44$   $\sigma_M=47.13$   $\tau=384.87$   $\tau_{max}=384.87$   
 Tensioni:  $\sigma_N=-108.44$   $\sigma_M=-1090.19$   $\tau=85.78$   $\sigma_{ID,max}=1207.80$

Asta n. 3338 (-3690 -4196) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8828.55$   $M_y,Ed=-579.83$   $M_z,Ed=55.10$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $N_{cr,y}=254897000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $N_{cr,z}=176810000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.19+0.03=0.31$   
 Verifica ZZ:  $0.10+0.15+0.03=0.27$

- Verifica in termini tensionali [4.2.4] - CC 68 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-8828.55$   $T_x=-2566.14$   $M_y=-579.83$   $T_y=-596.67$   $M_z=55.10$   $M_x=-197.05$   
 Tensioni:  $\sigma_N=-336.45$   $\sigma_M=-917.65$   $\tau=185.92$   $\sigma_{max}=-1254.10$   
 Tensioni:  $\sigma_N=-336.45$   $\sigma_M=72.51$   $\tau=385.24$   $\tau_{max}=385.24$   
 Tensioni:  $\sigma_N=-336.45$   $\sigma_M=-917.65$   $\tau=185.92$   $\sigma_{ID,max}=1294.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_1=0.04$   
 Sollecitazioni:  $N=-1249.58$   $T_x=321.44$   $M_y=-15.48$   $T_y=-142.91$   $M_x=-9.49$   
 $V,Ed=-142.91$   $V_c,Rd,Red=22660.90$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=321.44$   $V_c,Rd,Red=28326.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2819.73$   $T_x=-2979.14$   $M_y=-514.59$   $T_y=-243.68$   $M_z=21.16$   $M_x=-90.76$   
 Tensioni:  $\sigma_N=-107.46$   $\sigma_M=-768.76$   $\tau=85.64$   $\sigma_{max}=-876.22$   
 Tensioni:  $\sigma_N=-107.46$   $\sigma_M=27.84$   $\tau=316.97$   $\tau_{max}=316.97$   
 Tensioni:  $\sigma_N=-107.46$   $\sigma_M=-768.76$   $\tau=85.64$   $\sigma_{ID,max}=888.68$

Asta n. 3338 (-4196 -5560) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12271.60 My,Ed=-323.05 Mz,Ed=-17.85  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$  Ncr,y=68273400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.12+0.01=0.32  
 Verifica ZZ: 0.19+0.10+0.01=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.01 - Classe 3  
 Sollecitazioni: N=-12271.40 Tz=-1280.42 My=-310.62 Ty=-168.31 Mz=-1.51 Mx=-106.27  
 Tensioni:  $\sigma_N=-645.86$   $\sigma_M=-499.28$   $\tau=123.21$   $\sigma_{max}=-1145.14$   
 Tensioni:  $\sigma_N=-645.86$   $\sigma_M=-2.68$   $\tau=253.19$   $\tau_{max}=253.19$   
 Tensioni:  $\sigma_N=-645.86$   $\sigma_M=-499.28$   $\tau=123.21$   $\sigma_{TD,max}=1164.86$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
 Sollecitazioni: N=-12271.60 Tz=-1280.33 My=-323.05 Ty=-168.31 Mx=-106.27  
 V,Ed=-168.31 Vc,Rd,Red=13899.20 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-1280.33 Vc,Rd,Red=20848.80 V,Ed/Vc,Rd,Red=0.06

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2068.22 Tz=-1855.96 My=-325.98 Ty=-166.64 Mz=-5.15 Mx=-84.48  
 Tensioni:  $\sigma_N=-108.85$   $\sigma_M=-531.18$   $\tau=97.95$   $\sigma_{max}=-640.04$   
 Tensioni:  $\sigma_N=-108.85$   $\sigma_M=-9.12$   $\tau=286.35$   $\tau_{max}=286.35$   
 Tensioni:  $\sigma_N=-108.85$   $\sigma_M=-487.79$   $\tau=211.61$   $\sigma_{TD,max}=700.23$

Asta n. 3338 (-5560 -7070) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12451.60 My,Ed=-184.88 Mz,Ed=-48.13  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$  Ncr,y=68272800.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916300.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.07+0.03=0.29  
 Verifica ZZ: 0.19+0.05+0.03=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-12451.60 Tz=-902.99 My=-184.88 Ty=-214.59 Mz=-25.21 Mx=-106.07  
 Tensioni:  $\sigma_N=-655.35$   $\sigma_M=-346.39$   $\tau=122.97$   $\sigma_{max}=-1001.74$   
 Tensioni:  $\sigma_N=-655.35$   $\sigma_M=-44.66$   $\tau=214.65$   $\tau_{max}=214.65$   
 Tensioni:  $\sigma_N=-655.35$   $\sigma_M=-321.78$   $\tau=178.27$   $\sigma_{TD,max}=1024.75$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1958.17 Tz=-839.12 My=-127.13 Ty=-194.32 Mz=-28.19 Mx=-84.96  
 Tensioni:  $\sigma_N=-103.06$   $\sigma_M=-260.16$   $\tau=98.50$   $\sigma_{max}=-363.22$   
 Tensioni:  $\sigma_N=-103.06$   $\sigma_M=-49.93$   $\tau=183.69$   $\tau_{max}=183.69$   
 Tensioni:  $\sigma_N=-103.06$   $\sigma_M=-243.23$   $\tau=149.89$   $\sigma_{TD,max}=432.80$

Asta n. 3338 (-7070 -7799) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-11358.50 My,Ed=-91.14 Mz,Ed=-69.24  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$  Ncr,y=272826000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr,z=143526000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.03+0.04=0.25  
 Verifica ZZ: 0.18+0.03+0.04=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-11358.50 Tz=-571.38 My=-91.14 Ty=-231.40 Mz=-56.88 Mx=-102.76  
 Tensioni:  $\sigma_N=-597.81$   $\sigma_M=-260.76$   $\tau=119.14$   $\sigma_{max}=-858.57$   
 Tensioni:  $\sigma_N=-597.81$   $\sigma_M=-100.77$   $\tau=177.16$   $\tau_{max}=177.16$

Tensioni:  $\sigma_N=-597.81$   $\sigma_M=-248.63$   $\tau=154.14$   $\sigma_{ID,max}=887.54$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.05$  - Classe 3  
Sollecitazioni:  $N=-1768.68$   $T_z=-352.60$   $M_y=-32.13$   $T_y=-195.99$   $M_z=-66.91$   $M_x=-82.99$   
Tensioni:  $\sigma_N=-93.09$   $\sigma_M=-186.79$   $\tau=96.22$   $\sigma_{max}=-279.88$   
Tensioni:  $\sigma_N=-93.09$   $\sigma_M=-118.52$   $\tau=132.02$   $\tau_{max}=132.02$   
Tensioni:  $\sigma_N=-93.09$   $\sigma_M=-182.51$   $\tau=117.81$   $\sigma_{ID,max}=342.92$

Asta n. 3338 (-7799 -8598) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-10719.50$   $M_y,Ed=-70.13$   $M_z,Ed=-80.08$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr,y}=272823000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr,z}=143524000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.03+0.05=0.24$   
Verifica ZZ:  $0.17+0.02+0.05=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-10719.50$   $T_z=-916.02$   $M_y=-70.13$   $T_y=-251.47$   $M_z=-66.65$   $M_x=-105.72$   
Tensioni:  $\sigma_N=-564.19$   $\sigma_M=-246.96$   $\tau=122.57$   $\sigma_{max}=-811.15$   
Tensioni:  $\sigma_N=-564.19$   $\sigma_M=-118.06$   $\tau=215.57$   $\tau_{max}=215.57$   
Tensioni:  $\sigma_N=-564.19$   $\sigma_M=-237.62$   $\tau=178.67$   $\sigma_{ID,max}=859.46$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.05$  - Classe 3  
Sollecitazioni:  $N=-1640.64$   $T_z=-269.52$   $M_y=-19.62$   $T_y=-200.79$   $M_z=-75.94$   $M_x=-86.82$   
Tensioni:  $\sigma_N=-86.35$   $\sigma_M=-185.09$   $\tau=100.66$   $\sigma_{max}=-271.44$   
Tensioni:  $\sigma_N=-86.35$   $\sigma_M=28.73$   $\tau=129.77$   $\tau_{max}=129.77$   
Tensioni:  $\sigma_N=-86.35$   $\sigma_M=-182.48$   $\tau=117.17$   $\sigma_{ID,max}=336.83$

Asta n. 3338 (-8598 3503) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-10574.90$   $M_y,Ed=101.59$   $M_z,Ed=-91.82$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68268000.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35913800.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.04+0.05=0.25$   
Verifica ZZ:  $0.16+0.03+0.05=0.25$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/7464)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/7722)

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.11$  - Classe 3  
Sollecitazioni:  $N=-10572.90$   $T_z=-1110.22$   $M_y=101.59$   $T_y=62.71$   $M_z=-85.12$   $M_x=-75.03$   
Tensioni:  $\sigma_N=-556.47$   $\sigma_M=-334.62$   $\tau=87.00$   $\sigma_{max}=-891.10$   
Tensioni:  $\sigma_N=-556.47$   $\sigma_M=-150.78$   $\tau=199.69$   $\tau_{max}=199.69$   
Tensioni:  $\sigma_N=-556.47$   $\sigma_M=-321.10$   $\tau=154.98$   $\sigma_{ID,max}=917.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU  $Xl=0.06$   
Sollecitazioni:  $N=-3200.07$   $T_z=-612.33$   $T_y=-67.83$   $M_z=-191.93$   $M_x=-116.38$   
 $V,Ed=-67.83$   $V_c,Rd,Red=13810.10$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-612.33$   $V_c,Rd,Red=20715.20$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.11$  - Classe 3  
Sollecitazioni:  $N=-1350.23$   $T_z=-511.20$   $M_y=35.39$   $T_y=-55.20$   $M_z=-89.60$   $M_x=-69.58$   
Tensioni:  $\sigma_N=-71.06$   $\sigma_M=-237.93$   $\tau=80.67$   $\sigma_{max}=-309.00$   
Tensioni:  $\sigma_N=-71.06$   $\sigma_M=-158.72$   $\tau=132.56$   $\tau_{max}=132.56$   
Tensioni:  $\sigma_N=-71.06$   $\sigma_M=-233.22$   $\tau=111.98$   $\sigma_{ID,max}=360.84$

Asta n. 3860 (-10290 -11060) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N, Ed = -1812.14$  My, Ed = -2.63  
 Resistenze:  $N_c, Rd = 20053.30$  My, c, Rd = 421.84 L = 149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 65.02$  Ncr, y = 43923.40  $\lambda_y^* = 0.69$  Curva a:  $\Phi_y = 0.79$   $\chi_y = 0.85$   
 $\lambda_z = 65.02$  Ncr, z = 43923.40  $\lambda_z^* = 0.69$  Curva a:  $\Phi_z = 0.79$   $\chi_z = 0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 1.00, 0.60, 0.00, 1.00$   
 Verifica YY:  $0.11 + 0.01 = 0.11$   
 Verifica ZZ:  $0.11 = 0.11$
  - Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L} = 0.00$  (L/33205)
  - Verifica a compressione [4.2.9] - CC 45 SLU X1 = 0.00 - Classe 1  
 Sollecitazioni:  $N = -1812.14$   $T_2 = 7.07$   $M_x = -3.79$   
 $N, Ed = -1812.14$   $N_c, Rd = -20053.30$   $N, Ed/N_c, Rd = 0.09$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU X1 = 0.00  
 Sollecitazioni:  $N = -1347.88$   $T_2 = 7.07$   $M_x = -3.84$   
 $V, Ed = 7.07$   $V_c, Rd, Red = 5720.50$   $V, Ed/V_c, Rd, Red = 0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND X1 = 0.75 - Classe 3  
 Sollecitazioni:  $N = -400.28$   $M_y = -1.95$   $M_x = -1.74$   
 Tensioni:  $\sigma_N = -44.67$   $\sigma_M = -12.41$   $\tau = 6.94$   $\sigma_{max} = -57.09$   
 Tensioni:  $\sigma_N = -44.67$   $\sigma_M = 12.41$   $\tau = 6.94$   $\tau_{max} = 6.94$   
 Tensioni:  $\sigma_N = -44.67$   $\sigma_M = -12.41$   $\tau = 6.94$   $\sigma_{ID, max} = 58.34$

Asta n. 3862 (-10294 -11088) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N, Ed = -1807.22$  My, Ed = -2.64  
 Resistenze:  $N_c, Rd = 20053.30$  My, c, Rd = 421.84 L = 149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 65.02$  Ncr, y = 43923.40  $\lambda_y^* = 0.69$  Curva a:  $\Phi_y = 0.79$   $\chi_y = 0.85$   
 $\lambda_z = 65.02$  Ncr, z = 43923.40  $\lambda_z^* = 0.69$  Curva a:  $\Phi_z = 0.79$   $\chi_z = 0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 1.00, 0.60, 0.00, 1.00$   
 Verifica YY:  $0.11 + 0.01 = 0.11$   
 Verifica ZZ:  $0.11 = 0.11$
  - Verifica Freccia massima carichi totali - CC 30  
 $f_{z,L} = 0.00$  (L/33249)
  - Verifica a compressione [4.2.9] - CC 45 SLU X1 = 0.00 - Classe 1  
 Sollecitazioni:  $N = -1807.22$   $T_2 = 7.08$   $M_x = 3.42$   
 $N, Ed = -1807.22$   $N_c, Rd = -20053.30$   $N, Ed/N_c, Rd = 0.09$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU X1 = 0.00  
 Sollecitazioni:  $N = -1345.94$   $T_2 = 7.08$   $M_x = 3.53$   
 $V, Ed = 7.08$   $V_c, Rd, Red = 5726.05$   $V, Ed/V_c, Rd, Red = 0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND X1 = 0.75 - Classe 3  
 Sollecitazioni:  $N = -405.29$   $M_y = -1.95$   $M_x = 2.27$   
 Tensioni:  $\sigma_N = -45.23$   $\sigma_M = -12.45$   $\tau = 9.06$   $\sigma_{max} = -57.68$   
 Tensioni:  $\sigma_N = -45.23$   $\sigma_M = 12.45$   $\tau = 9.06$   $\tau_{max} = 9.06$   
 Tensioni:  $\sigma_N = -45.23$   $\sigma_M = -12.45$   $\tau = 9.06$   $\sigma_{ID, max} = 59.77$

Asta n. 3867 (-2523 -2662) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g} = 0.00$  (L/3406)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g} = 0.00$  (L/2893)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU X1 = 0.14 - Classe 3  
 Sollecitazioni:  $N = 4007.97$   $T_2 = 918.69$   $M_y = -129.12$   $T_y = 461.85$   $M_z = -108.64$   $M_x = 102.74$   
 Tensioni:  $\sigma_N = 308.31$   $\sigma_M = 915.24$   $\tau = 249.06$   $\sigma_{max} = 1223.54$   
 Tensioni:  $\sigma_N = 308.31$   $\sigma_M = -382.10$   $\tau = 390.32$   $\tau_{max} = 390.32$   
 Tensioni:  $\sigma_N = 308.31$   $\sigma_M = 915.24$   $\tau = 249.06$   $\sigma_{ID, max} = 1297.36$

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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU  $X_l=0.05$   
Sollecitazioni:  $N=3614.72$   $T_z=934.08$   $T_y=449.26$   $M_z=-150.94$   $M_x=109.42$   
 $V,Ed=449.26$   $V_c,Rd,Red=9397.78$   $V,Ed/V_c,Rd,Red=0.05$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=934.08$   $V_c,Rd,Red=12530.40$   $V,Ed/V_c,Rd,Red=0.07$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.14$  - Classe 3  
Sollecitazioni:  $N=2393.54$   $T_z=383.25$   $M_y=-86.47$   $T_y=240.97$   $M_z=-66.58$   $M_x=56.93$   
Tensioni:  $\sigma_N=184.12$   $\sigma_M=586.83$   $\tau=138.01$   $\sigma_{max}=770.95$   
Tensioni:  $\sigma_N=184.12$   $\sigma_M=-234.15$   $\tau=196.96$   $\tau_{max}=196.96$   
Tensioni:  $\sigma_N=184.12$   $\sigma_M=586.83$   $\tau=138.01$   $\sigma_{ID,max}=807.16$

Asta n. 3867 (-2662 -2994) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3454)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2993)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.15$  - Classe 3  
Sollecitazioni:  $N=4010.00$   $T_z=917.55$   $M_y=-266.80$   $T_y=462.94$   $M_z=-39.20$   $M_x=102.71$   
Tensioni:  $\sigma_N=267.33$   $\sigma_M=816.10$   $\tau=196.58$   $\sigma_{max}=1083.43$   
Tensioni:  $\sigma_N=267.33$   $\sigma_M=-113.62$   $\tau=310.63$   $\tau_{max}=310.63$   
Tensioni:  $\sigma_N=267.33$   $\sigma_M=793.37$   $\tau=270.38$   $\sigma_{ID,max}=1159.49$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.15$  - Classe 3  
Sollecitazioni:  $N=2395.10$   $T_z=382.21$   $M_y=-142.25$   $T_y=241.47$   $M_z=-30.49$   $M_x=56.92$   
Tensioni:  $\sigma_N=159.67$   $\sigma_M=468.49$   $\tau=108.93$   $\sigma_{max}=628.16$   
Tensioni:  $\sigma_N=159.67$   $\sigma_M=-88.38$   $\tau=156.45$   $\tau_{max}=156.45$   
Tensioni:  $\sigma_N=159.67$   $\sigma_M=450.81$   $\tau=147.43$   $\sigma_{ID,max}=661.74$

Asta n. 3867 (-2994 -4472) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.23$  - Classe 3  
Sollecitazioni:  $N=4014.02$   $T_z=915.23$   $M_y=-473.44$   $T_y=464.00$   $M_z=65.53$   $M_x=102.67$   
Tensioni:  $\sigma_N=211.26$   $\sigma_M=888.99$   $\tau=119.03$   $\sigma_{max}=1100.25$   
Tensioni:  $\sigma_N=211.26$   $\sigma_M=116.08$   $\tau=211.98$   $\tau_{max}=211.98$   
Tensioni:  $\sigma_N=211.26$   $\sigma_M=872.40$   $\tau=171.87$   $\sigma_{ID,max}=1123.81$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.08$   
Sollecitazioni:  $N=2633.66$   $T_z=787.01$   $M_y=-275.68$   $T_y=352.81$   $M_x=118.64$   
 $V,Ed=352.81$   $V_c,Rd,Red=13790.10$   $V,Ed/V_c,Rd,Red=0.03$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=787.01$   $V_c,Rd,Red=20685.20$   $V,Ed/V_c,Rd,Red=0.04$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.23$  - Classe 3  
Sollecitazioni:  $N=2398.12$   $T_z=380.28$   $M_y=-226.77$   $T_y=241.94$   $M_z=25.42$   $M_x=56.89$   
Tensioni:  $\sigma_N=126.22$   $\sigma_M=413.73$   $\tau=65.96$   $\sigma_{max}=539.95$   
Tensioni:  $\sigma_N=126.22$   $\sigma_M=45.03$   $\tau=104.59$   $\tau_{max}=104.59$   
Tensioni:  $\sigma_N=126.22$   $\sigma_M=407.30$   $\tau=93.51$   $\sigma_{ID,max}=557.56$

Asta n. 3867 (-4472 -6026) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=4521.67$   $T_z=-879.93$   $M_y=-419.60$   $T_y=375.50$   $M_z=75.25$   $M_x=95.04$   
Tensioni:  $\sigma_N=237.98$   $\sigma_M=822.66$   $\tau=110.20$   $\sigma_{max}=1060.64$   
Tensioni:  $\sigma_N=237.98$   $\sigma_M=-133.30$   $\tau=199.55$   $\tau_{max}=199.55$   
Tensioni:  $\sigma_N=237.98$   $\sigma_M=822.66$   $\tau=110.20$   $\sigma_{ID,max}=1077.68$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2264.72$   $T_z=-469.34$   $M_y=-199.75$   $T_y=204.81$   $M_z=29.12$   $M_x=53.18$   
Tensioni:  $\sigma_N=119.20$   $\sigma_M=378.07$   $\tau=61.66$   $\sigma_{max}=497.26$   
Tensioni:  $\sigma_N=119.20$   $\sigma_M=-51.59$   $\tau=109.32$   $\tau_{max}=109.32$   
Tensioni:  $\sigma_N=119.20$   $\sigma_M=370.70$   $\tau=84.98$   $\sigma_{ID,max}=511.53$

Asta n. 3867 (-6026 -7517) Tubo 80x120x5 mm - S355 Crit. 3



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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-548.20 My,Ed=-220.64 Mz,Ed=73.78  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68272000.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35915900.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}$ =0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.08+0.04=0.13  
 Verifica ZZ: 0.01+0.07+0.04=0.12

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=3850.19 T<sub>z</sub>=-987.70 M<sub>y</sub>=-319.21 T<sub>y</sub>=369.08 M<sub>z</sub>=121.62 M<sub>x</sub>=94.92  
 Tensioni:  $\sigma_N=202.64$   $\sigma_M=756.16$   $\tau=110.05$   $\sigma_{max}=958.80$   
 Tensioni:  $\sigma_N=202.64$   $\sigma_M=-215.44$   $\tau=210.34$   $\tau_{max}=210.34$   
 Tensioni:  $\sigma_N=202.64$   $\sigma_M=756.16$   $\tau=110.05$   $\sigma_{ID,max}=977.57$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=2016.99 T<sub>z</sub>=-497.44 M<sub>y</sub>=-146.82 T<sub>y</sub>=200.02 M<sub>z</sub>=52.86 M<sub>x</sub>=53.03  
 Tensioni:  $\sigma_N=106.16$   $\sigma_M=341.56$   $\tau=61.48$   $\sigma_{max}=447.72$   
 Tensioni:  $\sigma_N=106.16$   $\sigma_M=-93.64$   $\tau=111.99$   $\tau_{max}=111.99$   
 Tensioni:  $\sigma_N=106.16$   $\sigma_M=341.56$   $\tau=61.48$   $\sigma_{ID,max}=460.21$

Asta n. 3867 (-7517 -8365) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1481.76 My,Ed=-124.59 Mz,Ed=83.34  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=1.20$  Ncr,y=273098000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr,z=143669000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}$ =0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.05+0.05=0.12  
 Verifica ZZ: 0.02+0.04+0.05=0.11

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=3468.54 T<sub>z</sub>=-884.55 M<sub>y</sub>=-217.58 T<sub>y</sub>=303.80 M<sub>z</sub>=167.14 M<sub>x</sub>=93.51  
 Tensioni:  $\sigma_N=182.56$   $\sigma_M=685.95$   $\tau=108.42$   $\sigma_{max}=868.51$   
 Tensioni:  $\sigma_N=182.56$   $\sigma_M=-296.07$   $\tau=198.23$   $\tau_{max}=198.23$   
 Tensioni:  $\sigma_N=182.56$   $\sigma_M=685.95$   $\tau=108.42$   $\sigma_{ID,max}=888.58$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1866.62 T<sub>z</sub>=-448.86 M<sub>y</sub>=-95.41 T<sub>y</sub>=173.71 M<sub>z</sub>=77.24 M<sub>x</sub>=52.37  
 Tensioni:  $\sigma_N=98.24$   $\sigma_M=308.78$   $\tau=60.72$   $\sigma_{max}=407.03$   
 Tensioni:  $\sigma_N=98.24$   $\sigma_M=-136.82$   $\tau=106.29$   $\tau_{max}=106.29$   
 Tensioni:  $\sigma_N=98.24$   $\sigma_M=308.78$   $\tau=60.72$   $\sigma_{ID,max}=420.39$

Asta n. 3867 (-8365 -9160) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-37.21 My,Ed=-126.77 Mz,Ed=156.95  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=1.20$  Ncr,y=273088000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr,z=143663000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}$ =0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.05+0.09=0.14  
 Verifica ZZ: 0.00+0.04+0.09=0.13

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=2982.96 T<sub>z</sub>=-883.57 M<sub>y</sub>=-168.81 T<sub>y</sub>=346.02 M<sub>z</sub>=188.06 M<sub>x</sub>=94.49  
 Tensioni:  $\sigma_N=157.00$   $\sigma_M=650.40$   $\tau=109.56$   $\sigma_{max}=807.39$   
 Tensioni:  $\sigma_N=157.00$   $\sigma_M=-333.13$   $\tau=199.27$   $\tau_{max}=199.27$   
 Tensioni:  $\sigma_N=157.00$   $\sigma_M=650.40$   $\tau=109.56$   $\sigma_{ID,max}=829.39$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1739.27 T<sub>z</sub>=-474.63 M<sub>y</sub>=-70.88 T<sub>y</sub>=184.98 M<sub>z</sub>=89.17 M<sub>x</sub>=52.33  
 Tensioni:  $\sigma_N=91.54$   $\sigma_M=293.75$   $\tau=60.67$   $\sigma_{max}=385.30$   
 Tensioni:  $\sigma_N=91.54$   $\sigma_M=-157.96$   $\tau=108.86$   $\tau_{max}=108.86$

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Tensioni:  $\sigma_N=91.54$   $\sigma_M=293.75$   $\tau=60.67$   $\sigma_{ID,max}=399.37$

Asta n. 3867 (-9160 -11069) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-244.50 My,Ed=-82.43 Mz,Ed=182.45  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.09  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.04$  Ncr,y=94278400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.82$  Ncr,z=49597100.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.00+0.03+0.10=0.14  
Verifica ZZ: 0.00+0.02+0.10=0.13

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.09 - Classe 3  
Sollecitazioni: N=2698.98 Tz=-388.44 My=-86.49 Ty=339.67 Mz=243.32 Mx=69.21  
Tensioni:  $\sigma_N=142.05$   $\sigma_M=630.76$   $\tau=80.25$   $\sigma_{max}=772.81$   
Tensioni:  $\sigma_N=142.05$   $\sigma_M=126.66$   $\tau=129.49$   $\tau_{max}=129.49$   
Tensioni:  $\sigma_N=142.05$   $\sigma_M=630.76$   $\tau=80.25$   $\sigma_{ID,max}=785.21$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.09 - Classe 3  
Sollecitazioni: N=1560.00 Tz=-277.01 My=-38.82 Ty=183.31 Mz=118.14 Mx=52.03  
Tensioni:  $\sigma_N=82.11$   $\sigma_M=301.18$   $\tau=60.32$   $\sigma_{max}=383.29$   
Tensioni:  $\sigma_N=82.11$   $\sigma_M=-209.27$   $\tau=88.46$   $\tau_{max}=88.46$   
Tensioni:  $\sigma_N=82.11$   $\sigma_M=301.18$   $\tau=60.32$   $\sigma_{ID,max}=397.27$

Asta n. 3868 (-11071 -11740) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1713.03 My,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.09+0.01=0.09  
Verifica ZZ: 0.09=0.09

- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,g}=0.00$  (L/32528)

- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1713.03 Tz=7.07 Mx=-6.72  
N,Ed=-1713.03 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.09

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1467.65 Tz=-7.07 Mx=-6.77  
V,Ed=-7.07 Vc,Rd,Red=5668.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-616.43 My=-1.95 Mx=-3.05  
Tensioni:  $\sigma_N=-68.80$   $\sigma_M=-12.42$   $\tau=12.15$   $\sigma_{max}=-81.22$   
Tensioni:  $\sigma_N=-68.80$   $\sigma_M=12.42$   $\tau=12.15$   $\tau_{max}=12.15$   
Tensioni:  $\sigma_N=-68.80$   $\sigma_M=-12.42$   $\tau=12.15$   $\sigma_{ID,max}=83.90$

Asta n. 3869 (-11075 -11772) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1704.06 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,g}=0.00$  (L/31570)

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- Verifica a compressione [4.2.9] - CC 45 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=-1704.06$   $T_z=7.08$   $M_x=6.74$   
 $N,Ed=-1704.06$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.08$
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_l=1.49$   
Sollecitazioni:  $N=-1462.67$   $T_z=-7.08$   $M_x=6.83$   
 $V,Ed=-7.08$   $V_c,Rd,Red=5667.09$   $V,Ed/V_c,Rd,Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.74$  - Classe 3  
Sollecitazioni:  $N=-611.58$   $M_y=-1.95$   $M_x=2.73$   
Tensioni:  $\sigma_N=-68.26$   $\sigma_M=-12.45$   $\tau=10.88$   $\sigma_{max}=-80.70$   
Tensioni:  $\sigma_N=-68.26$   $\sigma_M=12.45$   $\tau=10.88$   $\tau_{max}=10.88$   
Tensioni:  $\sigma_N=-68.26$   $\sigma_M=-12.45$   $\tau=10.88$   $\sigma_{ID,max}=82.87$
  
- Asta n. 3873 (-2489 -2599) Tubo 60x80x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3321)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2857)
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=3863.76$   $T_z=363.84$   $M_y=-41.98$   $T_y=374.71$   $M_z=-149.77$   $M_x=60.59$   
Tensioni:  $\sigma_N=297.21$   $\sigma_M=780.60$   $\tau=146.88$   $\sigma_{max}=1077.81$   
Tensioni:  $\sigma_N=297.21$   $\sigma_M=129.94$   $\tau=221.42$   $\tau_{max}=221.42$   
Tensioni:  $\sigma_N=297.21$   $\sigma_M=780.60$   $\tau=146.88$   $\sigma_{ID,max}=1107.43$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.00$   
Sollecitazioni:  $N=1723.55$   $T_z=223.54$   $T_y=125.05$   $M_z=-49.62$   $M_x=-4.30$   
 $V,Ed=125.05$   $V_c,Rd,Red=10817.70$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=223.54$   $V_c,Rd,Red=14423.60$   $V,Ed/V_c,Rd,Red=0.02$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2420.36$   $T_z=224.53$   $M_y=-38.52$   $T_y=163.80$   $M_z=-64.23$   $M_x=33.49$   
Tensioni:  $\sigma_N=186.18$   $\sigma_M=407.35$   $\tau=81.19$   $\sigma_{max}=593.53$   
Tensioni:  $\sigma_N=186.18$   $\sigma_M=-225.90$   $\tau=115.74$   $\tau_{max}=115.74$   
Tensioni:  $\sigma_N=186.18$   $\sigma_M=407.35$   $\tau=81.19$   $\sigma_{ID,max}=609.96$
  
- Asta n. 3873 (-2599 -3005) Tubo 60x100x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3384)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2964)
  
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=4176.33$   $T_z=451.45$   $M_y=-109.57$   $T_y=371.36$   $M_z=-80.80$   $M_x=43.67$   
Tensioni:  $\sigma_N=278.42$   $\sigma_M=560.19$   $\tau=83.58$   $\sigma_{max}=838.61$   
Tensioni:  $\sigma_N=278.42$   $\sigma_M=251.24$   $\tau=156.33$   $\tau_{max}=156.33$   
Tensioni:  $\sigma_N=278.42$   $\sigma_M=560.19$   $\tau=83.58$   $\sigma_{ID,max}=851.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2422.07$   $T_z=224.06$   $M_y=-51.98$   $T_y=164.06$   $M_z=-34.66$   $M_x=33.49$   
Tensioni:  $\sigma_N=161.47$   $\sigma_M=253.00$   $\tau=64.09$   $\sigma_{max}=414.47$   
Tensioni:  $\sigma_N=161.47$   $\sigma_M=119.19$   $\tau=96.23$   $\tau_{max}=96.23$   
Tensioni:  $\sigma_N=161.47$   $\sigma_M=253.00$   $\tau=64.09$   $\sigma_{ID,max}=429.08$
  
- Asta n. 3873 (-3005 -4784) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.24$  - Classe 3  
Sollecitazioni:  $N=4183.16$   $T_z=447.80$   $M_y=-300.95$   $T_y=373.21$   $M_z=77.80$   $M_x=43.60$   
Tensioni:  $\sigma_N=220.17$   $\sigma_M=638.28$   $\tau=50.55$   $\sigma_{max}=858.45$   
Tensioni:  $\sigma_N=220.17$   $\sigma_M=440.71$   $\tau=104.67$   $\tau_{max}=104.67$   
Tensioni:  $\sigma_N=220.17$   $\sigma_M=638.28$   $\tau=50.55$   $\sigma_{ID,max}=862.90$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X_l=0.02$

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Sollecitazioni:  $N=1927.63$   $T_z=221.70$   $M_y=-89.39$   $T_y=153.23$   $M_x=12.23$   
 $V, Ed=153.23$   $V_c, Rd, Red=14727.80$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=221.70$   $V_c, Rd, Red=22091.70$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.24$  - Classe 3  
Sollecitazioni:  $N=2427.28$   $T_z=221.94$   $M_y=-124.39$   $T_y=165.00$   $M_z=35.46$   $M_x=33.46$   
Tensioni:  $\sigma_N=127.75$   $\sigma_M=270.50$   $\tau=38.80$   $\sigma_{max}=398.25$   
Tensioni:  $\sigma_N=127.75$   $\sigma_M=182.15$   $\tau=62.73$   $\tau_{max}=62.73$   
Tensioni:  $\sigma_N=127.75$   $\sigma_M=270.50$   $\tau=38.80$   $\sigma_{ID, max}=403.88$

Asta n. 3873 (-4784 -5483) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=3907.84$   $T_z=-1153.97$   $M_y=-288.42$   $T_y=302.64$   $M_z=83.82$   $M_x=39.60$   
Tensioni:  $\sigma_N=205.68$   $\sigma_M=630.44$   $\tau=45.92$   $\sigma_{max}=836.12$   
Tensioni:  $\sigma_N=205.68$   $\sigma_M=-148.48$   $\tau=163.08$   $\tau_{max}=163.08$   
Tensioni:  $\sigma_N=205.68$   $\sigma_M=630.44$   $\tau=45.92$   $\sigma_{ID, max}=839.89$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1924.22$   $T_z=-522.90$   $M_y=-127.65$   $T_y=130.63$   $M_z=36.99$   $M_x=26.35$   
Tensioni:  $\sigma_N=101.28$   $\sigma_M=278.81$   $\tau=30.55$   $\sigma_{max}=380.08$   
Tensioni:  $\sigma_N=101.28$   $\sigma_M=-65.52$   $\tau=83.64$   $\tau_{max}=83.64$   
Tensioni:  $\sigma_N=101.28$   $\sigma_M=278.81$   $\tau=30.55$   $\sigma_{ID, max}=383.75$

Asta n. 3873 (-5483 -6207) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-680.01$   $M_y, Ed=-165.63$   $M_z, Ed=66.46$   
Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr, y}=273092000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr, z}=143666000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.06+0.04=0.11$   
Verifica ZZ:  $0.01+0.05+0.04=0.10$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=3844.20$   $T_z=-718.58$   $M_y=-226.65$   $T_y=307.30$   $M_z=101.22$   $M_x=39.76$   
Tensioni:  $\sigma_N=202.33$   $\sigma_M=566.99$   $\tau=46.10$   $\sigma_{max}=769.32$   
Tensioni:  $\sigma_N=202.33$   $\sigma_M=-179.30$   $\tau=119.08$   $\tau_{max}=119.08$   
Tensioni:  $\sigma_N=202.33$   $\sigma_M=566.99$   $\tau=46.10$   $\sigma_{ID, max}=773.45$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2078.46$   $T_z=-309.47$   $M_y=-96.20$   $T_y=139.13$   $M_z=45.31$   $M_x=31.08$   
Tensioni:  $\sigma_N=109.39$   $\sigma_M=245.41$   $\tau=36.04$   $\sigma_{max}=354.80$   
Tensioni:  $\sigma_N=109.39$   $\sigma_M=-80.26$   $\tau=67.47$   $\tau_{max}=67.47$   
Tensioni:  $\sigma_N=109.39$   $\sigma_M=245.41$   $\tau=36.04$   $\sigma_{ID, max}=360.25$

Asta n. 3873 (-6207 -7012) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-1004.55$   $M_y, Ed=-111.85$   $M_z, Ed=76.49$   
Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr, y}=273083000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr, z}=143661000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.02+0.04+0.04=0.10$   
Verifica ZZ:  $0.02+0.03+0.04=0.09$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=3468.35$   $T_z=-621.50$   $M_y=-189.67$   $T_y=296.18$   $M_z=120.50$   $M_x=39.79$   
Tensioni:  $\sigma_N=182.54$   $\sigma_M=546.96$   $\tau=46.13$   $\sigma_{max}=729.51$   
Tensioni:  $\sigma_N=182.54$   $\sigma_M=-213.46$   $\tau=109.25$   $\tau_{max}=109.25$   
Tensioni:  $\sigma_N=182.54$   $\sigma_M=546.96$   $\tau=46.13$   $\sigma_{ID, max}=733.87$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

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Sollecitazioni:  $N=1858.14$   $T_z=-250.38$   $M_y=-84.15$   $T_y=133.59$   $M_z=54.02$   $M_x=31.03$

Tensioni:  $\sigma_N=97.80$   $\sigma_M=243.79$   $\tau=35.97$   $\sigma_{max}=341.59$

Tensioni:  $\sigma_N=97.80$   $\sigma_M=-95.69$   $\tau=61.40$   $\tau_{max}=61.40$

Tensioni:  $\sigma_N=97.80$   $\sigma_M=243.79$   $\tau=35.97$   $\sigma_{ID,max}=347.23$

Asta n. 3873 (-7012 -7717) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-1372.10$   $M_y, Ed=-72.74$   $M_z, Ed=86.32$

Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=5.34$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=1.20$   $N_{cr,y}=273098000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=1.66$   $N_{cr,z}=143669000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.02+0.03+0.05=0.10$

Verifica ZZ:  $0.02+0.02+0.05=0.09$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=3424.21$   $T_z=-705.38$   $M_y=-155.06$   $T_y=286.24$   $M_z=139.20$   $M_x=39.80$

Tensioni:  $\sigma_N=180.22$   $\sigma_M=529.52$   $\tau=46.15$   $\sigma_{max}=709.75$

Tensioni:  $\sigma_N=180.22$   $\sigma_M=-246.58$   $\tau=117.78$   $\tau_{max}=117.78$

Tensioni:  $\sigma_N=180.22$   $\sigma_M=529.52$   $\tau=46.15$   $\sigma_{ID,max}=714.23$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=1788.23$   $T_z=-287.69$   $M_y=-72.77$   $T_y=128.82$   $M_z=62.44$   $M_x=31.02$

Tensioni:  $\sigma_N=94.12$   $\sigma_M=242.67$   $\tau=35.97$   $\sigma_{max}=336.79$

Tensioni:  $\sigma_N=94.12$   $\sigma_M=-110.61$   $\tau=65.19$   $\tau_{max}=65.19$

Tensioni:  $\sigma_N=94.12$   $\sigma_M=242.67$   $\tau=35.97$   $\sigma_{ID,max}=342.50$

Asta n. 3873 (-7717 -8509) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-1723.94$   $M_y, Ed=-37.80$   $M_z, Ed=96.25$

Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=5.34$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=1.20$   $N_{cr,y}=273093000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=1.66$   $N_{cr,z}=143666000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.03+0.01+0.05=0.10$

Verifica ZZ:  $0.03+0.01+0.05=0.09$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=3603.78$   $T_z=-609.55$   $M_y=-121.86$   $T_y=275.67$   $M_z=158.02$   $M_x=39.82$

Tensioni:  $\sigma_N=189.67$   $\sigma_M=514.58$   $\tau=46.17$   $\sigma_{max}=704.25$

Tensioni:  $\sigma_N=189.67$   $\sigma_M=-279.92$   $\tau=108.08$   $\tau_{max}=108.08$

Tensioni:  $\sigma_N=189.67$   $\sigma_M=514.58$   $\tau=46.17$   $\sigma_{ID,max}=708.77$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=1809.39$   $T_z=-260.76$   $M_y=-58.48$   $T_y=123.44$   $M_z=70.93$   $M_x=30.97$

Tensioni:  $\sigma_N=95.23$   $\sigma_M=237.00$   $\tau=35.91$   $\sigma_{max}=332.23$

Tensioni:  $\sigma_N=95.23$   $\sigma_M=-125.64$   $\tau=62.39$   $\tau_{max}=62.39$

Tensioni:  $\sigma_N=95.23$   $\sigma_M=237.00$   $\tau=35.91$   $\sigma_{ID,max}=338.00$

Asta n. 3873 (-8509 -9385) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-2320.12$   $M_y, Ed=-12.06$   $M_z, Ed=106.17$

Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=5.15$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=1.16$   $N_{cr,y}=293457000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=1.60$   $N_{cr,z}=154379000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.04+0.00+0.06=0.10$

Verifica ZZ:  $0.04+0.00+0.06=0.10$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=3397.82$   $T_z=-411.72$   $M_y=-91.04$   $T_y=259.76$   $M_z=174.65$   $M_x=40.63$

Tensioni:  $\sigma_N=178.83$   $\sigma_M=499.00$   $\tau=47.10$   $\sigma_{max}=677.84$

Tensioni:  $\sigma_N=178.83$   $\sigma_M=-309.38$   $\tau=88.93$   $\tau_{max}=88.93$

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Tensioni:  $\sigma_N=178.83$   $\sigma_M=499.00$   $\tau=47.10$   $\sigma_{ID,max}=682.73$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.04$   
Sollecitazioni:  $N=-2319.45$   $T_z=-317.87$   $T_y=167.27$   $M_z=103.82$   $M_x=35.30$   
 $V,Ed=167.27$   $V_c,Rd,Red=14524.50$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-317.87$   $V_c,Rd,Red=21786.80$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1708.19$   $T_z=-175.18$   $M_y=-45.88$   $T_y=114.99$   $M_z=78.33$   $M_x=30.94$   
Tensioni:  $\sigma_N=89.90$   $\sigma_M=231.89$   $\tau=35.87$   $\sigma_{max}=321.79$   
Tensioni:  $\sigma_N=89.90$   $\sigma_M=-138.76$   $\tau=53.66$   $\tau_{max}=53.66$   
Tensioni:  $\sigma_N=89.90$   $\sigma_M=231.89$   $\tau=35.87$   $\sigma_{ID,max}=327.73$

Asta n. 3873 (-9385 -11752) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2470.69$   $M_y,Ed=-31.68$   $M_z,Ed=124.52$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.47$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.13$   $N_{cr,y}=86822500.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.94$   $N_{cr,z}=45674800.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.04+0.01+0.07=0.12$   
Verifica ZZ:  $0.04+0.01+0.07=0.12$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/4618)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/4136)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.09$  - Classe 3  
Sollecitazioni:  $N=3072.81$   $T_z=-160.02$   $M_y=-52.22$   $T_y=294.57$   $M_z=221.95$   $M_x=39.88$   
Tensioni:  $\sigma_N=161.73$   $\sigma_M=532.76$   $\tau=46.23$   $\sigma_{max}=694.49$   
Tensioni:  $\sigma_N=161.73$   $\sigma_M=76.48$   $\tau=88.92$   $\tau_{max}=88.92$   
Tensioni:  $\sigma_N=161.73$   $\sigma_M=532.76$   $\tau=46.23$   $\sigma_{ID,max}=699.09$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.09$  - Classe 3  
Sollecitazioni:  $N=1534.33$   $T_z=-90.78$   $M_y=-33.17$   $T_y=132.01$   $M_z=99.50$   $M_x=30.74$   
Tensioni:  $\sigma_N=80.75$   $\sigma_M=254.43$   $\tau=35.65$   $\sigma_{max}=335.18$   
Tensioni:  $\sigma_N=80.75$   $\sigma_M=48.58$   $\tau=54.78$   $\tau_{max}=54.78$   
Tensioni:  $\sigma_N=80.75$   $\sigma_M=254.43$   $\tau=35.65$   $\sigma_{ID,max}=340.82$

Asta n. 3874 (-2524 -12532) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-8160.90$   $M,Ed=6.39$   
Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=220.33$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, ----, ----$   
 $\lambda=72.39$   $N_{cr}=42747.30$   $\lambda^*=0.95$   
Curva a:  $\Phi=1.03$   $\chi_{min}=0.70$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.18, ----, ----, ----$   
Verifica:  $0.32+0.01=0.33$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10291)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9687)  $f_{z,l}=0.01$  (L/19414)
- Verifica a compressione [4.2.9] - CC 54 SLU  $X_l=0.00$  - Classe 1  
Sollecitazioni:  $N=-8160.90$   $T=11.61$   $M_x=12.40$   
 $N,Ed=-8160.90$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.22$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-7447.45$   $T=11.61$   $M_x=13.48$   
 $V,Ed=11.61$   $V_c,Rd,Red=13221.70$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=1.10$  - Classe 3  
 Sollecitazioni:  $N=-5028.46$   $M=4.74$   $M_x=8.91$   
 Tensioni:  $\sigma_N=-465.29$   $\sigma_M=-21.28$   $\tau=20.03$   $\sigma_{max}=-486.58$   
 Tensioni:  $\sigma_N=-465.29$   $\sigma_M=18.43$   $\tau=20.03$   $\tau_{max}=20.03$   
 Tensioni:  $\sigma_N=-465.29$   $\sigma_M=-21.28$   $\tau=20.03$   $\sigma_{ID,max}=487.81$

Asta n. 3875 (-2523 -12529) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-8334.41$   $M,Ed=6.38$   
 Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=220.33$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=72.39$   $N_{cr}=42748.00$   $\lambda^*=0.95$   
 Curva a:  $\Phi=1.03$   $\chi_{min}=0.70$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.18, \text{----}, \text{----}, \text{----}$   
 Verifica:  $0.32+0.01=0.33$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10283)

- Verifica Freccia massima carichi totali - CC 77  
 $f_{z,g}=0.02$  (L/9540)  $f_{z,L}=0.01$  (L/19239)

- Verifica a compressione [4.2.9] - CC 75 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-8334.41$   $T=11.60$   $M_x=-14.18$   
 $N,Ed=-8334.41$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.23$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-6395.01$   $T=11.60$   $M_x=-32.51$   
 $V,Ed=11.60$   $V_c,Rd,Red=12927.40$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=1.10$  - Classe 3  
 Sollecitazioni:  $N=-5140.92$   $M=4.73$   $M_x=-12.89$   
 Tensioni:  $\sigma_N=-475.70$   $\sigma_M=-21.25$   $\tau=28.96$   $\sigma_{max}=-496.95$   
 Tensioni:  $\sigma_N=-475.70$   $\sigma_M=20.93$   $\tau=28.96$   $\tau_{max}=28.96$   
 Tensioni:  $\sigma_N=-475.70$   $\sigma_M=-21.25$   $\tau=28.96$   $\sigma_{ID,max}=499.48$

Asta n. 3876 (-11758 -12543) Tubo  $60 \times 60 \times 4$  mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1575.78$   $M_y,Ed=-2.64$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $N_{cr,y}=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $N_{cr,z}=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.60, 0.00, 0.99$   
 Verifica YY:  $0.08+0.01=0.08$   
 Verifica ZZ:  $0.08=0.08$

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.00$  (L/32556)

- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-1575.78$   $T_z=7.08$   $M_x=10.41$   
 $N,Ed=-1575.78$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.08$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-1465.78$   $T_z=7.08$   $M_x=11.09$   
 $V,Ed=7.08$   $V_c,Rd,Red=5591.00$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.75$  - Classe 3  
 Sollecitazioni:  $N=-727.67$   $M_y=-1.95$   $M_x=4.57$   
 Tensioni:  $\sigma_N=-81.21$   $\sigma_M=-12.45$   $\tau=18.23$   $\sigma_{max}=-93.66$   
 Tensioni:  $\sigma_N=-81.21$   $\sigma_M=12.45$   $\tau=18.23$   $\tau_{max}=18.23$   
 Tensioni:  $\sigma_N=-81.21$   $\sigma_M=-12.45$   $\tau=18.23$   $\sigma_{ID,max}=98.84$

Asta n. 3877 (-11754 -12508) Tubo  $60 \times 60 \times 4$  mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1574.24$   $M_y,Ed=-2.63$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$

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$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda_y^*=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda_z^*=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.60, 0.00, 0.99  
Verifica YY:  $0.08+0.01=0.08$   
Verifica ZZ:  $0.08=0.08$

- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=0.00$  (L/32185)
- Verifica a compressione [4.2.9] - CC 45 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1574.24$   $T_z=7.07$   $M_x=-10.21$   
 $N,Ed=-1574.24$   $Nc,Rd=-20053.30$   $N,Ed/Nc,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X1=0.00$   
Sollecitazioni:  $N=-1464.11$   $T_z=7.07$   $M_x=-10.86$   
 $V,Ed=7.07$   $Vc,Rd,Red=5595.18$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.75$  - Classe 3  
Sollecitazioni:  $N=-720.69$   $M_y=-1.95$   $M_x=-4.71$   
Tensioni:  $\sigma_N=-80.43$   $\sigma_M=-12.42$   $\tau=18.76$   $\sigma_{max}=-92.85$   
Tensioni:  $\sigma_N=-80.43$   $\sigma_M=12.42$   $\tau=18.77$   $\tau_{max}=18.77$   
Tensioni:  $\sigma_N=-80.43$   $\sigma_M=-12.42$   $\tau=18.77$   $\sigma_{ID,max}=98.38$

Asta n. 3878 (-2479 -2568) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3377)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3014)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=2647.33$   $T_z=219.21$   $M_y=-22.98$   $T_y=292.61$   $M_z=-126.06$   $M_x=30.07$   
Tensioni:  $\sigma_N=203.64$   $\sigma_M=613.29$   $\tau=72.90$   $\sigma_{max}=816.93$   
Tensioni:  $\sigma_N=203.64$   $\sigma_M=71.11$   $\tau=131.10$   $\tau_{max}=131.10$   
Tensioni:  $\sigma_N=203.64$   $\sigma_M=613.29$   $\tau=72.90$   $\sigma_{ID,max}=826.63$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1659.60$   $T_z=153.92$   $M_y=-24.48$   $T_y=137.61$   $M_z=-59.96$   $M_x=15.87$   
Tensioni:  $\sigma_N=127.66$   $\sigma_M=339.67$   $\tau=38.47$   $\sigma_{max}=467.33$   
Tensioni:  $\sigma_N=127.66$   $\sigma_M=75.78$   $\tau=65.87$   $\tau_{max}=65.87$   
Tensioni:  $\sigma_N=127.66$   $\sigma_M=339.67$   $\tau=38.47$   $\sigma_{ID,max}=472.06$

Asta n. 3878 (-2568 -3010) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3402)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3064)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=2850.84$   $T_z=305.06$   $M_y=-84.73$   $T_y=294.14$   $M_z=-62.21$   $M_x=19.68$   
Tensioni:  $\sigma_N=190.06$   $\sigma_M=432.26$   $\tau=37.66$   $\sigma_{max}=622.32$   
Tensioni:  $\sigma_N=190.06$   $\sigma_M=194.29$   $\tau=95.28$   $\tau_{max}=95.28$   
Tensioni:  $\sigma_N=190.06$   $\sigma_M=432.26$   $\tau=37.66$   $\sigma_{ID,max}=625.73$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X1=0.22$   
Sollecitazioni:  $N=1313.40$   $T_z=159.33$   $M_y=-73.79$   $T_y=122.60$   $M_x=5.51$   
 $V,Ed=122.60$   $Vc,Rd,Red=10921.00$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=159.33$   $Vc,Rd,Red=18201.60$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1661.76$   $T_z=153.61$   $M_y=-35.74$   $T_y=137.47$   $M_z=-29.60$   $M_x=15.87$   
Tensioni:  $\sigma_N=110.78$   $\sigma_M=194.02$   $\tau=30.37$   $\sigma_{max}=304.80$   
Tensioni:  $\sigma_N=110.78$   $\sigma_M=81.95$   $\tau=57.30$   $\tau_{max}=57.30$   
Tensioni:  $\sigma_N=110.78$   $\sigma_M=194.02$   $\tau=30.37$   $\sigma_{ID,max}=309.31$



Asta n. 3878 (-3010 -4971) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.25$  - Classe 3  
 Sollecitazioni:  $N=2858.36$   $T_z=301.00$   $M_y=-227.23$   $T_y=295.61$   $M_z=76.55$   $M_x=19.61$   
 Tensioni:  $\sigma_N=150.44$   $\sigma_M=517.98$   $\tau=22.74$   $\sigma_{max}=668.42$   
 Tensioni:  $\sigma_N=150.44$   $\sigma_M=332.76$   $\tau=65.61$   $\tau_{max}=65.61$   
 Tensioni:  $\sigma_N=150.44$   $\sigma_M=517.98$   $\tau=22.74$   $\sigma_{ID,max}=669.58$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X1=0.00$   
 Sollecitazioni:  $N=1313.35$   $T_z=159.22$   $M_y=-73.79$   $T_y=123.30$   $M_z=5.48$   
 $V,Ed=123.30$   $Vc,Rd,Red=14787.30$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=159.22$   $Vc,Rd,Red=22181.00$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.25$  - Classe 3  
 Sollecitazioni:  $N=1667.55$   $T_z=151.49$   $M_y=-99.28$   $T_y=138.21$   $M_z=35.26$   $M_x=15.86$   
 Tensioni:  $\sigma_N=87.77$   $\sigma_M=229.99$   $\tau=18.38$   $\sigma_{max}=317.75$   
 Tensioni:  $\sigma_N=87.77$   $\sigma_M=145.39$   $\tau=38.42$   $\tau_{max}=38.42$   
 Tensioni:  $\sigma_N=87.77$   $\sigma_M=229.99$   $\tau=18.38$   $\sigma_{ID,max}=319.35$

Asta n. 3878 (-4971 -7990) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1247.68$   $M_y,Ed=-188.01$   $M_z,Ed=78.25$   
 Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=21.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$   $Ncr,y=17068200.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$   $Ncr,z=8979060.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.07+0.04=0.13$   
 Verifica ZZ:  $0.02+0.06+0.04=0.12$
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=2676.22$   $T_z=-633.90$   $M_y=-201.84$   $T_y=210.06$   $M_z=86.16$   $M_x=17.54$   
 Tensioni:  $\sigma_N=140.85$   $\sigma_M=496.87$   $\tau=20.34$   $\sigma_{max}=637.73$   
 Tensioni:  $\sigma_N=140.85$   $\sigma_M=-152.63$   $\tau=84.71$   $\tau_{max}=84.71$   
 Tensioni:  $\sigma_N=140.85$   $\sigma_M=496.87$   $\tau=20.34$   $\sigma_{ID,max}=638.70$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 95 SLU  $X1=0.19$   
 Sollecitazioni:  $N=935.67$   $T_z=-125.45$   $T_y=82.49$   $M_z=52.35$   $M_x=20.91$   
 $V,Ed=82.49$   $Vc,Rd,Red=14651.30$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-125.45$   $Vc,Rd,Red=21977.00$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=1385.55$   $T_z=-255.29$   $M_y=-87.83$   $T_y=98.86$   $M_z=39.56$   $M_x=14.45$   
 Tensioni:  $\sigma_N=72.92$   $\sigma_M=220.40$   $\tau=16.76$   $\sigma_{max}=293.32$   
 Tensioni:  $\sigma_N=72.92$   $\sigma_M=-70.07$   $\tau=42.68$   $\tau_{max}=42.68$   
 Tensioni:  $\sigma_N=72.92$   $\sigma_M=220.40$   $\tau=16.76$   $\sigma_{ID,max}=294.75$

Asta n. 3878 (-7990 -8788) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1780.13$   $M_y,Ed=17.94$   $M_z,Ed=90.56$   
 Resistenze:  $Nc,Rd=64238.10$   $My,c,Rd=2116.38$   $Mz,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $Ncr,y=273094000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $Ncr,z=143667000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.01+0.05=0.09$   
 Verifica ZZ:  $0.03+0.01+0.05=0.08$
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=2942.08$   $T_z=-429.38$   $M_y=-76.14$   $T_y=214.11$   $M_z=140.52$   $M_x=17.17$   
 Tensioni:  $\sigma_N=154.85$   $\sigma_M=406.11$   $\tau=19.91$   $\sigma_{max}=560.96$   
 Tensioni:  $\sigma_N=154.85$   $\sigma_M=-248.92$   $\tau=63.52$   $\tau_{max}=63.52$   
 Tensioni:  $\sigma_N=154.85$   $\sigma_M=406.11$   $\tau=19.91$   $\sigma_{ID,max}=562.02$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.02$   
Sollecitazioni:  $N=-1779.78$   $T_z=-541.54$   $T_y=125.93$   $M_z=86.28$   $M_x=14.09$   
 $V,Ed=125.93$   $V_c,Rd,Red=14711.40$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-541.54$   $V_c,Rd,Red=22067.10$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1396.36$   $T_z=-187.79$   $M_y=-39.77$   $T_y=101.55$   $M_z=65.11$   $M_x=14.15$   
Tensioni:  $\sigma_N=73.49$   $\sigma_M=195.34$   $\tau=16.41$   $\sigma_{max}=268.84$   
Tensioni:  $\sigma_N=73.49$   $\sigma_M=-115.33$   $\tau=35.49$   $\tau_{max}=35.49$   
Tensioni:  $\sigma_N=73.49$   $\sigma_M=195.34$   $\tau=16.41$   $\sigma_{ID,max}=270.33$

Asta n. 3878 (-8788 -9571) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2135.07$   $M_y,Ed=30.06$   $M_z,Ed=99.30$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr,y}=273088000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr,z}=143663000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.01+0.06=0.10$   
Verifica ZZ:  $0.03+0.01+0.06=0.10$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.05$  - Classe 3  
Sollecitazioni:  $N=2915.28$   $T_z=-269.15$   $M_y=-39.08$   $T_y=223.47$   $M_z=166.78$   $M_x=17.40$   
Tensioni:  $\sigma_N=153.44$   $\sigma_M=400.07$   $\tau=20.18$   $\sigma_{max}=553.51$   
Tensioni:  $\sigma_N=153.44$   $\sigma_M=57.22$   $\tau=52.59$   $\tau_{max}=52.59$   
Tensioni:  $\sigma_N=153.44$   $\sigma_M=400.07$   $\tau=20.18$   $\sigma_{ID,max}=554.61$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.05$   
Sollecitazioni:  $N=135.69$   $T_z=-295.72$   $T_y=188.20$   $M_z=140.07$   $M_x=18.00$   
 $V,Ed=188.20$   $V_c,Rd,Red=14677.00$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-295.72$   $V_c,Rd,Red=22015.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.05$  - Classe 3  
Sollecitazioni:  $N=1354.23$   $T_z=-121.39$   $M_y=-26.52$   $T_y=105.89$   $M_z=77.54$   $M_x=14.18$   
Tensioni:  $\sigma_N=71.28$   $\sigma_M=199.33$   $\tau=16.44$   $\sigma_{max}=270.60$   
Tensioni:  $\sigma_N=71.28$   $\sigma_M=38.83$   $\tau=31.80$   $\tau_{max}=31.80$   
Tensioni:  $\sigma_N=71.28$   $\sigma_M=199.33$   $\tau=16.44$   $\sigma_{ID,max}=272.10$

Asta n. 3878 (-9571 -12547) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2183.36$   $M_y,Ed=31.07$   $M_z,Ed=113.64$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.13$   $N_{cr,y}=86577000.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.94$   $N_{cr,z}=45545600.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.01+0.06=0.11$   
Verifica ZZ:  $0.03+0.01+0.06=0.11$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.09$  - Classe 3  
Sollecitazioni:  $N=2762.73$   $T_z=-125.42$   $M_y=-28.82$   $T_y=221.69$   $M_z=191.18$   $M_x=17.26$   
Tensioni:  $\sigma_N=145.41$   $\sigma_M=433.09$   $\tau=20.01$   $\sigma_{max}=578.50$   
Tensioni:  $\sigma_N=145.41$   $\sigma_M=42.21$   $\tau=52.14$   $\tau_{max}=52.14$   
Tensioni:  $\sigma_N=145.41$   $\sigma_M=433.09$   $\tau=20.01$   $\sigma_{ID,max}=579.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-2182.43$   $T_z=591.46$   $T_y=129.53$   $M_z=108.06$   $M_x=14.04$   
 $V,Ed=129.53$   $V_c,Rd,Red=14711.90$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=591.46$   $V_c,Rd,Red=22067.80$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=1256.88$   $T_z=-84.28$   $M_y=-26.49$   $T_y=105.73$   $M_z=89.06$   $M_x=14.01$   
 Tensioni:  $\sigma_N=66.15$   $\sigma_M=222.61$   $\tau=16.24$   $\sigma_{max}=288.76$   
 Tensioni:  $\sigma_N=66.15$   $\sigma_M=38.79$   $\tau=31.57$   $\tau_{max}=31.57$   
 Tensioni:  $\sigma_N=66.15$   $\sigma_M=222.61$   $\tau=16.24$   $\sigma_{ID,max}=290.13$

Asta n. 3880 (-2490 -13264) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-7438.30$   $M,Ed=6.55$   
 Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=224.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=73.80$   $N_{cr}=41124.90$   $\lambda^*=0.97$   
 Curva a:  $\Phi=1.05$   $\chi, \text{min}=0.69$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
 Verifica:  $0.30+0.01=0.30$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10468)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9555)  $f_{z,L}=0.01$  (L/18510)

- Verifica a compressione [4.2.9] - CC 54 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=-7438.30$   $T=11.67$   $M_x=1.19$   
 $N,Ed=-7438.30$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.20$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4261.44$   $T=11.67$   $M_x=-10.15$   
 $V,Ed=11.67$   $V_c,Rd,Red=13273.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=1.12$  - Classe 3  
 Sollecitazioni:  $N=-4141.01$   $M=4.85$   $M_x=4.49$   
 Tensioni:  $\sigma_N=-383.18$   $\sigma_M=-21.82$   $\tau=10.09$   $\sigma_{max}=-404.99$   
 Tensioni:  $\sigma_N=-383.18$   $\sigma_M=-7.46$   $\tau=10.09$   $\tau_{max}=10.09$   
 Tensioni:  $\sigma_N=-383.18$   $\sigma_M=-21.82$   $\tau=10.09$   $\sigma_{ID,max}=405.37$

Asta n. 3881 (-2489 -13260) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-7564.98$   $M,Ed=6.54$   
 Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=224.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=73.80$   $N_{cr}=41125.40$   $\lambda^*=0.97$   
 Curva a:  $\Phi=1.05$   $\chi, \text{min}=0.69$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.17, \text{----}, \text{----}, \text{----}$   
 Verifica:  $0.30+0.01=0.31$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10437)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9490)  $f_{z,L}=0.01$  (L/18352)

- Verifica a compressione [4.2.9] - CC 75 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=-7564.98$   $T=11.66$   $M_x=-1.95$   
 $N,Ed=-7564.98$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.21$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_l=2.24$   
 Sollecitazioni:  $N=-5750.53$   $T=11.66$   $M_x=-11.70$   
 $V,Ed=11.66$   $V_c,Rd,Red=13249.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=1.12$  - Classe 3  
 Sollecitazioni:  $N=-4266.12$   $M=4.85$   $M_x=-2.83$   
 Tensioni:  $\sigma_N=-394.75$   $\sigma_M=-21.78$   $\tau=6.35$   $\sigma_{max}=-416.54$   
 Tensioni:  $\sigma_N=-394.75$   $\sigma_M=-20.47$   $\tau=6.35$   $\tau_{max}=6.35$   
 Tensioni:  $\sigma_N=-394.75$   $\sigma_M=-21.78$   $\tau=6.35$   $\sigma_{ID,max}=416.68$

Asta n. 3882 (-12529 -13246) Tubo  $60 \times 60 \times 4$  mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1

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Sollecitazioni: N,Ed=-1508.62 My,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79 \chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79 \chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.08+0.01=0.08  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L}=0.00$  (L/32192)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1508.62  $T_x=7.07$   $M_x=-11.80$   
N,Ed=-1508.62 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1427.02  $T_x=-7.07$   $M_x=-12.70$   
V,Ed=-7.07 Vc,Rd,Red=5562.28 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-784.06  $M_y=-1.95$   $M_x=-5.89$   
Tensioni:  $\sigma_N=-87.51$   $\sigma_M=-12.42$   $\tau=23.46$   $\sigma_{max}=-99.93$   
Tensioni:  $\sigma_N=-87.51$   $\sigma_M=12.42$   $\tau=23.46$   $\tau_{max}=23.46$   
Tensioni:  $\sigma_N=-87.51$   $\sigma_M=-12.42$   $\tau=23.46$   $\sigma_{TD,max}=107.88$

Asta n. 3883 (-12532 -13278) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1504.97 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79 \chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79 \chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.08+0.01=0.08  
Verifica ZZ: 0.08=0.08
- Verifica Freccia massima carichi totali - CC 90  
 $f_{z,L}=0.00$  (L/31570)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1504.97  $T_x=7.08$   $M_x=11.88$   
N,Ed=-1504.97 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1423.27  $T_x=-7.08$   $M_x=12.82$   
V,Ed=-7.08 Vc,Rd,Red=5560.09 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.74 - Classe 3  
Sollecitazioni: N=-798.65  $M_y=-1.95$   $M_x=5.62$   
Tensioni:  $\sigma_N=-89.14$   $\sigma_M=-12.45$   $\tau=22.41$   $\sigma_{max}=-101.58$   
Tensioni:  $\sigma_N=-89.14$   $\sigma_M=12.45$   $\tau=22.41$   $\tau_{max}=22.41$   
Tensioni:  $\sigma_N=-89.14$   $\sigma_M=-12.45$   $\tau=22.41$   $\sigma_{TD,max}=108.74$

Asta n. 3884 (-2480 -13872) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni: N,Ed=-5305.89 M,Ed=4.74  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=220.67  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=94.39$  Ncr=19292.30  $\lambda^*=1.24$   
Curva a:  $\Phi=1.37 \chi_{min}=0.51$   
Kyy, Kyz, Kzy, Kzz=1.23, ----, ----, ----  
Verifica: 0.37+0.01=0.38
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9581)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.03$  (L/7700)  $f_{z,L}=0.02$  (L/11775)

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- Verifica a compressione [4.2.9] - CC 54 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-5305.89$   $T=8.60$   $M_x=-2.17$   
 $N,Ed=-5305.89$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.19$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU  $X1=0.00$   
Sollecitazioni:  $N=-3236.98$   $T=8.60$   $M_x=-4.39$   
 $V,Ed=8.60$   $V_c,Rd,Red=10217.30$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=1.10$  - Classe 3  
Sollecitazioni:  $N=-2846.87$   $M=3.51$   $M_x=-2.89$   
Tensioni:  $\sigma_N=-343.25$   $\sigma_M=-27.13$   $\tau=11.15$   $\sigma_{max}=-370.38$   
Tensioni:  $\sigma_N=-343.25$   $\sigma_M=-25.49$   $\tau=11.15$   $\tau_{max}=11.15$   
Tensioni:  $\sigma_N=-343.25$   $\sigma_M=-27.13$   $\tau=11.15$   $\sigma_{ID,max}=370.88$
- Asta n. 3885 (-2479 -13868) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-5423.51$   $M,Ed=4.73$   
Resistenze:  $N_c,Rd=28041.00$   $M,c,Rd=575.38$   $L=220.67$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=94.39$   $N_{cr}=19292.30$   $\lambda^*=1.24$   
Curva a:  $\Phi=1.37$   $\chi, \min=0.51$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.24, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.38+0.01=0.39$
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9593)
  - Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.03$  (L/7693)  $f_{z,L}=0.02$  (L/11825)
  - Verifica a compressione [4.2.9] - CC 75 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-5423.51$   $T=8.59$   $M_x=2.16$   
 $N,Ed=-5423.51$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.19$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU  $X1=0.00$   
Sollecitazioni:  $N=-4376.91$   $T=8.59$   $M_x=3.77$   
 $V,Ed=8.59$   $V_c,Rd,Red=10230.00$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=1.10$  - Classe 3  
Sollecitazioni:  $N=-3023.00$   $M=3.51$   $M_x=2.76$   
Tensioni:  $\sigma_N=-364.49$   $\sigma_M=-27.08$   $\tau=10.65$   $\sigma_{max}=-391.57$   
Tensioni:  $\sigma_N=-364.49$   $\sigma_M=23.45$   $\tau=10.65$   $\tau_{max}=10.65$   
Tensioni:  $\sigma_N=-364.49$   $\sigma_M=-27.08$   $\tau=10.65$   $\sigma_{ID,max}=392.00$
- Asta n. 3888 (-2472 -2556) Tubo  $60 \times 80 \times 5$  mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3411)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3059)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=2375.90$   $T_z=148.77$   $M_y=-18.88$   $T_y=224.26$   $M_z=-104.82$   $M_x=17.53$   
Tensioni:  $\sigma_N=182.76$   $\sigma_M=509.17$   $\tau=42.49$   $\sigma_{max}=691.93$   
Tensioni:  $\sigma_N=182.76$   $\sigma_M=58.42$   $\tau=87.09$   $\tau_{max}=87.09$   
Tensioni:  $\sigma_N=182.76$   $\sigma_M=509.17$   $\tau=42.49$   $\sigma_{ID,max}=695.83$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X1=0.00$   
Sollecitazioni:  $N=1988.83$   $T_z=160.88$   $T_y=155.36$   $M_z=-72.96$   $M_x=6.26$   
 $V,Ed=155.36$   $V_c,Rd,Red=10791.20$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=160.88$   $V_c,Rd,Red=14388.20$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1541.52$   $T_z=120.47$   $M_y=-22.39$   $T_y=113.92$   $M_z=-53.52$   $M_x=10.53$   
Tensioni:  $\sigma_N=118.58$   $\sigma_M=305.07$   $\tau=25.53$   $\sigma_{max}=423.65$   
Tensioni:  $\sigma_N=118.58$   $\sigma_M=69.30$   $\tau=48.21$   $\tau_{max}=48.21$

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Tensioni:  $\sigma_N=118.58$   $\sigma_M=305.07$   $\tau=25.53$   $\sigma_{ID,max}=425.95$

Asta n. 3888 (-2556 -3026) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3437)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3114)
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.25$  - Classe 3  
Sollecitazioni:  $N=2565.82$   $T_z=233.72$   $M_y=-128.50$   $T_y=228.50$   $M_z=7.40$   $M_x=10.54$   
Tensioni:  $\sigma_N=171.06$   $\sigma_M=353.11$   $\tau=20.18$   $\sigma_{max}=524.16$   
Tensioni:  $\sigma_N=171.06$   $\sigma_M=294.64$   $\tau=64.95$   $\tau_{max}=64.95$   
Tensioni:  $\sigma_N=171.06$   $\sigma_M=348.82$   $\tau=56.61$   $\sigma_{ID,max}=529.04$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 29 SLU  $X1=0.23$   
Sollecitazioni:  $N=1115.45$   $T_z=79.37$   $M_y=-44.71$   $T_y=100.04$   $M_z=5.36$   
 $V,Ed=100.04$   $Vc,Rd,Red=10922.50$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=79.37$   $Vc,Rd,Red=18204.20$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1543.99$   $T_z=120.32$   $M_y=-29.62$   $T_y=114.03$   $M_z=-25.35$   $M_x=10.53$   
Tensioni:  $\sigma_N=102.93$   $\sigma_M=163.64$   $\tau=20.15$   $\sigma_{max}=266.57$   
Tensioni:  $\sigma_N=102.93$   $\sigma_M=67.92$   $\tau=42.48$   $\tau_{max}=42.48$   
Tensioni:  $\sigma_N=102.93$   $\sigma_M=163.64$   $\tau=20.15$   $\sigma_{ID,max}=268.85$

Asta n. 3888 (-3026 -5217) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.26$  - Classe 3  
Sollecitazioni:  $N=2570.42$   $T_z=231.16$   $M_y=-189.22$   $T_y=230.10$   $M_z=67.67$   $M_x=10.48$   
Tensioni:  $\sigma_N=135.28$   $\sigma_M=439.26$   $\tau=12.15$   $\sigma_{max}=574.55$   
Tensioni:  $\sigma_N=135.28$   $\sigma_M=277.08$   $\tau=45.52$   $\tau_{max}=45.52$   
Tensioni:  $\sigma_N=135.28$   $\sigma_M=439.26$   $\tau=12.15$   $\sigma_{ID,max}=574.93$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.26$  - Classe 3  
Sollecitazioni:  $N=1550.39$   $T_z=118.26$   $M_y=-82.47$   $T_y=114.86$   $M_z=33.60$   $M_x=10.51$   
Tensioni:  $\sigma_N=81.60$   $\sigma_M=199.77$   $\tau=12.18$   $\sigma_{max}=281.37$   
Tensioni:  $\sigma_N=81.60$   $\sigma_M=120.77$   $\tau=28.84$   $\tau_{max}=28.84$   
Tensioni:  $\sigma_N=81.60$   $\sigma_M=199.77$   $\tau=12.18$   $\sigma_{ID,max}=282.16$

Asta n. 3888 (-5217 -6661) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-826.00$   $M_y,Ed=-160.45$   $M_z,Ed=54.98$   
Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68272600.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35916200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.06+0.03=0.10$   
Verifica ZZ:  $0.01+0.05+0.03=0.09$
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=2345.90$   $T_z=-721.95$   $M_y=-171.54$   $T_y=167.62$   $M_z=72.49$   $M_x=8.28$   
Tensioni:  $\sigma_N=123.47$   $\sigma_M=420.79$   $\tau=9.60$   $\sigma_{max}=544.26$   
Tensioni:  $\sigma_N=123.47$   $\sigma_M=-128.40$   $\tau=82.90$   $\tau_{max}=82.90$   
Tensioni:  $\sigma_N=123.47$   $\sigma_M=420.79$   $\tau=9.60$   $\sigma_{ID,max}=544.51$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 95 SLU  $X1=0.08$   
Sollecitazioni:  $N=838.50$   $T_z=-43.13$   $T_y=63.31$   $M_z=34.21$   $M_x=13.24$   
 $V,Ed=63.31$   $Vc,Rd,Red=14719.00$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-43.13$   $Vc,Rd,Red=22078.40$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1265.71$   $T_z=-293.88$   $M_y=-74.51$   $T_y=83.14$   $M_z=36.09$   $M_x=9.17$

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Tensioni:  $\sigma_N=66.62$   $\sigma_M=192.09$   $\tau=10.63$   $\sigma_{max}=258.71$   
Tensioni:  $\sigma_N=66.62$   $\sigma_M=-63.94$   $\tau=40.47$   $\tau_{max}=40.47$   
Tensioni:  $\sigma_N=66.62$   $\sigma_M=192.09$   $\tau=10.63$   $\sigma_{ID,max}=259.36$

Asta n. 3888 (-6661 -8242) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1912.82 My,Ed=-79.73 Mz,Ed=68.80  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68272700.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.03+0.04=0.10  
Verifica ZZ: 0.03+0.02+0.04=0.09

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2620.66 Tz=-408.30 My=-100.94 Ty=189.86 Mz=93.65 Mx=9.74  
Tensioni:  $\sigma_N=137.93$   $\sigma_M=350.85$   $\tau=11.29$   $\sigma_{max}=488.78$   
Tensioni:  $\sigma_N=137.93$   $\sigma_M=-165.90$   $\tau=52.77$   $\tau_{max}=52.77$   
Tensioni:  $\sigma_N=137.93$   $\sigma_M=350.85$   $\tau=11.29$   $\sigma_{ID,max}=489.17$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.09  
Sollecitazioni: N=1305.65 Tz=-198.47 Ty=98.63 Mz=58.66 Mx=15.21  
V,Ed=98.63 Vc,Rd,Red=14701.50 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-198.47 Vc,Rd,Red=22052.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1306.55 Tz=-185.87 My=-45.56 Ty=94.06 Mz=46.58 Mx=9.71  
Tensioni:  $\sigma_N=68.77$   $\sigma_M=167.09$   $\tau=11.25$   $\sigma_{max}=235.86$   
Tensioni:  $\sigma_N=68.77$   $\sigma_M=-82.52$   $\tau=30.13$   $\tau_{max}=30.13$   
Tensioni:  $\sigma_N=68.77$   $\sigma_M=167.09$   $\tau=11.25$   $\sigma_{ID,max}=236.66$

Asta n. 3888 (-8242 -9842) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1782.92 My,Ed=33.93 Mz,Ed=81.96  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.49  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.36$  Ncr,y=70699000.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$  Ncr,z=37192700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.01+0.05=0.09  
Verifica ZZ: 0.03+0.01+0.05=0.08

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/4401)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/4001)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2934.85 Tz=-236.65 My=-65.48 Ty=159.36 Mz=117.66 Mx=12.07  
Tensioni:  $\sigma_N=154.47$   $\sigma_M=342.81$   $\tau=14.00$   $\sigma_{max}=497.27$   
Tensioni:  $\sigma_N=154.47$   $\sigma_M=-208.43$   $\tau=38.05$   $\tau_{max}=38.05$   
Tensioni:  $\sigma_N=154.47$   $\sigma_M=342.81$   $\tau=14.00$   $\sigma_{ID,max}=497.86$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=-1782.92 Tz=-329.46 Ty=102.64 Mz=71.19 Mx=7.80  
V,Ed=102.64 Vc,Rd,Red=14766.80 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-329.46 Vc,Rd,Red=22150.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=1341.66 Tz=-107.94 My=-26.97 Ty=78.68 Mz=66.67 Mx=10.56  
Tensioni:  $\sigma_N=70.61$   $\sigma_M=178.06$   $\tau=12.24$   $\sigma_{max}=248.67$   
Tensioni:  $\sigma_N=70.61$   $\sigma_M=39.50$   $\tau=23.66$   $\tau_{max}=23.66$

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Tensioni:  $\sigma_N=70.61$   $\sigma_M=178.06$   $\tau=12.24$   $\sigma_{ID,max}=249.57$

Asta n. 3888 (-9842 -13258) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-2274.35 My,Ed=30.27 Mz,Ed=95.33

Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.88

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.22$  Ncr,y=79786800.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.06$  Ncr,z=41973500.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.04+0.01+0.05=0.10

Verifica ZZ: 0.04+0.01+0.05=0.10

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.00$  (L/4707)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.00$  (L/4227)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=2594.30 Tz=-212.28 My=-22.58 Ty=171.28 Mz=156.88 Mx=4.23

Tensioni:  $\sigma_N=136.54$   $\sigma_M=353.67$   $\tau=4.90$   $\sigma_{max}=490.21$

Tensioni:  $\sigma_N=136.54$   $\sigma_M=33.07$   $\tau=29.76$   $\tau_{max}=29.76$

Tensioni:  $\sigma_N=136.54$   $\sigma_M=353.67$   $\tau=4.90$   $\sigma_{ID,max}=490.28$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00

Sollecitazioni: N=-88.09 Tz=217.75 Ty=147.48 Mz=118.90 Mx=4.62

V,Ed=147.48 Vc,Rd,Red=14794.80 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=217.75 Vc,Rd,Red=22192.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=1161.99 Tz=-120.23 My=-24.97 Ty=85.62 Mz=77.97 Mx=7.37

Tensioni:  $\sigma_N=61.16$   $\sigma_M=197.74$   $\tau=8.55$   $\sigma_{max}=258.90$

Tensioni:  $\sigma_N=61.16$   $\sigma_M=36.57$   $\tau=20.97$   $\tau_{max}=20.97$

Tensioni:  $\sigma_N=61.16$   $\sigma_M=197.74$   $\tau=8.55$   $\sigma_{ID,max}=259.32$

Asta n. 3889 (-2473 -2557) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3411)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3086)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=2492.63 Tz=254.12 My=-8.20 Ty=-223.41 Mz=104.42 Mx=-6.91

Tensioni:  $\sigma_N=191.74$   $\sigma_M=469.68$   $\tau=16.74$   $\sigma_{max}=661.43$

Tensioni:  $\sigma_N=191.74$   $\sigma_M=25.37$   $\tau=61.28$   $\tau_{max}=61.28$

Tensioni:  $\sigma_N=191.74$   $\sigma_M=469.68$   $\tau=16.74$   $\sigma_{ID,max}=662.06$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00

Sollecitazioni: N=1995.78 Tz=164.62 Ty=-156.93 Mz=73.45 Mx=-6.77

V,Ed=-156.93 Vc,Rd,Red=10784.30 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=164.62 Vc,Rd,Red=14379.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=1428.25 Tz=119.64 My=-15.79 Ty=-108.23 Mz=50.70 Mx=-10.54

Tensioni:  $\sigma_N=109.87$   $\sigma_M=269.85$   $\tau=25.56$   $\sigma_{max}=379.72$

Tensioni:  $\sigma_N=109.87$   $\sigma_M=48.88$   $\tau=47.11$   $\tau_{max}=47.11$

Tensioni:  $\sigma_N=109.87$   $\sigma_M=269.85$   $\tau=25.56$   $\sigma_{ID,max}=382.29$

Asta n. 3889 (-2557 -3027) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3426)



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- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,c}=0.01$  (L/3087)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.25$  - Classe 3  
 Sollecitazioni:  $N=2499.26$   $T_z=250.88$   $M_y=-134.61$   $T_y=-223.75$   $M_z=-7.49$   $M_x=-6.90$   
 Tensioni:  $\sigma_N=166.62$   $\sigma_M=369.02$   $\tau=13.20$   $\sigma_{max}=535.64$   
 Tensioni:  $\sigma_N=166.62$   $\sigma_M=308.66$   $\tau=57.06$   $\tau_{max}=57.06$   
 Tensioni:  $\sigma_N=166.62$   $\sigma_M=364.68$   $\tau=48.87$   $\sigma_{ID,max}=537.99$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $Xl=0.23$   
 Sollecitazioni:  $N=1491.56$   $T_z=189.93$   $M_y=-84.67$   $T_y=-110.45$   $M_x=16.35$   
 $V,Ed=-110.45$   $Vc,Rd,Red=10804.30$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=189.93$   $Vc,Rd,Red=18007.10$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.25$  - Classe 3  
 Sollecitazioni:  $N=1433.43$   $T_z=118.22$   $M_y=-55.96$   $T_y=-108.32$   $M_z=-3.51$   $M_x=-10.54$   
 Tensioni:  $\sigma_N=95.56$   $\sigma_M=154.78$   $\tau=20.17$   $\sigma_{max}=250.35$   
 Tensioni:  $\sigma_N=95.56$   $\sigma_M=128.32$   $\tau=41.39$   $\tau_{max}=41.39$   
 Tensioni:  $\sigma_N=95.56$   $\sigma_M=152.75$   $\tau=37.44$   $\sigma_{ID,max}=256.64$

Asta n. 3889 (-3027 -5218) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.26$  - Classe 3  
 Sollecitazioni:  $N=2503.87$   $T_z=248.34$   $M_y=-199.82$   $T_y=-225.32$   $M_z=-66.52$   $M_x=-6.83$   
 Tensioni:  $\sigma_N=131.78$   $\sigma_M=453.88$   $\tau=7.91$   $\sigma_{max}=585.66$   
 Tensioni:  $\sigma_N=131.78$   $\sigma_M=292.61$   $\tau=40.60$   $\tau_{max}=40.60$   
 Tensioni:  $\sigma_N=131.78$   $\sigma_M=453.88$   $\tau=7.91$   $\sigma_{ID,max}=585.82$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $Xl=0.19$   
 Sollecitazioni:  $N=873.59$   $T_z=-19.65$   $T_y=-89.89$   $M_z=-20.43$   $M_x=-14.16$   
 $V,Ed=-89.89$   $Vc,Rd,Red=14710.80$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-19.65$   $Vc,Rd,Red=22066.20$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.26$  - Classe 3  
 Sollecitazioni:  $N=1437.18$   $T_z=117.51$   $M_y=-86.57$   $T_y=-109.07$   $M_z=-32.05$   $M_x=-10.52$   
 Tensioni:  $\sigma_N=75.64$   $\sigma_M=203.19$   $\tau=12.20$   $\sigma_{max}=278.83$   
 Tensioni:  $\sigma_N=75.64$   $\sigma_M=126.77$   $\tau=28.01$   $\tau_{max}=28.01$   
 Tensioni:  $\sigma_N=75.64$   $\sigma_M=203.19$   $\tau=12.20$   $\sigma_{ID,max}=279.63$

Asta n. 3889 (-5218 -6662) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-829.57$   $M_y,Ed=-157.76$   $M_z,Ed=-55.53$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $Ncr,y=68272800.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $Ncr,z=35916300.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.06+0.03=0.10$   
 Verifica ZZ:  $0.01+0.05+0.03=0.09$
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=2264.16$   $T_z=-773.58$   $M_y=-178.58$   $T_y=-165.36$   $M_z=-70.99$   $M_x=-5.14$   
 Tensioni:  $\sigma_N=119.17$   $\sigma_M=429.00$   $\tau=5.96$   $\sigma_{max}=548.17$   
 Tensioni:  $\sigma_N=119.17$   $\sigma_M=-125.75$   $\tau=84.50$   $\tau_{max}=84.50$   
 Tensioni:  $\sigma_N=119.17$   $\sigma_M=429.00$   $\tau=5.96$   $\sigma_{ID,max}=548.26$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $Xl=0.03$   
 Sollecitazioni:  $N=832.93$   $T_z=-38.71$   $T_y=-63.24$   $M_z=-31.29$   $M_x=-12.76$   
 $V,Ed=-63.24$   $Vc,Rd,Red=14723.10$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-38.71$   $Vc,Rd,Red=22084.70$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3

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Sollecitazioni:  $N=1183.71$   $T_z=-315.85$   $M_y=-77.28$   $T_y=-79.61$   $M_z=-34.37$   $M_x=-9.33$

Tensioni:  $\sigma_N=62.30$   $\sigma_M=193.03$   $\tau=10.82$   $\sigma_{max}=255.33$

Tensioni:  $\sigma_N=62.30$   $\sigma_M=-60.88$   $\tau=42.89$   $\tau_{max}=42.89$

Tensioni:  $\sigma_N=62.30$   $\sigma_M=193.03$   $\tau=10.82$   $\sigma_{ID,max}=256.02$

Asta n. 3889 (-6662 -8243) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-1862.75$   $M_y,Ed=-71.90$   $M_z,Ed=-69.84$

Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.40$   $N_{cr,y}=68272600.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.31$   $N_{cr,z}=35916200.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.03+0.03+0.04=0.10$

Verifica ZZ:  $0.03+0.02+0.04=0.09$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=2551.87$   $T_z=-354.00$   $M_y=-102.66$   $T_y=-194.60$   $M_z=-91.16$   $M_x=-6.44$

Tensioni:  $\sigma_N=134.31$   $\sigma_M=348.55$   $\tau=7.47$   $\sigma_{max}=482.86$

Tensioni:  $\sigma_N=134.31$   $\sigma_M=-161.49$   $\tau=43.44$   $\tau_{max}=43.44$

Tensioni:  $\sigma_N=134.31$   $\sigma_M=348.55$   $\tau=7.47$   $\sigma_{ID,max}=483.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X1=0.01$

Sollecitazioni:  $N=922.51$   $T_z=-110.92$   $T_y=-76.14$   $M_z=-37.72$   $M_x=-13.19$

$V,Ed=-76.14$   $V_c,Rd,Red=14719.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-110.92$   $V_c,Rd,Red=22079.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.11$  - Classe 3

Sollecitazioni:  $N=1246.56$   $T_z=-156.75$   $M_y=-33.87$   $T_y=-93.25$   $M_z=-54.01$   $M_x=-9.80$

Tensioni:  $\sigma_N=65.61$   $\sigma_M=163.44$   $\tau=11.36$   $\sigma_{max}=229.05$

Tensioni:  $\sigma_N=65.61$   $\sigma_M=-95.67$   $\tau=27.28$   $\tau_{max}=27.28$

Tensioni:  $\sigma_N=65.61$   $\sigma_M=163.44$   $\tau=11.36$   $\sigma_{ID,max}=229.89$

Asta n. 3889 (-8243 -9843) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-2292.06$   $M_y,Ed=62.86$   $M_z,Ed=-82.99$

Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.40$   $N_{cr,y}=68272800.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.31$   $N_{cr,z}=35916300.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.04+0.02+0.05=0.11$

Verifica ZZ:  $0.04+0.02+0.05=0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=2627.70$   $T_z=-477.46$   $M_y=-74.63$   $T_y=-140.63$   $M_z=-118.42$   $M_x=-4.31$

Tensioni:  $\sigma_N=138.30$   $\sigma_M=358.95$   $\tau=5.00$   $\sigma_{max}=497.25$

Tensioni:  $\sigma_N=138.30$   $\sigma_M=-209.77$   $\tau=53.48$   $\tau_{max}=53.48$

Tensioni:  $\sigma_N=138.30$   $\sigma_M=358.95$   $\tau=5.00$   $\sigma_{ID,max}=497.33$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X1=0.02$

Sollecitazioni:  $N=-2291.71$   $T_z=-721.45$   $T_y=-85.20$   $M_z=-75.55$   $M_x=-5.89$

$V,Ed=-85.20$   $V_c,Rd,Red=14783.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-721.45$   $V_c,Rd,Red=22175.50$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=1190.26$   $T_z=-191.28$   $M_y=-36.18$   $T_y=-63.64$   $M_z=-57.41$   $M_x=-8.62$

Tensioni:  $\sigma_N=62.65$   $\sigma_M=174.02$   $\tau=9.99$   $\sigma_{max}=236.67$

Tensioni:  $\sigma_N=62.65$   $\sigma_M=-101.69$   $\tau=29.41$   $\tau_{max}=29.41$

Tensioni:  $\sigma_N=62.65$   $\sigma_M=174.02$   $\tau=9.99$   $\sigma_{ID,max}=237.30$

Asta n. 3889 (-9843 -13266) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

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Sollecitazioni: N,Ed=-1999.14 My,Ed=72.52 Mz,Ed=-92.72  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.18$  Ncr,y=82998400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00 \chi_y=1.00$   
 $\lambda_z=3.00$  Ncr,z=43663000.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00 \chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.03+0.05=0.11  
Verifica ZZ: 0.03+0.02+0.05=0.11

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.09 - Classe 3  
Sollecitazioni: N=2625.88 Tz=32.83 My=-29.56 Ty=-132.30 Mz=-149.69 Mx=-3.99  
Tensioni:  $\sigma_N=138.20 \sigma_M=350.25 \tau=4.63 \sigma_{max}=488.45$   
Tensioni:  $\sigma_N=138.20 \sigma_M=43.28 \tau=23.80 \tau_{max}=23.80$   
Tensioni:  $\sigma_N=138.20 \sigma_M=350.25 \tau=4.63 \sigma_{ID,max}=488.52$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.06  
Sollecitazioni: N=144.84 Tz=604.32 Ty=-109.03 Mz=-126.53 Mx=-7.52  
V,Ed=-109.03 Vc,Rd,Red=14769.30 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=604.32 Vc,Rd,Red=22154.00 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.09 - Classe 3  
Sollecitazioni: N=1154.52 Tz=47.12 My=-23.04 Ty=-64.84 Mz=-71.69 Mx=-8.32  
Tensioni:  $\sigma_N=60.76 \sigma_M=181.93 \tau=9.65 \sigma_{max}=242.70$   
Tensioni:  $\sigma_N=60.76 \sigma_M=33.73 \tau=19.05 \tau_{max}=19.05$   
Tensioni:  $\sigma_N=60.76 \sigma_M=181.93 \tau=9.65 \sigma_{ID,max}=243.27$

Asta n. 3891 (-13264 -13954) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1495.98 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79 \chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79 \chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.07+0.01=0.08  
Verifica ZZ: 0.07=0.07
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.00$  (L/32899)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1495.98 Tz=7.08 Mx=12.37  
N,Ed=-1495.98 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.07
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-1413.43 Tz=7.08 Mx=13.39  
V,Ed=7.08 Vc,Rd,Red=5549.97 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-837.94 My=-1.95 Mx=5.98  
Tensioni:  $\sigma_N=-93.52 \sigma_M=-12.45 \tau=23.84 \sigma_{max}=-105.97$   
Tensioni:  $\sigma_N=-93.52 \sigma_M=12.45 \tau=23.84 \tau_{max}=23.84$   
Tensioni:  $\sigma_N=-93.52 \sigma_M=-12.45 \tau=23.84 \sigma_{ID,max}=113.72$

Asta n. 3892 (-13260 -13922) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1489.92 My,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79 \chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79 \chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.07+0.01=0.08  
Verifica ZZ: 0.07=0.07
- Verifica Freccia massima carichi totali - CC 112

$f_{z,g}=0.00$  (L/32192)

- Verifica a compressione [4.2.9] - CC 45 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1489.92$   $T_z=7.07$   $M_x=-12.48$   
 $N,Ed=-1489.92$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.07$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X1=0.00$   
Sollecitazioni:  $N=-1410.81$   $T_z=7.07$   $M_x=-13.48$   
 $V,Ed=7.07$   $V_c,Rd,Red=5548.37$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.75$  - Classe 3  
Sollecitazioni:  $N=-818.81$   $M_y=-1.95$   $M_x=-6.40$   
Tensioni:  $\sigma_N=-91.39$   $\sigma_M=-12.42$   $\tau=25.50$   $\sigma_{max}=-103.81$   
Tensioni:  $\sigma_N=-91.39$   $\sigma_M=12.42$   $\tau=25.50$   $\tau_{max}=25.50$   
Tensioni:  $\sigma_N=-91.39$   $\sigma_M=-12.42$   $\tau=25.50$   $\sigma_{ID,max}=112.81$

Asta n. 3893 (-2472 -14471) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-4040.52$   $M,Ed=4.45$   
Resistenze:  $N_c,Rd=28041.00$   $M,c,Rd=575.38$   $L=216.61$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=92.66$   $N_{cr}=20021.90$   $\lambda^*=1.21$   
Curva a:  $\Phi=1.34$   $\chi_{min}=0.52$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.28+0.01=0.28$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/8435)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/8987)  $f_{z,L}=0.02$  (L/12829)

- Verifica a compressione [4.2.9] - CC 75 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-4040.52$   $T=8.23$   $M_x=5.04$   
 $N,Ed=-4040.52$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.14$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X1=2.16$   
Sollecitazioni:  $N=-3803.95$   $T=8.23$   $M_x=6.87$   
 $V,Ed=8.23$   $V_c,Rd,Red=10166.80$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=1.08$  - Classe 3  
Sollecitazioni:  $N=-2424.76$   $M=3.30$   $M_x=4.15$   
Tensioni:  $\sigma_N=-292.36$   $\sigma_M=-25.47$   $\tau=16.00$   $\sigma_{max}=-317.83$   
Tensioni:  $\sigma_N=-292.36$   $\sigma_M=22.06$   $\tau=16.00$   $\tau_{max}=16.00$   
Tensioni:  $\sigma_N=-292.36$   $\sigma_M=-25.47$   $\tau=16.00$   $\sigma_{ID,max}=319.04$

Asta n. 3894 (-2473 -14475) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-4016.57$   $M,Ed=4.46$   
Resistenze:  $N_c,Rd=28041.00$   $M,c,Rd=575.38$   $L=216.61$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=92.66$   $N_{cr}=20021.90$   $\lambda^*=1.21$   
Curva a:  $\Phi=1.34$   $\chi_{min}=0.52$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.27+0.01=0.28$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/8443)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/8977)  $f_{z,L}=0.02$  (L/12769)

- Verifica a compressione [4.2.9] - CC 49 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-4016.57$   $T=8.24$   $M_x=-6.52$   
 $N,Ed=-4016.57$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.14$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X1=2.17$   
Sollecitazioni:  $N=-3733.56$   $T=8.24$   $M_x=-6.80$   
 $V,Ed=8.24$   $V_c,Rd,Red=10168.20$   $V,Ed/V_c,Rd,Red=0.00$

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- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=1.08$  - Classe 3  
Sollecitazioni:  $N=-2245.60$   $M=3.30$   $M_x=-4.17$   
Tensioni:  $\sigma_N=-270.76$   $\sigma_M=-25.52$   $\tau=16.10$   $\sigma_{max}=-296.27$   
Tensioni:  $\sigma_N=-270.76$   $\sigma_M=8.73$   $\tau=16.10$   $\tau_{max}=16.10$   
Tensioni:  $\sigma_N=-270.76$   $\sigma_M=-25.52$   $\tau=16.10$   $\sigma_{ID,max}=297.58$

Asta n. 3895 (-2459 -2548) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni:  $N,Ed=-48.45$   $M_y,Ed=-21.53$   $M_z,Ed=-43.86$   
Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=27.39$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.29$   $N_{cr,y}=3124380.00$   $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=11.71$   $N_{cr,z}=1963960.00$   $\lambda^*_z=0.15$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.00+0.02+0.05=0.07$   
Verifica ZZ:  $0.00+0.02+0.05=0.07$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3460)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3191)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=1764.64$   $T_z=81.58$   $M_y=-11.61$   $T_y=155.15$   $M_z=-75.56$   $M_x=9.27$   
Tensioni:  $\sigma_N=135.74$   $\sigma_M=359.97$   $\tau=22.46$   $\sigma_{max}=495.71$   
Tensioni:  $\sigma_N=135.74$   $\sigma_M=35.93$   $\tau=53.31$   $\tau_{max}=53.31$   
Tensioni:  $\sigma_N=135.74$   $\sigma_M=359.97$   $\tau=22.46$   $\sigma_{ID,max}=497.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $X_1=0.02$   
Sollecitazioni:  $N=1143.61$   $T_z=122.98$   $T_y=90.69$   $M_z=-42.12$   $M_x=2.93$   
 $V,Ed=90.69$   $V_c,Rd,Red=10836.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=122.98$   $V_c,Rd,Red=14448.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=1272.60$   $T_z=90.72$   $M_y=-19.96$   $T_y=89.38$   $M_z=-43.86$   $M_x=11.67$   
Tensioni:  $\sigma_N=97.89$   $\sigma_M=255.71$   $\tau=28.30$   $\sigma_{max}=353.61$   
Tensioni:  $\sigma_N=97.89$   $\sigma_M=61.78$   $\tau=46.08$   $\tau_{max}=46.08$   
Tensioni:  $\sigma_N=97.89$   $\sigma_M=255.71$   $\tau=28.30$   $\sigma_{ID,max}=356.99$

Asta n. 3895 (-2548 -3043) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni:  $N,Ed=-46.29$   $M_y,Ed=-39.13$   $M_z,Ed=-19.38$   
Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=28.58$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=7.90$   $N_{cr,y}=4978050.00$   $\lambda^*_y=0.10$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=11.92$   $N_{cr,z}=2187810.00$   $\lambda^*_z=0.16$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.00+0.03+0.02=0.05$   
Verifica ZZ:  $0.00+0.02+0.02=0.04$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3485)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3231)  $f_{z,L}=0.00$  (L/28210)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_1=0.29$  - Classe 3  
Sollecitazioni:  $N=1919.09$   $T_z=163.16$   $M_y=-94.61$   $T_y=160.97$   $M_z=11.59$   $M_x=5.29$   
Tensioni:  $\sigma_N=127.94$   $\sigma_M=281.34$   $\tau=10.13$   $\sigma_{max}=409.28$   
Tensioni:  $\sigma_N=127.94$   $\sigma_M=216.93$   $\tau=41.67$   $\tau_{max}=41.67$   
Tensioni:  $\sigma_N=127.94$   $\sigma_M=281.34$   $\tau=10.13$   $\sigma_{ID,max}=409.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_1=0.21$   
Sollecitazioni:  $N=1917.98$   $T_z=163.71$   $M_y=-81.87$   $T_y=160.97$   $M_x=5.29$

V,Ed=160.97 Vc,Rd,Red=10923.30 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=163.71 Vc,Rd,Red=18205.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.29 - Classe 3

Sollecitazioni: N=1278.46 T<sub>z</sub>=89.19 M<sub>y</sub>=-39.13 T<sub>y</sub>=89.51 M<sub>z</sub>=6.22 M<sub>x</sub>=11.67

Tensioni:  $\sigma_N=85.23$   $\sigma_M=121.31$   $\tau=22.34$   $\sigma_{max}=206.54$

Tensioni:  $\sigma_N=85.23$   $\sigma_M=89.72$   $\tau=39.86$   $\tau_{max}=39.86$

Tensioni:  $\sigma_N=85.23$   $\sigma_M=117.70$   $\tau=36.61$   $\sigma_{ID,max}=212.61$

Asta n. 3895 (-3043 -5385) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3

Sollecitazioni: N,Ed=-43.69 My,Ed=-62.81 Mz,Ed=30.91

Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=27.34

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=6.15$  Ncr,y=10416100.00  $\lambda^*_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=8.48$  Ncr,z=5479580.00  $\lambda^*_z=0.11$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.03+0.02=0.05

Verifica ZZ: 0.00+0.02+0.02=0.04

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.27 - Classe 3

Sollecitazioni: N=1923.93 T<sub>z</sub>=160.55 M<sub>y</sub>=-138.82 T<sub>y</sub>=162.23 M<sub>z</sub>=56.05 M<sub>x</sub>=5.24

Tensioni:  $\sigma_N=101.26$   $\sigma_M=335.24$   $\tau=6.08$   $\sigma_{max}=436.50$

Tensioni:  $\sigma_N=101.26$   $\sigma_M=203.29$   $\tau=29.61$   $\tau_{max}=29.61$

Tensioni:  $\sigma_N=101.26$   $\sigma_M=335.24$   $\tau=6.08$   $\sigma_{ID,max}=436.63$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.05

Sollecitazioni: N=906.56 T<sub>z</sub>=-23.23 T<sub>y</sub>=82.26 M<sub>z</sub>=10.21 M<sub>x</sub>=9.53

V,Ed=82.26 Vc,Rd,Red=14751.60 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-23.23 Vc,Rd,Red=22127.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.27 - Classe 3

Sollecitazioni: N=1282.48 T<sub>z</sub>=88.61 M<sub>y</sub>=-62.81 T<sub>y</sub>=90.18 M<sub>z</sub>=30.91 M<sub>x</sub>=11.66

Tensioni:  $\sigma_N=67.50$   $\sigma_M=162.90$   $\tau=13.51$   $\sigma_{max}=230.40$

Tensioni:  $\sigma_N=67.50$   $\sigma_M=91.98$   $\tau=26.59$   $\tau_{max}=26.59$

Tensioni:  $\sigma_N=67.50$   $\sigma_M=162.90$   $\tau=13.51$   $\sigma_{ID,max}=231.59$

Asta n. 3895 (-5385 -8440) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-1732.42 My,Ed=-138.62 Mz,Ed=50.31

Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=6.62$  Ncr,z=8979060.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.03+0.05+0.03=0.11

Verifica ZZ: 0.03+0.04+0.03=0.10

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=1992.93 T<sub>z</sub>=-446.94 M<sub>y</sub>=-127.01 T<sub>y</sub>=111.55 M<sub>z</sub>=61.56 M<sub>x</sub>=4.42

Tensioni:  $\sigma_N=104.89$   $\sigma_M=327.52$   $\tau=5.12$   $\sigma_{max}=432.42$

Tensioni:  $\sigma_N=104.89$   $\sigma_M=-109.04$   $\tau=50.50$   $\tau_{max}=50.50$

Tensioni:  $\sigma_N=104.89$   $\sigma_M=327.52$   $\tau=5.12$   $\sigma_{ID,max}=432.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.19

Sollecitazioni: N=1568.55 T<sub>z</sub>=-301.23 T<sub>y</sub>=87.95 M<sub>z</sub>=68.90 M<sub>x</sub>=21.62

V,Ed=87.95 Vc,Rd,Red=14645.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-301.23 Vc,Rd,Red=21967.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=1084.71 T<sub>z</sub>=-175.23 M<sub>y</sub>=-56.61 T<sub>y</sub>=60.20 M<sub>z</sub>=34.36 M<sub>x</sub>=10.61

Tensioni:  $\sigma_N=57.09$   $\sigma_M=160.00$   $\tau=12.30$   $\sigma_{max}=217.09$

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Tensioni:  $\sigma_N=57.09$   $\sigma_M=-60.87$   $\tau=30.10$   $\tau_{max}=30.10$   
Tensioni:  $\sigma_N=57.09$   $\sigma_M=160.00$   $\tau=12.30$   $\sigma_{ID,max}=218.14$

Asta n. 3895 (-8440 -10136) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2183.61 My,Ed=49.35 Mz,Ed=61.69  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68273900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916900.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.02+0.04=0.09  
Verifica ZZ: 0.03+0.01+0.04=0.08
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2479.43 Tz=-265.88 My=-42.53 Ty=117.46 Mz=91.86 Mx=4.14  
Tensioni:  $\sigma_N=130.50$   $\sigma_M=253.91$   $\tau=4.79$   $\sigma_{max}=384.40$   
Tensioni:  $\sigma_N=130.50$   $\sigma_M=-162.72$   $\tau=31.80$   $\tau_{max}=31.80$   
Tensioni:  $\sigma_N=130.50$   $\sigma_M=253.91$   $\tau=4.79$   $\sigma_{ID,max}=384.49$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.03  
Sollecitazioni: N=-97.03 Tz=-318.78 Ty=98.92 Mz=79.75 Mx=2.31  
V,Ed=98.92 Vc,Rd,Red=14815.20 V,Ed/Vc,Rd,Red=0.01
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-318.78 Vc,Rd,Red=22222.90 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1155.28 Tz=-115.92 My=-24.46 Ty=62.18 Mz=50.74 Mx=10.36  
Tensioni:  $\sigma_N=60.80$   $\sigma_M=141.79$   $\tau=12.01$   $\sigma_{max}=202.59$   
Tensioni:  $\sigma_N=60.80$   $\sigma_M=-89.88$   $\tau=23.78$   $\tau_{max}=23.78$   
Tensioni:  $\sigma_N=60.80$   $\sigma_M=141.79$   $\tau=12.01$   $\sigma_{ID,max}=203.66$

Asta n. 3895 (-10136 -13934) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2543.92 My,Ed=43.89 Mz,Ed=70.90  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.88  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.22$  Ncr,y=79780700.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.06$  Ncr,z=41970300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.02+0.04=0.10  
Verifica ZZ: 0.04+0.01+0.04=0.09
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=2340.97 Tz=-130.02 My=-6.49 Ty=118.66 Mz=119.35 Mx=4.31  
Tensioni:  $\sigma_N=123.21$   $\sigma_M=251.98$   $\tau=5.00$   $\sigma_{max}=375.19$   
Tensioni:  $\sigma_N=123.21$   $\sigma_M=9.50$   $\tau=22.21$   $\tau_{max}=22.21$   
Tensioni:  $\sigma_N=123.21$   $\sigma_M=251.98$   $\tau=5.00$   $\sigma_{ID,max}=375.29$
  - Verifica a taglio dir. Y [4.2.16] - CC 45 SLU Xl=0.08  
Sollecitazioni: N=-2542.46 Tz=543.80 Ty=73.30 Mz=69.59  
V,Ed=73.30 Vc,Rd=14835.60 V,Ed/Vc,Rd=0.00
  - Verifica a taglio dir. Z [4.2.16]  
V,Ed=543.80 Vc,Rd=22253.40 V,Ed/Vc,Rd=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=1058.49 Tz=-86.58 My=18.31 Ty=63.32 Mz=65.25 Mx=10.37  
Tensioni:  $\sigma_N=55.71$   $\sigma_M=161.36$   $\tau=12.02$   $\sigma_{max}=217.07$   
Tensioni:  $\sigma_N=55.71$   $\sigma_M=-26.82$   $\tau=21.21$   $\tau_{max}=21.21$   
Tensioni:  $\sigma_N=55.71$   $\sigma_M=161.36$   $\tau=12.02$   $\sigma_{ID,max}=218.07$

Asta n. 3896 (-2460 -2549) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3460)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3182)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=1711.29$   $T_z=97.60$   $M_y=-8.47$   $T_y=-151.51$   $M_z=73.66$   $M_x=-5.58$   
 Tensioni:  $\sigma_N=131.64$   $\sigma_M=340.84$   $\tau=13.54$   $\sigma_{max}=472.48$   
 Tensioni:  $\sigma_N=131.64$   $\sigma_M=26.23$   $\tau=43.67$   $\tau_{max}=43.67$   
 Tensioni:  $\sigma_N=131.64$   $\sigma_M=340.84$   $\tau=13.54$   $\sigma_{ID,max}=473.06$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.00$   
 Sollecitazioni:  $N=1859.90$   $T_z=183.03$   $T_y=-157.65$   $M_z=76.86$   $M_x=-2.23$   
 $V,Ed=-157.65$   $Vc,Rd,Red=10845.60$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=183.03$   $Vc,Rd,Red=14460.90$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=1163.59$   $T_z=86.61$   $M_y=-15.41$   $T_y=-82.19$   $M_z=40.24$   $M_x=-9.79$   
 Tensioni:  $\sigma_N=89.51$   $\sigma_M=224.35$   $\tau=23.74$   $\sigma_{max}=313.85$   
 Tensioni:  $\sigma_N=89.51$   $\sigma_M=47.71$   $\tau=40.10$   $\tau_{max}=40.10$   
 Tensioni:  $\sigma_N=89.51$   $\sigma_M=224.35$   $\tau=23.74$   $\sigma_{ID,max}=316.54$

Asta n. 3896 (-2549 -3044) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3495)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3249)  $f_{z,L}=0.00$  (L/26063)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.29$  - Classe 3  
 Sollecitazioni:  $N=1867.33$   $T_z=179.33$   $M_y=-101.81$   $T_y=-158.02$   $M_z=-11.50$   $M_x=-2.22$   
 Tensioni:  $\sigma_N=124.49$   $\sigma_M=299.40$   $\tau=4.24$   $\sigma_{max}=423.89$   
 Tensioni:  $\sigma_N=124.49$   $\sigma_M=233.46$   $\tau=35.23$   $\tau_{max}=35.23$   
 Tensioni:  $\sigma_N=124.49$   $\sigma_M=299.40$   $\tau=4.24$   $\sigma_{ID,max}=423.95$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.21$   
 Sollecitazioni:  $N=1866.22$   $T_z=179.88$   $M_y=-87.81$   $T_y=-158.02$   $M_x=-2.22$   
 $V,Ed=-158.02$   $Vc,Rd,Red=10956.40$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=179.88$   $Vc,Rd,Red=18260.70$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.29$  - Classe 3  
 Sollecitazioni:  $N=1169.43$   $T_z=85.16$   $M_y=-40.39$   $T_y=-82.28$   $M_z=-5.80$   $M_x=-9.79$   
 Tensioni:  $\sigma_N=77.96$   $\sigma_M=123.07$   $\tau=18.74$   $\sigma_{max}=201.03$   
 Tensioni:  $\sigma_N=77.96$   $\sigma_M=92.61$   $\tau=34.85$   $\tau_{max}=34.85$   
 Tensioni:  $\sigma_N=77.96$   $\sigma_M=119.71$   $\tau=31.86$   $\sigma_{ID,max}=205.23$

Asta n. 3896 (-3044 -5386) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.27$  - Classe 3  
 Sollecitazioni:  $N=1872.17$   $T_z=176.79$   $M_y=-150.47$   $T_y=-159.28$   $M_z=-55.16$   $M_x=-2.16$   
 Tensioni:  $\sigma_N=98.54$   $\sigma_M=352.05$   $\tau=2.50$   $\sigma_{max}=450.58$   
 Tensioni:  $\sigma_N=98.54$   $\sigma_M=220.34$   $\tau=25.62$   $\tau_{max}=25.62$   
 Tensioni:  $\sigma_N=98.54$   $\sigma_M=352.05$   $\tau=2.50$   $\sigma_{ID,max}=450.60$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.27$  - Classe 3  
 Sollecitazioni:  $N=1173.45$   $T_z=84.72$   $M_y=-63.31$   $T_y=-82.86$   $M_z=-28.49$   $M_x=-9.77$   
 Tensioni:  $\sigma_N=61.76$   $\sigma_M=158.82$   $\tau=11.33$   $\sigma_{max}=220.58$   
 Tensioni:  $\sigma_N=61.76$   $\sigma_M=92.71$   $\tau=23.35$   $\tau_{max}=23.35$   
 Tensioni:  $\sigma_N=61.76$   $\sigma_M=158.82$   $\tau=11.33$   $\sigma_{ID,max}=221.45$

Asta n. 3896 (-5386 -8441) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1711.91$   $M_y,Ed=-137.17$   $M_z,Ed=-50.99$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=21.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$   $N_{cr,y}=17068200.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$



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$\lambda_z=6.62$  Ncr, z=8979060.00  $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.05+0.03=0.11  
Verifica ZZ: 0.03+0.04+0.03=0.10

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=1922.04 T<sub>z</sub>=-454.49 M<sub>y</sub>=-134.89 T<sub>y</sub>=-111.46 M<sub>z</sub>=-60.15 M<sub>x</sub>=-1.67  
Tensioni:  $\sigma_N=101.16$   $\sigma_M=337.26$   $\tau=1.94$   $\sigma_{max}=438.42$   
Tensioni:  $\sigma_N=101.16$   $\sigma_M=-106.55$   $\tau=48.08$   $\tau_{max}=48.08$   
Tensioni:  $\sigma_N=101.16$   $\sigma_M=337.26$   $\tau=1.94$   $\sigma_{ID,max}=438.43$
- Verifica a taglio dir. Y [4.2.16] - CC 45 SLU Xl=0.17  
Sollecitazioni: N=-1708.75 T<sub>z</sub>=-787.63 T<sub>y</sub>=-67.25 M<sub>z</sub>=-48.38  
V,Ed=-67.25 Vc,Rd=14835.60 V,Ed/Vc,Rd=0.00
- Verifica a taglio dir. Z [4.2.16]  
V,Ed=-787.63 Vc,Rd=22253.40 V,Ed/Vc,Rd=0.04
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1005.85 T<sub>z</sub>=-171.43 M<sub>y</sub>=-56.46 T<sub>y</sub>=-56.82 M<sub>z</sub>=-31.36 M<sub>x</sub>=-8.99  
Tensioni:  $\sigma_N=52.94$   $\sigma_M=153.67$   $\tau=10.42$   $\sigma_{max}=206.61$   
Tensioni:  $\sigma_N=52.94$   $\sigma_M=-55.54$   $\tau=27.82$   $\tau_{max}=27.82$   
Tensioni:  $\sigma_N=52.94$   $\sigma_M=153.67$   $\tau=10.42$   $\sigma_{ID,max}=207.40$

Asta n. 3896 (-8441 -10137) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2622.46 M<sub>y</sub>,Ed=72.47 M<sub>z</sub>,Ed=-62.15  
Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr, y=68272600.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr, z=35916200.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.03+0.04=0.10  
Verifica ZZ: 0.04+0.02+0.04=0.10
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2240.70 T<sub>z</sub>=-399.52 M<sub>y</sub>=-51.05 T<sub>y</sub>=-100.51 M<sub>z</sub>=-91.75  
Tensioni:  $\sigma_N=117.93$   $\sigma_M=267.29$   $\tau=0.00$   $\sigma_{max}=385.23$   
Tensioni:  $\sigma_N=117.93$   $\sigma_M=-162.53$   $\tau=40.57$   $\tau_{max}=40.57$   
Tensioni:  $\sigma_N=117.93$   $\sigma_M=267.29$   $\tau=0.00$   $\sigma_{ID,max}=385.23$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.11  
Sollecitazioni: N=2246.08 T<sub>z</sub>=-343.24 T<sub>y</sub>=-95.91 M<sub>z</sub>=-99.14 M<sub>x</sub>=-3.75  
V,Ed=-95.91 Vc,Rd,Red=14802.60 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-343.24 Vc,Rd,Red=22203.80 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1026.63 T<sub>z</sub>=-155.50 M<sub>y</sub>=-24.92 T<sub>y</sub>=-46.28 M<sub>z</sub>=-47.80 M<sub>x</sub>=-8.16  
Tensioni:  $\sigma_N=54.03$   $\sigma_M=136.59$   $\tau=9.46$   $\sigma_{max}=190.63$   
Tensioni:  $\sigma_N=54.03$   $\sigma_M=-84.68$   $\tau=25.25$   $\tau_{max}=25.25$   
Tensioni:  $\sigma_N=54.03$   $\sigma_M=136.59$   $\tau=9.46$   $\sigma_{ID,max}=191.33$

Asta n. 3896 (-10137 -13942) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2272.99 M<sub>y</sub>,Ed=82.42 M<sub>z</sub>,Ed=-69.64  
Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=9.88  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.22$  Ncr, y=79782300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.06$  Ncr, z=41971200.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.03+0.04=0.11  
Verifica ZZ: 0.04+0.02+0.04=0.10
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2272.99 T<sub>z</sub>=935.18 M<sub>y</sub>=82.42 T<sub>y</sub>=-60.62 M<sub>z</sub>=-63.88  
Tensioni:  $\sigma_N=-119.63$   $\sigma_M=-260.99$   $\tau=0.00$   $\sigma_{max}=-380.62$

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Tensioni:  $\sigma_N=-119.63$   $\sigma_M=-113.15$   $\tau=94.93$   $\tau_{max}=94.93$   
Tensioni:  $\sigma_N=-119.63$   $\sigma_M=-250.01$   $\tau=57.27$   $\sigma_{TD,max}=382.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.02$   
Sollecitazioni:  $N=2374.63$   $T_z=54.71$   $T_y=-89.86$   $M_z=-102.90$   $M_x=-3.47$   
 $V,Ed=-89.86$   $V_c,Rd,Red=14805.00$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=54.71$   $V_c,Rd,Red=22207.50$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=1022.11$   $T_z=37.46$   $M_y=-15.14$   $T_y=-47.35$   $M_z=-58.31$   $M_x=-8.03$   
Tensioni:  $\sigma_N=53.80$   $\sigma_M=142.25$   $\tau=9.31$   $\sigma_{max}=196.04$   
Tensioni:  $\sigma_N=53.80$   $\sigma_M=22.17$   $\tau=16.17$   $\tau_{max}=16.17$   
Tensioni:  $\sigma_N=53.80$   $\sigma_M=142.25$   $\tau=9.31$   $\sigma_{TD,max}=196.70$

Asta n. 3898 (-13940 -14625) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-1453.93$   $M_y,Ed=-2.64$   
Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda_y^*=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda_z^*=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
Verifica YY:  $0.07+0.01=0.08$   
Verifica ZZ:  $0.07=0.07$

- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,L}=0.00$  (L/31892)

- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1453.93$   $T_z=7.08$   $M_x=12.88$   
 $N,Ed=-1453.93$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.07$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=1.49$   
Sollecitazioni:  $N=-1367.56$   $T_z=-7.08$   $M_x=13.95$   
 $V,Ed=-7.08$   $V_c,Rd,Red=5539.90$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.74$  - Classe 3  
Sollecitazioni:  $N=-849.46$   $M_y=-1.95$   $M_x=6.18$   
Tensioni:  $\sigma_N=-94.81$   $\sigma_M=-12.45$   $\tau=24.62$   $\sigma_{max}=-107.25$   
Tensioni:  $\sigma_N=-94.81$   $\sigma_M=12.45$   $\tau=24.62$   $\tau_{max}=24.62$   
Tensioni:  $\sigma_N=-94.81$   $\sigma_M=-12.45$   $\tau=24.62$   $\sigma_{TD,max}=115.42$

Asta n. 3899 (-13936 -14593) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-1458.83$   $M_y,Ed=-2.63$   
Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda_y^*=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda_z^*=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
Verifica YY:  $0.07+0.01=0.08$   
Verifica ZZ:  $0.07=0.07$

- Verifica Freccia massima carichi totali - CC 76  
 $f_{z,G}=0.00$  (L/31864)

- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1458.83$   $T_z=7.07$   $M_x=-12.73$   
 $N,Ed=-1458.83$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.07$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=1.49$   
Sollecitazioni:  $N=-1371.26$   $T_z=-7.07$   $M_x=-13.73$   
 $V,Ed=-7.07$   $V_c,Rd,Red=5543.82$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.75$  - Classe 3  
Sollecitazioni:  $N=-826.35$   $M_y=-1.95$   $M_x=-6.29$   
Tensioni:  $\sigma_N=-92.23$   $\sigma_M=-12.42$   $\tau=25.08$   $\sigma_{max}=-104.65$

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Tensioni:  $\sigma_N=-92.23$   $\sigma_M=12.42$   $\tau=25.08$   $\tau_{max}=25.08$   
Tensioni:  $\sigma_N=-92.23$   $\sigma_M=-12.42$   $\tau=25.08$   $\sigma_{ID,max}=113.31$

Asta n. 3900 (-2460 -15075) Tubo circolare d=70x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
Sollecitazioni: N,Ed=-2873.41 M,Ed=4.20  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=213.17  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , ----, ----  
 $\lambda=91.18$  Ncr=20674.20  $\lambda^*=1.19$   
Curva a:  $\Phi=1.32$   $\chi_{min}=0.53$   
Kyy, Kyz, Kzy, Kzz=1.10, ----, ----, ----  
Verifica: 0.19+0.01=0.20
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/7389)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.02$  (L/9198)  $f_{z,L}=0.02$  (L/13749)
  - Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2873.41 T=7.89  $M_x=-8.01$   
N,Ed=-2873.41 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.10
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-2593.27 T=7.89  $M_x=-8.67$   
V,Ed=7.89 Vc,Rd,Red=10130.10 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.07 - Classe 3  
Sollecitazioni: N=-1713.12 M=3.11  $M_x=-4.54$   
Tensioni:  $\sigma_N=-206.55$   $\sigma_M=-24.05$   $\tau=17.55$   $\sigma_{max}=-230.60$   
Tensioni:  $\sigma_N=-206.55$   $\sigma_M=20.83$   $\tau=17.55$   $\tau_{max}=17.55$   
Tensioni:  $\sigma_N=-206.55$   $\sigma_M=-24.05$   $\tau=17.55$   $\sigma_{ID,max}=232.60$

Asta n. 3901 (-2459 -15071) Tubo circolare d=70x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
Sollecitazioni: N,Ed=-2866.23 M,Ed=4.20  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=213.17  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , ----, ----  
 $\lambda=91.18$  Ncr=20674.20  $\lambda^*=1.19$   
Curva a:  $\Phi=1.32$   $\chi_{min}=0.53$   
Kyy, Kyz, Kzy, Kzz=1.10, ----, ----, ----  
Verifica: 0.19+0.01=0.20
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/7381)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.02$  (L/9189)  $f_{z,L}=0.02$  (L/13823)
  - Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2866.23 T=7.88  $M_x=7.92$   
N,Ed=-2866.23 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.10
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=2.13  
Sollecitazioni: N=-2617.77 T=7.88  $M_x=9.11$   
V,Ed=7.88 Vc,Rd,Red=10121.10 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.06 - Classe 3  
Sollecitazioni: N=-1874.28 M=3.11  $M_x=4.39$   
Tensioni:  $\sigma_N=-225.99$   $\sigma_M=-24.00$   $\tau=16.96$   $\sigma_{max}=-249.99$   
Tensioni:  $\sigma_N=-225.99$   $\sigma_M=20.78$   $\tau=16.96$   $\tau_{max}=16.96$   
Tensioni:  $\sigma_N=-225.99$   $\sigma_M=-24.00$   $\tau=16.96$   $\sigma_{ID,max}=251.71$

Asta n. 3902 (-2434 -2526) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-369.78 My,Ed=14.73 Mz,Ed=32.66  
Resistenze: Nc,Rd=43952.40 My,c,Rd=955.82 Mz,c,Rd=801.10 L=30.95  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

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$\lambda_y=10.49$  Ncr,y=2446990.00  $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.24$  Ncr,z=1538160.00  $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.01+0.04=0.06  
 Verifica ZZ: 0.01+0.01+0.04=0.06

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3566)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3470)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=912.50  $T_z=104.56$   $M_y=28.64$   $T_y=-96.95$   $M_z=49.45$   $M_x=-7.10$   
 Tensioni:  $\sigma_N=70.19$   $\sigma_M=310.01$   $\tau=17.21$   $\sigma_{max}=380.21$   
 Tensioni:  $\sigma_N=70.19$   $\sigma_M=-88.65$   $\tau=36.52$   $\tau_{max}=36.52$   
 Tensioni:  $\sigma_N=70.19$   $\sigma_M=310.01$   $\tau=17.21$   $\sigma_{ID,max}=381.38$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU Xl=0.08  
 Sollecitazioni: N=252.63  $T_z=110.02$   $T_y=-109.13$   $M_z=45.45$   
 $V_{,Ed}=-109.13$   $V_{c,Rd}=10875.70$   $V_{,Ed/V_{c,Rd}}=0.01$
- Verifica a taglio dir. Z [4.2.16]  
 $V_{,Ed}=110.02$   $V_{c,Rd}=14501.00$   $V_{,Ed/V_{c,Rd}}=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=546.25  $T_z=50.51$   $M_y=14.73$   $T_y=-64.04$   $M_z=32.66$   $M_x=-11.18$   
 Tensioni:  $\sigma_N=42.02$   $\sigma_M=189.93$   $\tau=27.10$   $\sigma_{max}=231.95$   
 Tensioni:  $\sigma_N=42.02$   $\sigma_M=-45.58$   $\tau=39.84$   $\tau_{max}=39.84$   
 Tensioni:  $\sigma_N=42.02$   $\sigma_M=189.93$   $\tau=27.10$   $\sigma_{ID,max}=236.66$

Asta n. 3902 (-2526 -3057) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni: N,Ed=-352.64  $M_y,Ed=-25.90$   $M_z,Ed=10.81$   
 Resistenze:  $N_{c,Rd}=50714.30$   $M_{y,c,Rd}=1327.02$   $M_{z,c,Rd}=972.02$  L=30.95  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=8.56$  Ncr,y=4246620.00  $\lambda^*_y=0.11$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=12.91$  Ncr,z=1866350.00  $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.02+0.01=0.04  
 Verifica ZZ: 0.01+0.01+0.01=0.03
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3566)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3461)
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.31 - Classe 3  
 Sollecitazioni: N=602.44  $T_z=86.16$   $M_y=-56.94$   $T_y=-59.97$   $M_z=-7.62$   $M_x=4.07$   
 Tensioni:  $\sigma_N=40.16$   $\sigma_M=171.57$   $\tau=7.80$   $\sigma_{max}=211.73$   
 Tensioni:  $\sigma_N=40.16$   $\sigma_M=-130.56$   $\tau=19.56$   $\tau_{max}=19.56$   
 Tensioni:  $\sigma_N=40.16$   $\sigma_M=171.57$   $\tau=7.80$   $\sigma_{ID,max}=212.16$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU Xl=0.20  
 Sollecitazioni: N=258.22  $T_z=107.26$   $M_y=-45.56$   $T_y=-109.13$   
 $V_{,Ed}=-109.13$   $V_{c,Rd}=10980.30$   $V_{,Ed/V_{c,Rd}}=0.01$
- Verifica a taglio dir. Z [4.2.16]  
 $V_{,Ed}=107.26$   $V_{c,Rd}=18300.50$   $V_{,Ed/V_{c,Rd}}=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.31 - Classe 3  
 Sollecitazioni: N=538.05  $T_z=47.28$   $M_y=-25.90$   $T_y=-55.20$   $M_z=-6.30$   $M_x=-7.42$   
 Tensioni:  $\sigma_N=35.87$   $\sigma_M=87.90$   $\tau=14.20$   $\sigma_{max}=123.77$   
 Tensioni:  $\sigma_N=35.87$   $\sigma_M=59.38$   $\tau=25.01$   $\tau_{max}=25.01$   
 Tensioni:  $\sigma_N=35.87$   $\sigma_M=84.24$   $\tau=23.00$   $\sigma_{ID,max}=126.55$

Asta n. 3902 (-3057 -5612) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni: N,Ed=-349.43 My,Ed=-38.31 Mz,Ed=-22.06  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=28.53  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.42$  Ncr,y=9563340.00  $\lambda^*_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.85$  Ncr,z=5031000.00  $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.02+0.01=0.04  
 Verifica ZZ: 0.01+0.01+0.01=0.03

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.29 - Classe 3  
 Sollecitazioni: N=264.90 Tz=103.75 My=-87.54 Ty=-109.48 Mz=-44.21  
 Tensioni:  $\sigma_N=13.94$   $\sigma_M=229.34$   $\tau=0.00$   $\sigma_{max}=243.28$   
 Tensioni:  $\sigma_N=13.94$   $\sigma_M=-128.19$   $\tau=15.88$   $\tau_{max}=15.88$   
 Tensioni:  $\sigma_N=13.94$   $\sigma_M=229.34$   $\tau=0.00$   $\sigma_{ID,max}=243.28$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.29 - Classe 3  
 Sollecitazioni: N=557.06 Tz=48.47 My=-33.66 Ty=-64.14 Mz=-25.24 Mx=-11.17  
 Tensioni:  $\sigma_N=29.32$   $\sigma_M=104.88$   $\tau=12.95$   $\sigma_{max}=134.20$   
 Tensioni:  $\sigma_N=29.32$   $\sigma_M=49.30$   $\tau=22.25$   $\tau_{max}=22.25$   
 Tensioni:  $\sigma_N=29.32$   $\sigma_M=104.88$   $\tau=12.95$   $\sigma_{ID,max}=136.07$

Asta n. 3902 (-5612 -8662) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2522.57 My,Ed=-107.89 Mz,Ed=-35.70  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979100.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.04+0.02=0.10  
 Verifica ZZ: 0.04+0.03+0.02=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2522.57 Tz=-713.18 My=-107.89 Ty=-42.67 Mz=-26.59 Mx=3.96  
 Tensioni:  $\sigma_N=-132.77$   $\sigma_M=-226.18$   $\tau=4.60$   $\sigma_{max}=-358.94$   
 Tensioni:  $\sigma_N=-132.77$   $\sigma_M=47.09$   $\tau=76.99$   $\tau_{max}=76.99$   
 Tensioni:  $\sigma_N=-132.77$   $\sigma_M=-226.18$   $\tau=4.60$   $\sigma_{ID,max}=359.03$

- Verifica a taglio dir. Y [4.2.16] - CC 75 SLU Xl=0.16  
 Sollecitazioni: N=705.62 Tz=-211.11 Ty=-71.92 Mz=-56.05  
 V,Ed=-71.92 Vc,Rd=14835.60 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=-211.11 Vc,Rd=22253.40 V,Ed/Vc,Rd=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=572.14 Tz=-116.05 My=-31.21 Ty=-43.21 Mz=-27.69 Mx=-10.34  
 Tensioni:  $\sigma_N=30.11$   $\sigma_M=105.92$   $\tau=11.99$   $\sigma_{max}=136.03$   
 Tensioni:  $\sigma_N=30.11$   $\sigma_M=-49.05$   $\tau=23.77$   $\tau_{max}=23.77$   
 Tensioni:  $\sigma_N=30.11$   $\sigma_M=105.92$   $\tau=11.99$   $\sigma_{ID,max}=137.61$

Asta n. 3902 (-8662 -10382) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3324.55 My,Ed=82.75 Mz,Ed=-42.94  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.48  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$  Ncr,y=70872700.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$  Ncr,z=37284100.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.03+0.02=0.11  
 Verifica ZZ: 0.05+0.02+0.02=0.10

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3322.66 Tz=-672.35 My=82.75 Ty=-41.94 Mz=-42.94 Mx=4.18  
 Tensioni:  $\sigma_N=-174.88$   $\sigma_M=-219.12$   $\tau=4.85$   $\sigma_{max}=-394.00$   
 Tensioni:  $\sigma_N=-174.88$   $\sigma_M=76.06$   $\tau=73.10$   $\tau_{max}=73.10$

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Tensioni:  $\sigma_N=-174.88$   $\sigma_M=-219.12$   $\tau=4.85$   $\sigma_{ID,max}=394.09$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.08$   
Sollecitazioni:  $N=1309.72$   $T_z=-321.89$   $T_y=-68.99$   $M_z=-74.62$   
 $V,Ed=-68.99$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-321.89$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=695.02$   $T_z=-121.65$   $M_y=16.20$   $T_y=-32.11$   $M_z=-43.63$   $M_x=-9.60$   
Tensioni:  $\sigma_N=36.58$   $\sigma_M=114.21$   $\tau=11.13$   $\sigma_{max}=150.79$   
Tensioni:  $\sigma_N=36.58$   $\sigma_M=-77.29$   $\tau=23.48$   $\tau_{max}=23.48$   
Tensioni:  $\sigma_N=36.58$   $\sigma_M=114.21$   $\tau=11.13$   $\sigma_{ID,max}=152.02$

Asta n. 3902 (-10382 -14613) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2905.34$   $M_y,Ed=93.61$   $M_z,Ed=-48.33$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.28$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.31$   $N_{cr,y}=73691800.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.19$   $N_{cr,z}=38767100.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.05+0.03+0.03=0.11$   
Verifica ZZ:  $0.05+0.03+0.03=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2905.34$   $T_z=840.08$   $M_y=93.61$   $T_y=-51.63$   $M_z=-43.21$   $M_x=3.68$   
Tensioni:  $\sigma_N=-152.91$   $\sigma_M=-237.03$   $\tau=4.26$   $\sigma_{max}=-389.95$   
Tensioni:  $\sigma_N=-152.91$   $\sigma_M=-76.55$   $\tau=89.54$   $\tau_{max}=89.54$   
Tensioni:  $\sigma_N=-152.91$   $\sigma_M=-237.03$   $\tau=4.26$   $\sigma_{ID,max}=390.02$

- Verifica a taglio dir. Y [4.2.16] - CC 60 SLU  $X_l=0.01$   
Sollecitazioni:  $N=1098.78$   $T_z=-59.69$   $T_y=-59.53$   $M_z=-63.14$   
 $V,Ed=-59.53$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-59.69$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=737.56$   $T_z=-47.68$   $M_y=19.97$   $T_y=-33.77$   $M_z=-47.75$   $M_x=-9.44$   
Tensioni:  $\sigma_N=38.82$   $\sigma_M=128.57$   $\tau=10.94$   $\sigma_{max}=167.39$   
Tensioni:  $\sigma_N=38.82$   $\sigma_M=-29.24$   $\tau=15.84$   $\tau_{max}=15.84$   
Tensioni:  $\sigma_N=38.82$   $\sigma_M=128.57$   $\tau=10.94$   $\sigma_{ID,max}=168.46$

Asta n. 3903 (-2433 -2525) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni:  $N,Ed=-440.91$   $M_y,Ed=17.96$   $M_z,Ed=-36.32$   
Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=30.95$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=10.49$   $N_{cr,y}=2446990.00$   $\lambda'_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.24$   $N_{cr,z}=1538160.00$   $\lambda'_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.02+0.04=0.07$   
Verifica ZZ:  $0.01+0.01+0.04=0.07$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3566)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3470)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=902.03$   $T_z=102.72$   $M_y=28.70$   $T_y=95.89$   $M_z=-49.07$   $M_x=7.13$   
Tensioni:  $\sigma_N=69.39$   $\sigma_M=308.58$   $\tau=17.28$   $\sigma_{max}=377.97$   
Tensioni:  $\sigma_N=69.39$   $\sigma_M=-88.82$   $\tau=36.38$   $\tau_{max}=36.38$   
Tensioni:  $\sigma_N=69.39$   $\sigma_M=308.58$   $\tau=17.28$   $\sigma_{ID,max}=379.15$

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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.08$   
Sollecitazioni:  $N=287.74$   $T_z=96.70$   $T_y=110.75$   $M_z=-46.29$   $M_x=3.34$   
 $V,Ed=110.75$   $Vc,Rd,Red=10830.60$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=96.70$   $Vc,Rd,Red=14440.80$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=611.50$   $T_z=56.41$   $M_y=17.96$   $T_y=70.90$   $M_z=-36.32$   $M_x=14.37$   
Tensioni:  $\sigma_N=47.04$   $\sigma_M=216.81$   $\tau=34.84$   $\sigma_{max}=263.85$   
Tensioni:  $\sigma_N=47.04$   $\sigma_M=-55.60$   $\tau=48.94$   $\tau_{max}=48.94$   
Tensioni:  $\sigma_N=47.04$   $\sigma_M=216.81$   $\tau=34.84$   $\sigma_{ID,max}=270.66$

Asta n. 3903 (-2525 -3056) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni:  $N,Ed=-382.21$   $M_y,Ed=-30.20$   $M_z,Ed=-11.52$   
Resistenze:  $Nc,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=30.95$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=8.56$   $Ncr,y=4246610.00$   $\lambda^*_y=0.11$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=12.91$   $Ncr,z=1866340.00$   $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.02+0.01=0.04$   
Verifica ZZ:  $0.01+0.02+0.01=0.04$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3585)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3489)
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.31$  - Classe 3  
Sollecitazioni:  $N=590.03$   $T_z=83.04$   $M_y=-54.90$   $T_y=59.65$   $M_z=7.50$   $M_x=-3.89$   
Tensioni:  $\sigma_N=39.34$   $\sigma_M=165.97$   $\tau=7.45$   $\sigma_{max}=205.31$   
Tensioni:  $\sigma_N=39.34$   $\sigma_M=-125.88$   $\tau=19.15$   $\tau_{max}=19.15$   
Tensioni:  $\sigma_N=39.34$   $\sigma_M=165.97$   $\tau=7.45$   $\sigma_{ID,max}=205.71$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.20$   
Sollecitazioni:  $N=293.33$   $T_z=93.94$   $M_y=-39.86$   $T_y=110.74$   $M_x=3.34$   
 $V,Ed=110.74$   $Vc,Rd,Red=10944.30$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=93.94$   $Vc,Rd,Red=18240.50$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X1=0.31$  - Classe 3  
Sollecitazioni:  $N=561.73$   $T_z=55.31$   $M_y=-30.20$   $T_y=58.46$   $M_z=6.59$   $M_x=8.94$   
Tensioni:  $\sigma_N=37.45$   $\sigma_M=99.86$   $\tau=17.12$   $\sigma_{max}=137.31$   
Tensioni:  $\sigma_N=37.45$   $\sigma_M=69.25$   $\tau=28.56$   $\tau_{max}=28.56$   
Tensioni:  $\sigma_N=37.45$   $\sigma_M=96.04$   $\tau=26.44$   $\sigma_{ID,max}=141.13$

Asta n. 3903 (-3056 -5611) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni:  $N,Ed=-378.93$   $M_y,Ed=-45.16$   $M_z,Ed=23.29$   
Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=28.53$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.42$   $Ncr,y=9563360.00$   $\lambda^*_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.85$   $Ncr,z=5031000.00$   $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.02+0.01=0.04$   
Verifica ZZ:  $0.01+0.02+0.01=0.04$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.29$  - Classe 3  
Sollecitazioni:  $N=300.01$   $T_z=90.44$   $M_y=-76.54$   $T_y=111.10$   $M_z=44.68$   $M_x=3.31$   
Tensioni:  $\sigma_N=15.79$   $\sigma_M=212.72$   $\tau=3.83$   $\sigma_{max}=228.51$   
Tensioni:  $\sigma_N=15.79$   $\sigma_M=112.08$   $\tau=19.94$   $\tau_{max}=19.94$   
Tensioni:  $\sigma_N=15.79$   $\sigma_M=212.72$   $\tau=3.83$   $\sigma_{ID,max}=228.61$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X1=0.29$  - Classe 3  
Sollecitazioni:  $N=565.48$   $T_z=53.73$   $M_y=-45.16$   $T_y=58.47$   $M_z=23.29$   $M_x=8.95$

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Tensioni:  $\sigma_N=29.76$   $\sigma_M=119.30$   $\tau=10.37$   $\sigma_{max}=149.06$   
Tensioni:  $\sigma_N=29.76$   $\sigma_M=66.13$   $\tau=18.85$   $\tau_{max}=18.85$   
Tensioni:  $\sigma_N=29.76$   $\sigma_M=119.30$   $\tau=10.37$   $\sigma_{ID,max}=150.14$

Asta n. 3903 (-5611 -8671) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2551.03 My,Ed=-109.32 Mz,Ed=35.15  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979100.00  $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.04+0.02=0.10  
Verifica ZZ: 0.04+0.03+0.02=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2551.03 Tz=-700.87 My=-109.32 Ty=39.56 Mz=26.70 Mx=-3.97  
Tensioni:  $\sigma_N=-134.26$   $\sigma_M=-228.69$   $\tau=4.60$   $\sigma_{max}=-362.95$   
Tensioni:  $\sigma_N=-134.26$   $\sigma_M=47.29$   $\tau=75.74$   $\tau_{max}=75.74$   
Tensioni:  $\sigma_N=-134.26$   $\sigma_M=-228.69$   $\tau=4.60$   $\sigma_{ID,max}=363.04$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.16  
Sollecitazioni: N=-2548.22 Tz=-702.25 Ty=39.56 Mz=32.84 Mx=-3.97  
V,Ed=39.56 Vc,Rd,Red=14800.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-702.25 Vc,Rd,Red=22201.00 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=636.45 Tz=-157.99 My=-41.73 Ty=38.66 Mz=25.59 Mx=8.20  
Tensioni:  $\sigma_N=33.50$   $\sigma_M=118.48$   $\tau=9.51$   $\sigma_{max}=151.97$   
Tensioni:  $\sigma_N=33.50$   $\sigma_M=-45.34$   $\tau=25.55$   $\tau_{max}=25.55$   
Tensioni:  $\sigma_N=33.50$   $\sigma_M=118.48$   $\tau=9.51$   $\sigma_{ID,max}=152.86$

Asta n. 3903 (-8671 -10452) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2913.81 My,Ed=62.38 Mz,Ed=42.51  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68272000.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35915900.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.02+0.02=0.09  
Verifica ZZ: 0.05+0.02+0.02=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.11 - Classe 3  
Sollecitazioni: N=-2911.88 Tz=-324.89 My=62.38 Ty=45.98 Mz=42.51 Mx=-3.76  
Tensioni:  $\sigma_N=-153.26$   $\sigma_M=-185.71$   $\tau=4.36$   $\sigma_{max}=-338.97$   
Tensioni:  $\sigma_N=-153.26$   $\sigma_M=75.30$   $\tau=37.35$   $\tau_{max}=37.35$   
Tensioni:  $\sigma_N=-153.26$   $\sigma_M=-185.71$   $\tau=4.36$   $\sigma_{ID,max}=339.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.06  
Sollecitazioni: N=1426.91 Tz=-216.07 Ty=66.49 Mz=62.98 Mx=11.07  
V,Ed=66.49 Vc,Rd,Red=14738.10 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-216.07 Vc,Rd,Red=22107.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.11 - Classe 3  
Sollecitazioni: N=806.74 Tz=-92.88 My=15.97 Ty=47.19 Mz=48.54 Mx=12.86  
Tensioni:  $\sigma_N=42.46$   $\sigma_M=123.77$   $\tau=14.91$   $\sigma_{max}=166.23$   
Tensioni:  $\sigma_N=42.46$   $\sigma_M=-85.98$   $\tau=24.34$   $\tau_{max}=24.34$   
Tensioni:  $\sigma_N=42.46$   $\sigma_M=123.77$   $\tau=14.91$   $\sigma_{ID,max}=168.22$

Asta n. 3903 (-10452 -14605) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-3159.18 My,Ed=56.54 Mz,Ed=48.63



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Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.08

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=76611900.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.13$  Ncr,z=40303300.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.05+0.02+0.03=0.10

Verifica ZZ: 0.05+0.02+0.03=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-3159.18 T<sub>z</sub>=493.58 M<sub>y</sub>=56.54 T<sub>y</sub>=48.12 M<sub>z</sub>=43.78 M<sub>x</sub>=-3.58  
Tensioni:  $\sigma_N=-166.27$   $\sigma_M=-178.96$   $\tau=4.15$   $\sigma_{max}=-345.23$   
Tensioni:  $\sigma_N=-166.27$   $\sigma_M=-77.56$   $\tau=54.25$   $\tau_{max}=54.25$   
Tensioni:  $\sigma_N=-166.27$   $\sigma_M=-178.96$   $\tau=4.15$   $\sigma_{ID,max}=345.31$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=1539.32 T<sub>z</sub>=-182.92 T<sub>y</sub>=82.58 M<sub>z</sub>=80.31 M<sub>x</sub>=2.68  
V,Ed=82.58 Vc,Rd,Red=14812.00 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-182.92 Vc,Rd,Red=22218.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=788.64 T<sub>z</sub>=-92.63 M<sub>y</sub>=21.74 T<sub>y</sub>=48.62 M<sub>z</sub>=54.68 M<sub>x</sub>=12.82  
Tensioni:  $\sigma_N=41.51$   $\sigma_M=145.43$   $\tau=14.86$   $\sigma_{max}=186.93$   
Tensioni:  $\sigma_N=41.51$   $\sigma_M=-96.86$   $\tau=24.27$   $\tau_{max}=24.27$   
Tensioni:  $\sigma_N=41.51$   $\sigma_M=145.43$   $\tau=14.86$   $\sigma_{ID,max}=188.70$

Asta n. 3904 (-14611 -15290) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1458.43 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.07+0.01=0.08  
Verifica ZZ: 0.07=0.07
- Verifica Freccia massima carichi totali - CC 30  
 $f_{z,c}=0.00$  (L/32556)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1458.43 T<sub>z</sub>=7.08 M<sub>x</sub>=12.66  
N,Ed=-1458.43 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.07
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-1377.97 T<sub>z</sub>=7.08 M<sub>x</sub>=13.72  
V,Ed=7.08 Vc,Rd,Red=5544.06 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-866.68 M<sub>y</sub>=-1.95 M<sub>x</sub>=5.91  
Tensioni:  $\sigma_N=-96.73$   $\sigma_M=-12.45$   $\tau=23.56$   $\sigma_{max}=-109.17$   
Tensioni:  $\sigma_N=-96.73$   $\sigma_M=12.45$   $\tau=23.56$   $\tau_{max}=23.56$   
Tensioni:  $\sigma_N=-96.73$   $\sigma_M=-12.45$   $\tau=23.56$   $\sigma_{ID,max}=116.55$

Asta n. 3905 (-14607 -15258) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1460.34 My,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY: 0.07+0.01=0.08  
Verifica ZZ: 0.07=0.07
- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=0.00$  (L/32870)

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- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1460.34$   $T_z=7.07$   $M_x=-12.58$   
 $N,Ed=-1460.34$   $Nc,Rd=-20053.30$   $N,Ed/Nc,Rd=0.07$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-1378.59$   $T_z=7.07$   $M_x=-13.58$   
 $V,Ed=7.07$   $Vc,Rd,Red=5546.51$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.75$  - Classe 3  
Sollecitazioni:  $N=-836.76$   $M_y=-1.95$   $M_x=-5.80$   
Tensioni:  $\sigma_N=-93.39$   $\sigma_M=-12.42$   $\tau=23.12$   $\sigma_{max}=-105.81$   
Tensioni:  $\sigma_N=-93.39$   $\sigma_M=12.42$   $\tau=23.12$   $\tau_{max}=23.12$   
Tensioni:  $\sigma_N=-93.39$   $\sigma_M=-12.42$   $\tau=23.12$   $\sigma_{ID,max}=113.14$
- Asta n. 3906 (-2433 -15668) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-2410.93$   $M,Ed=3.82$   
Resistenze:  $Nc,Rd=28041.00$   $M,c,Rd=575.38$   $L=210.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=89.99$   $Ncr=21228.50$   $\lambda^*=1.18$   
Curva a:  $\Phi=1.30$   $\chi, \min=0.54$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.07, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.16+0.01=0.17$
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/6587)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/7597)  $f_{z,L}=0.01$  (L/14847)
  - Verifica a compressione [4.2.9] - CC 37 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-2410.93$   $T=7.26$   $M_x=4.67$   
 $N,Ed=-2410.93$   $Nc,Rd=-28041.00$   $N,Ed/Nc,Rd=0.09$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-1960.06$   $T=7.54$   $M_x=10.91$   
 $V,Ed=7.54$   $Vc,Rd,Red=10084.50$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=1.05$  - Classe 3  
Sollecitazioni:  $N=-1522.91$   $M=2.94$   $M_x=4.25$   
Tensioni:  $\sigma_N=-183.62$   $\sigma_M=-22.67$   $\tau=16.39$   $\sigma_{max}=-206.29$   
Tensioni:  $\sigma_N=-183.62$   $\sigma_M=-0.00$   $\tau=16.39$   $\tau_{max}=16.39$   
Tensioni:  $\sigma_N=-183.62$   $\sigma_M=-22.67$   $\tau=16.39$   $\sigma_{ID,max}=208.23$
- Asta n. 3907 (-2434 -15672) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-2423.36$   $M,Ed=3.82$   
Resistenze:  $Nc,Rd=28041.00$   $M,c,Rd=575.38$   $L=210.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=89.99$   $Ncr=21228.50$   $\lambda^*=1.18$   
Curva a:  $\Phi=1.30$   $\chi, \min=0.54$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.07, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.16+0.01=0.17$
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/6604)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/7632)  $f_{z,L}=0.01$  (L/14788)
  - Verifica a compressione [4.2.9] - CC 37 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-2423.36$   $T=7.27$   $M_x=-4.66$   
 $N,Ed=-2423.36$   $Nc,Rd=-28041.00$   $N,Ed/Nc,Rd=0.09$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $Xl=2.10$   
Sollecitazioni:  $N=-1928.54$   $T=7.55$   $M_x=-10.21$   
 $V,Ed=7.55$   $Vc,Rd,Red=10098.60$   $V,Ed/Vc,Rd,Red=0.00$

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- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=1.05$  - Classe 3  
Sollecitazioni:  $N=-1387.07$   $M=2.94$   $M_x=-4.30$   
Tensioni:  $\sigma_N=-167.24$   $\sigma_M=-22.72$   $\tau=16.61$   $\sigma_{max}=-189.96$   
Tensioni:  $\sigma_N=-167.24$   $\sigma_M=17.40$   $\tau=16.61$   $\tau_{max}=16.61$   
Tensioni:  $\sigma_N=-167.24$   $\sigma_M=-22.72$   $\tau=16.61$   $\sigma_{ID,max}=192.12$

Asta n. 3908 (-2428 -2516) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-328.94$   $M_y,Ed=10.09$   $M_z,Ed=-39.42$   
Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=31.65$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=10.73$   $N_{cr,y}=2340400.00$   $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.53$   $N_{cr,z}=1471160.00$   $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.01+0.05=0.06$   
Verifica ZZ:  $0.01+0.01+0.05=0.06$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3616)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3587)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=758.36$   $T_z=49.34$   $M_y=25.46$   $T_y=80.74$   $M_z=-44.87$   $M_x=12.04$   
Tensioni:  $\sigma_N=58.34$   $\sigma_M=279.43$   $\tau=29.19$   $\sigma_{max}=337.77$   
Tensioni:  $\sigma_N=58.34$   $\sigma_M=-78.81$   $\tau=45.25$   $\tau_{max}=45.25$   
Tensioni:  $\sigma_N=58.34$   $\sigma_M=279.43$   $\tau=29.19$   $\sigma_{ID,max}=341.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_1=0.17$   
Sollecitazioni:  $N=-261.78$   $T_z=31.86$   $T_y=76.74$   $M_z=-29.56$   $M_x=4.70$   
 $V,Ed=76.74$   $V_c,Rd,Red=10812.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=31.86$   $V_c,Rd,Red=14416.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-495.70$   $T_z=-23.80$   $M_y=10.68$   $T_y=55.40$   $M_z=-30.41$   $M_x=15.19$   
Tensioni:  $\sigma_N=-38.13$   $\sigma_M=-166.10$   $\tau=36.83$   $\sigma_{max}=-204.23$   
Tensioni:  $\sigma_N=-38.13$   $\sigma_M=-33.05$   $\tau=47.84$   $\tau_{max}=47.84$   
Tensioni:  $\sigma_N=-38.13$   $\sigma_M=-166.10$   $\tau=36.83$   $\sigma_{ID,max}=213.96$

Asta n. 3908 (-2516 -3070) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni:  $N,Ed=-494.46$   $M_y,Ed=29.71$   $M_z,Ed=-10.35$   
Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=33.31$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.21$   $N_{cr,y}=3665300.00$   $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.89$   $N_{cr,z}=1610860.00$   $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.02+0.01=0.04$   
Verifica ZZ:  $0.01+0.02+0.01=0.04$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3629)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3591)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=762.12$   $T_z=47.46$   $M_y=10.13$   $T_y=80.88$   $M_z=-19.32$   $M_x=12.04$   
Tensioni:  $\sigma_N=50.81$   $\sigma_M=93.02$   $\tau=23.05$   $\sigma_{max}=143.83$   
Tensioni:  $\sigma_N=50.81$   $\sigma_M=-23.24$   $\tau=38.88$   $\tau_{max}=38.88$   
Tensioni:  $\sigma_N=50.81$   $\sigma_M=93.02$   $\tau=23.05$   $\sigma_{ID,max}=149.26$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_1=0.21$   
Sollecitazioni:  $N=765.02$   $T_z=46.02$   $T_y=80.88$   $M_z=-2.17$   $M_x=12.04$   
 $V,Ed=80.88$   $V_c,Rd,Red=10850.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=46.02 Vc,Rd,Red=18084.40 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.33 - Classe 3  
Sollecitazioni: N=-490.94 Tz=-52.07 My=29.71 Ty=44.28 Mz=4.42 Mx=9.61  
Tensioni:  $\sigma_N=-32.73$   $\sigma_M=-91.07$   $\tau=18.40$   $\sigma_{max}=-123.80$   
Tensioni:  $\sigma_N=-32.73$   $\sigma_M=-68.12$   $\tau=27.07$   $\tau_{max}=27.07$   
Tensioni:  $\sigma_N=-32.73$   $\sigma_M=-88.51$   $\tau=25.46$   $\sigma_{ID,max}=129.01$

Asta n. 3908 (-3070 -5809) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni: N,Ed=-491.06 My,Ed=45.04 Mz,Ed=17.54  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=29.72  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.69$  Ncr,y=8811220.00  $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.22$  Ncr,z=4635320.00  $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.02+0.01=0.04  
Verifica ZZ: 0.01+0.02+0.01=0.03

- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.30 - Classe 3  
Sollecitazioni: N=771.78 Tz=42.50 My=-18.31 Ty=81.64 Mz=31.90 Mx=12.04  
Tensioni:  $\sigma_N=40.62$   $\sigma_M=93.83$   $\tau=13.96$   $\sigma_{max}=134.44$   
Tensioni:  $\sigma_N=40.62$   $\sigma_M=26.81$   $\tau=25.79$   $\tau_{max}=25.79$   
Tensioni:  $\sigma_N=40.62$   $\sigma_M=93.83$   $\tau=13.96$   $\sigma_{ID,max}=136.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-300.85 Tz=5.13 Ty=70.25 Mz=6.39 Mx=3.31  
V,Ed=70.25 Vc,Rd,Red=14806.40 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=5.13 Vc,Rd,Red=22209.60 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.30 - Classe 3  
Sollecitazioni: N=-487.09 Tz=-54.03 My=45.04 Ty=44.09 Mz=17.54 Mx=9.63  
Tensioni:  $\sigma_N=-25.64$   $\sigma_M=-107.45$   $\tau=11.16$   $\sigma_{max}=-133.09$   
Tensioni:  $\sigma_N=-25.64$   $\sigma_M=-65.95$   $\tau=17.55$   $\tau_{max}=17.55$   
Tensioni:  $\sigma_N=-25.64$   $\sigma_M=-107.45$   $\tau=11.16$   $\sigma_{ID,max}=134.48$

Asta n. 3908 (-5809 -8967) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2913.45 My,Ed=-83.33 Mz,Ed=20.30  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979060.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.03+0.01=0.09  
Verifica ZZ: 0.05+0.02+0.01=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2913.45 Tz=-641.68 My=-83.33 Ty=24.68 Mz=15.03 Mx=-4.00  
Tensioni:  $\sigma_N=-153.34$   $\sigma_M=-163.56$   $\tau=4.64$   $\sigma_{max}=-316.90$   
Tensioni:  $\sigma_N=-153.34$   $\sigma_M=26.63$   $\tau=69.77$   $\tau_{max}=69.77$   
Tensioni:  $\sigma_N=-153.34$   $\sigma_M=-163.56$   $\tau=4.64$   $\sigma_{ID,max}=317.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.19  
Sollecitazioni: N=402.41 Tz=-215.20 Ty=37.32 Mz=31.40 Mx=8.04  
V,Ed=37.32 Vc,Rd,Red=14764.80 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-215.20 Vc,Rd,Red=22147.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=457.86 Tz=-127.82 My=35.95 Ty=28.92 Mz=19.34 Mx=8.82  
Tensioni:  $\sigma_N=24.10$   $\sigma_M=96.58$   $\tau=10.23$   $\sigma_{max}=120.68$   
Tensioni:  $\sigma_N=24.10$   $\sigma_M=-34.27$   $\tau=23.20$   $\tau_{max}=23.20$

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Tensioni:  $\sigma_N=24.10$   $\sigma_M=96.58$   $\tau=10.23$   $\sigma_{ID,max}=121.98$

Asta n. 3908 (-8967 -15270) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-3349.24 My,Ed=42.14 Mz,Ed=29.30

Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=20.96

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=4.71$  Ncr,y=17718500.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=6.50$  Ncr,z=9321180.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.05+0.02+0.02=0.08

Verifica ZZ: 0.05+0.01+0.02=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-3349.24 Tz=94.04 My=42.14 Ty=39.10 Mz=21.10 Mx=-3.77

Tensioni:  $\sigma_N=-176.28$   $\sigma_M=-110.04$   $\tau=4.37$   $\sigma_{max}=-286.31$

Tensioni:  $\sigma_N=-176.28$   $\sigma_M=-37.38$   $\tau=13.92$   $\tau_{max}=13.92$

Tensioni:  $\sigma_N=-176.28$   $\sigma_M=-110.04$   $\tau=4.37$   $\sigma_{ID,max}=286.41$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.06

Sollecitazioni: N=930.17 Tz=-117.64 Ty=49.49 Mz=36.58 Mx=7.79

V,Ed=49.49 Vc,Rd,Red=14766.90 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-117.64 Vc,Rd,Red=22150.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.21 - Classe 3

Sollecitazioni: N=710.68 Tz=-57.92 My=17.59 Ty=45.07 Mz=43.22 Mx=13.60

Tensioni:  $\sigma_N=37.40$   $\sigma_M=115.60$   $\tau=15.76$   $\sigma_{max}=153.01$

Tensioni:  $\sigma_N=37.40$   $\sigma_M=-25.76$   $\tau=22.30$   $\tau_{max}=22.30$

Tensioni:  $\sigma_N=37.40$   $\sigma_M=115.60$   $\tau=15.76$   $\sigma_{ID,max}=155.43$

Asta n. 3910 (-15276 -15951) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1

Sollecitazioni: N,Ed=-1587.14 My,Ed=-2.64

Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$

$\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$

Kyy, Kyz, Kzy, Kzz=0.99, 0.60, 0.00, 0.99

Verifica YY: 0.08+0.01=0.09

Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 91

$f_{z,c}=0.00$  (L/31570)

- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1

Sollecitazioni: N=-1587.14 Tz=7.08 Mx=11.75

N,Ed=-1587.14 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49

Sollecitazioni: N=-1535.40 Tz=-7.08 Mx=12.88

V,Ed=-7.08 Vc,Rd,Red=5559.01 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.74 - Classe 3

Sollecitazioni: N=-932.89 My=-1.95 Mx=5.14

Tensioni:  $\sigma_N=-104.12$   $\sigma_M=-12.45$   $\tau=20.49$   $\sigma_{max}=-116.56$

Tensioni:  $\sigma_N=-104.12$   $\sigma_M=12.45$   $\tau=20.49$   $\tau_{max}=20.49$

Tensioni:  $\sigma_N=-104.12$   $\sigma_M=-12.45$   $\tau=20.49$   $\sigma_{ID,max}=121.85$

Asta n. 3911 (-15272 -15919) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1

Sollecitazioni: N,Ed=-1579.58 My,Ed=-2.63

Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$

$\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$

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Kyy, Kyz, Kzy, Kzz=0.99, 0.60, 0.00, 0.99  
Verifica YY: 0.08+0.01=0.08  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 104  
 $f_{z,g}=0.00$  (L/32528)
- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1579.58$   $T_z=7.07$   $M_x=-11.86$   
 $N,Ed=-1579.58$   $Nc,Rd=-20053.30$   $N,Ed/Nc,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=1.49$   
Sollecitazioni:  $N=-1530.91$   $T_z=-7.07$   $M_x=-12.98$   
 $V,Ed=-7.07$   $Vc,Rd,Red=5557.35$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.75$  - Classe 3  
Sollecitazioni:  $N=-890.92$   $M_y=-1.95$   $M_x=-5.21$   
Tensioni:  $\sigma_N=-99.43$   $\sigma_M=-12.42$   $\tau=20.79$   $\sigma_{max}=-111.86$   
Tensioni:  $\sigma_N=-99.43$   $\sigma_M=12.42$   $\tau=20.79$   $\tau_{max}=20.79$   
Tensioni:  $\sigma_N=-99.43$   $\sigma_M=-12.42$   $\tau=20.79$   $\sigma_{TD,max}=117.51$

Asta n. 3912 (-2428 -16263) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-1420.76$   $M,Ed=3.57$   
Resistenze:  $Nc,Rd=28041.00$   $M,c,Rd=575.38$   $L=206.21$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=88.21$   $Ncr=22093.10$   $\lambda^*=1.15$   
Curva a:  $\Phi=1.27$   $\chi_{,min}=0.56$   
Kyy, Kyz, Kzy, Kzz=1.02, ----, ----, ----  
Verifica: 0.09+0.01=0.10
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.04$  (L/5876)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.04$  (L/5868)  $f_{z,L}=0.01$  (L/16238)
- Verifica a compressione [4.2.9] - CC 37 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1420.76$   $T=6.93$   $M_x=7.25$   
 $N,Ed=-1420.76$   $Nc,Rd=-28041.00$   $N,Ed/Nc,Rd=0.05$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-69.42$   $T=7.19$   $M_x=12.89$   
 $V,Ed=7.19$   $Vc,Rd,Red=10044.10$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=1.03$  - Classe 3  
Sollecitazioni:  $N=-669.52$   $M=2.74$   $M_x=5.46$   
Tensioni:  $\sigma_N=-80.73$   $\sigma_M=-21.18$   $\tau=21.09$   $\sigma_{max}=-101.91$   
Tensioni:  $\sigma_N=-80.73$   $\sigma_M=-16.23$   $\tau=21.09$   $\tau_{max}=21.09$   
Tensioni:  $\sigma_N=-80.73$   $\sigma_M=-21.18$   $\tau=21.09$   $\sigma_{TD,max}=108.26$

Asta n. 3913 (-2429 -16267) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-1430.03$   $M,Ed=3.57$   
Resistenze:  $Nc,Rd=28041.00$   $M,c,Rd=575.38$   $L=206.21$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=88.21$   $Ncr=22093.10$   $\lambda^*=1.15$   
Curva a:  $\Phi=1.27$   $\chi_{,min}=0.56$   
Kyy, Kyz, Kzy, Kzz=1.02, ----, ----, ----  
Verifica: 0.09+0.01=0.10
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.04$  (L/5883)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.04$  (L/5875)  $f_{z,L}=0.01$  (L/16173)
- Verifica a compressione [4.2.9] - CC 37 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-1430.03$   $T=6.93$   $M_x=-7.23$

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N,Ed=-1430.03 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.05

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-57.02 T=7.20 M<sub>x</sub>=-12.13  
V,Ed=7.20 Vc,Rd,Red=10059.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.03 - Classe 3  
Sollecitazioni: N=-584.52 M=2.75 M<sub>x</sub>=-5.53  
Tensioni:  $\sigma_N=-70.48$   $\sigma_M=-21.23$   $\tau=21.35$   $\sigma_{max}=-91.71$   
Tensioni:  $\sigma_N=-70.48$   $\sigma_M=20.91$   $\tau=21.35$   $\tau_{max}=21.35$   
Tensioni:  $\sigma_N=-70.48$   $\sigma_M=-21.23$   $\tau=21.35$   $\sigma_{ID,max}=98.88$

Asta n. 3914 (-2420 -2510) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
Sollecitazioni: N,Ed=-172.60 My,Ed=28.81 Mz,Ed=-16.04  
Resistenze: Nc,Rd=43952.40 My,c,Rd=955.82 Mz,c,Rd=801.10 L=32.54  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=11.03$  Ncr,y=2213650.00  $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.92$  Ncr,z=1391480.00  $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.00+0.03+0.02=0.05  
Verifica ZZ: 0.00+0.02+0.02=0.05

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3601)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3490)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=767.72 T<sub>z</sub>=-56.38 M<sub>y</sub>=3.78 T<sub>y</sub>=50.85 M<sub>z</sub>=-26.65 M<sub>x</sub>=18.36  
Tensioni:  $\sigma_N=59.06$   $\sigma_M=125.84$   $\tau=44.51$   $\sigma_{max}=184.90$   
Tensioni:  $\sigma_N=59.06$   $\sigma_M=-11.69$   $\tau=54.62$   $\tau_{max}=54.62$   
Tensioni:  $\sigma_N=59.06$   $\sigma_M=124.17$   $\tau=50.12$   $\sigma_{ID,max}=202.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.33  
Sollecitazioni: N=259.14 T<sub>z</sub>=-133.57 M<sub>y</sub>=32.70 T<sub>y</sub>=6.61 M<sub>x</sub>=2.97  
V,Ed=6.61 Vc,Rd,Red=10835.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-133.57 Vc,Rd,Red=14447.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=259.33 T<sub>z</sub>=-58.07 M<sub>y</sub>=-26.23 T<sub>y</sub>=30.29 M<sub>z</sub>=-16.04 M<sub>x</sub>=12.26  
Tensioni:  $\sigma_N=19.95$   $\sigma_M=160.47$   $\tau=29.71$   $\sigma_{max}=180.42$   
Tensioni:  $\sigma_N=19.95$   $\sigma_M=56.42$   $\tau=38.64$   $\tau_{max}=38.64$   
Tensioni:  $\sigma_N=19.95$   $\sigma_M=160.47$   $\tau=29.71$   $\sigma_{ID,max}=187.62$

Asta n. 3914 (-2510 -3094) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni: N,Ed=-331.47 My,Ed=46.98 Mz,Ed=-3.80  
Resistenze: Nc,Rd=50714.30 My,c,Rd=1327.02 Mz,c,Rd=972.02 L=34.52  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=9.54$  Ncr,y=3413010.00  $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.40$  Ncr,z=1499990.00  $\lambda^*_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.03+0.00=0.04  
Verifica ZZ: 0.01+0.03+0.00=0.04

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3601)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3497)
- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.35 - Classe 3  
Sollecitazioni: N=264.06 T<sub>z</sub>=-136.00 M<sub>y</sub>=79.23 T<sub>y</sub>=6.61 M<sub>z</sub>=2.66 M<sub>x</sub>=2.98  
Tensioni:  $\sigma_N=17.60$   $\sigma_M=211.13$   $\tau=5.70$   $\sigma_{max}=228.73$

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Tensioni:  $\sigma_N=17.60$   $\sigma_M=-7.72$   $\tau=22.59$   $\tau_{max}=22.59$   
 Tensioni:  $\sigma_N=17.60$   $\sigma_M=211.13$   $\tau=5.70$   $\sigma_{TD,max}=228.95$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=260.03$   $T_z=-134.02$   $M_y=41.10$   $T_y=6.61$   $M_x=2.98$   
 $V,Ed=6.61$   $Vc,Rd,Red=10948.20$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-134.02$   $Vc,Rd,Red=18247.10$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.35$  - Classe 3  
 Sollecitazioni:  $N=427.81$   $T_z=-82.77$   $M_y=46.98$   $T_y=20.50$   $M_z=3.31$   $M_x=8.47$   
 Tensioni:  $\sigma_N=28.52$   $\sigma_M=131.22$   $\tau=16.22$   $\sigma_{max}=159.74$   
 Tensioni:  $\sigma_N=28.52$   $\sigma_M=-9.60$   $\tau=26.50$   $\tau_{max}=26.50$   
 Tensioni:  $\sigma_N=28.52$   $\sigma_M=131.22$   $\tau=16.22$   $\sigma_{TD,max}=162.19$

Asta n. 3914 (-3094 -6033) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni:  $N,Ed=-327.65$   $M_y,Ed=71.80$   $M_z,Ed=9.54$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=30.92$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.96$   $Ncr,y=8139710.00$   $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.59$   $Ncr,z=4282070.00$   $\lambda^*_z=0.13$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.01=0.04$   
 Verifica ZZ:  $0.01+0.03+0.01=0.04$

- Verifica in termini tensionali [4.2.4] - CC 60 SLU  $Xl=0.31$  - Classe 3  
 Sollecitazioni:  $N=269.64$   $T_z=-138.77$   $M_y=121.72$   $T_y=6.60$   $M_z=4.56$   $M_x=3.05$   
 Tensioni:  $\sigma_N=14.19$   $\sigma_M=203.68$   $\tau=3.54$   $\sigma_{max}=217.87$   
 Tensioni:  $\sigma_N=14.19$   $\sigma_M=-8.07$   $\tau=17.62$   $\tau_{max}=17.62$   
 Tensioni:  $\sigma_N=14.19$   $\sigma_M=203.68$   $\tau=3.54$   $\sigma_{TD,max}=217.96$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 95 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=272.52$   $T_z=-101.58$   $M_y=65.21$   $M_x=1.50$   
 $V,Ed=-101.58$   $Vc,Rd,Red=22233.50$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.31$  - Classe 3  
 Sollecitazioni:  $N=431.76$   $T_z=-85.00$   $M_y=71.80$   $T_y=20.26$   $M_z=9.54$   $M_x=8.50$   
 Tensioni:  $\sigma_N=22.72$   $\sigma_M=134.02$   $\tau=9.86$   $\sigma_{max}=156.74$   
 Tensioni:  $\sigma_N=22.72$   $\sigma_M=-16.90$   $\tau=18.48$   $\tau_{max}=18.48$   
 Tensioni:  $\sigma_N=22.72$   $\sigma_M=134.02$   $\tau=9.86$   $\sigma_{TD,max}=157.67$

Asta n. 3914 (-6033 -9174) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2902.74$   $M_y,Ed=79.04$   $M_z,Ed=0.42$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=21.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$   $Ncr,y=17068200.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$   $Ncr,z=8979060.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.03+0.00=0.07$   
 Verifica ZZ:  $0.05+0.02+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.21$  - Classe 3  
 Sollecitazioni:  $N=-1514.42$   $T_z=-211.15$   $M_y=72.76$   $T_y=4.69$   $M_z=5.92$   $M_x=1.08$   
 Tensioni:  $\sigma_N=-79.71$   $\sigma_M=-128.22$   $\tau=1.26$   $\sigma_{max}=-207.92$   
 Tensioni:  $\sigma_N=-79.71$   $\sigma_M=-10.49$   $\tau=22.69$   $\tau_{max}=22.69$   
 Tensioni:  $\sigma_N=-79.71$   $\sigma_M=-128.22$   $\tau=1.26$   $\sigma_{TD,max}=207.94$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.21$   
 Sollecitazioni:  $N=-2898.89$   $T_z=-420.04$   $M_y=79.04$   $T_y=-1.67$   $M_x=-1.49$   
 $V,Ed=-1.67$   $Vc,Rd,Red=14822.50$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-420.04$   $Vc,Rd,Red=22233.70$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3



Sollecitazioni:  $N=445.11$   $T_z=130.31$   $M_y=58.72$   $T_y=12.94$   $M_z=10.47$   $M_x=7.80$

Tensioni:  $\sigma_N=23.43$   $\sigma_M=115.01$   $\tau=9.04$   $\sigma_{max}=138.44$

Tensioni:  $\sigma_N=23.43$   $\sigma_M=18.55$   $\tau=22.27$   $\tau_{max}=22.27$

Tensioni:  $\sigma_N=23.43$   $\sigma_M=115.01$   $\tau=9.04$   $\sigma_{ID,max}=139.32$

Asta n. 3914 (-9174 -15931) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-3357.06$   $M_y, Ed=69.61$   $M_z, Ed=0.41$

Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=21.15$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=4.76$   $N_{cr,y}=17396200.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=6.56$   $N_{cr,z}=9151630.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.05+0.03+0.00=0.08$

Verifica ZZ:  $0.05+0.02+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1=0.00$  - Classe 3

Sollecitazioni:  $N=-1375.24$   $T_z=215.04$   $M_y=62.18$   $T_y=9.98$   $M_z=6.02$   $M_x=1.23$

Tensioni:  $\sigma_N=-72.38$   $\sigma_M=-111.53$   $\tau=1.43$   $\sigma_{max}=-183.92$

Tensioni:  $\sigma_N=-72.38$   $\sigma_M=10.67$   $\tau=23.26$   $\tau_{max}=23.26$

Tensioni:  $\sigma_N=-72.38$   $\sigma_M=-111.53$   $\tau=1.43$   $\sigma_{ID,max}=183.93$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X1=0.00$

Sollecitazioni:  $N=-3357.06$   $T_z=275.73$   $M_y=69.61$   $T_y=2.93$   $M_x=-1.23$

$V, Ed=2.93$   $V_c, Rd, Red=14824.80$   $V, Ed/V_c, Rd, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V, Ed=275.73$   $V_c, Rd, Red=22237.20$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.21$  - Classe 3

Sollecitazioni:  $N=655.83$   $T_z=116.72$   $M_y=23.14$   $T_y=22.95$   $M_z=24.76$   $M_x=10.95$

Tensioni:  $\sigma_N=34.52$   $\sigma_M=87.09$   $\tau=12.69$   $\sigma_{max}=121.61$

Tensioni:  $\sigma_N=34.52$   $\sigma_M=43.85$   $\tau=24.54$   $\tau_{max}=24.54$

Tensioni:  $\sigma_N=34.52$   $\sigma_M=87.09$   $\tau=12.69$   $\sigma_{ID,max}=123.58$

Asta n. 3917 (-2420 -8511) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1

Sollecitazioni:  $N, Ed=-1037.39$   $M, Ed=2.09$

Resistenze:  $N_c, Rd=28041.00$   $M, c, Rd=575.38$   $L=160.80$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$

$\lambda=68.79$   $N_{cr}=36330.20$   $\lambda^*=0.90$

Curva a:  $\Phi=0.98$   $\chi_{min}=0.73$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.98, \text{----}, \text{----}, \text{----}$

Verifica:  $0.04+0.00=0.04$

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.03$  (L/5588)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.03$  (L/5625)  $f_{z,L}=0.00$  (L/35753)

- Verifica a compressione [4.2.9] - CC 37 SLU  $X1=0.00$  - Classe 1

Sollecitazioni:  $N=-1037.39$   $T=5.20$   $M_x=8.76$

$N, Ed=-1037.39$   $N_c, Rd=-28041.00$   $N, Ed/N_c, Rd=0.04$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X1=0.00$

Sollecitazioni:  $N=-423.63$   $T=5.40$   $M_x=11.66$

$V, Ed=5.40$   $V_c, Rd, Red=10069.10$   $V, Ed/V_c, Rd, Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X1=0.80$  - Classe 3

Sollecitazioni:  $N=-609.93$   $M=1.61$   $M_x=5.33$

Tensioni:  $\sigma_N=-73.54$   $\sigma_M=-12.41$   $\tau=20.57$   $\sigma_{max}=-85.95$

Tensioni:  $\sigma_N=-73.54$   $\sigma_M=-0.00$   $\tau=20.57$   $\tau_{max}=20.57$

Tensioni:  $\sigma_N=-73.54$   $\sigma_M=-12.41$   $\tau=20.57$   $\sigma_{ID,max}=93.04$

Asta n. 3918 (-2421 -8512) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 1

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Sollecitazioni: N,Ed=-1047.38 M,Ed=2.09  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=160.80  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=68.78$  Ncr=36331.80  $\lambda^*=0.90$   
Curva a:  $\Phi=0.98$   $\chi_{\min}=0.73$   
Kyy, Kyz, Kzy, Kzz=0.98, ----, ----, ----  
Verifica: 0.04+0.00=0.04

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/5583)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/5639)  $f_{z,L}=0.00$  (L/35450)
- Verifica a compressione [4.2.9] - CC 37 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1047.38 T=5.21  $M_x=-8.79$   
N,Ed=-1047.38 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.04
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=1.61  
Sollecitazioni: N=-375.85 T=5.41  $M_x=-11.01$   
V,Ed=5.41 Vc,Rd,Red=10082.30 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.80 - Classe 3  
Sollecitazioni: N=-535.64 M=1.61  $M_x=-4.95$   
Tensioni:  $\sigma_N=-64.58$   $\sigma_M=-12.43$   $\tau=19.09$   $\sigma_{\max}=-77.01$   
Tensioni:  $\sigma_N=-64.58$   $\sigma_M=12.24$   $\tau=19.09$   $\tau_{\max}=19.09$   
Tensioni:  $\sigma_N=-64.58$   $\sigma_M=-12.43$   $\tau=19.09$   $\sigma_{ID,\max}=83.82$

Asta n. 3919 (-15937 -16611) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1676.12 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08
- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,L}=0.00$  (L/31568)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1676.12 T<sub>z</sub>=7.07  $M_x=7.86$   
N,Ed=-1676.12 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-1640.45 T<sub>z</sub>=7.07  $M_x=9.17$   
V,Ed=7.07 Vc,Rd,Red=5625.39 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-973.25 My=-1.95  $M_x=5.34$   
Tensioni:  $\sigma_N=-108.62$   $\sigma_M=-12.44$   $\tau=21.28$   $\sigma_{\max}=-121.06$   
Tensioni:  $\sigma_N=-108.62$   $\sigma_M=12.44$   $\tau=21.28$   $\tau_{\max}=21.28$   
Tensioni:  $\sigma_N=-108.62$   $\sigma_M=-12.44$   $\tau=21.28$   $\sigma_{ID,\max}=126.55$

Asta n. 3920 (-15933 -16579) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1667.31 My,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08
- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,L}=0.00$  (L/32526)

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- Verifica a compressione [4.2.9] - CC 45 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1667.31$   $T_z=7.07$   $M_x=-8.09$   
 $N,Ed=-1667.31$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_1=0.00$   
Sollecitazioni:  $N=-1634.82$   $T_z=7.07$   $M_x=-9.39$   
 $V,Ed=7.07$   $V_c,Rd,Red=5621.37$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.75$  - Classe 3  
Sollecitazioni:  $N=-923.47$   $M_y=-1.95$   $M_x=-6.17$   
Tensioni:  $\sigma_N=-103.07$   $\sigma_M=-12.42$   $\tau=24.61$   $\sigma_{max}=-115.49$   
Tensioni:  $\sigma_N=-103.07$   $\sigma_M=12.42$   $\tau=24.61$   $\tau_{max}=24.61$   
Tensioni:  $\sigma_N=-103.07$   $\sigma_M=-12.42$   $\tau=24.61$   $\sigma_{ID,max}=123.10$

Asta n. 3924 (-2417 -2500) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1719.16$   $M_y,Ed=-91.46$   $M_z,Ed=0.38$   
Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=33.85$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=11.48$   $N_{cr,y}=2045940.00$   $\lambda'_y=0.15$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.47$   $N_{cr,z}=1286060.00$   $\lambda'_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.04+0.07+0.00=0.11$   
Verifica ZZ:  $0.04+0.06+0.00=0.10$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3785)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3943)  $f_{z,L}=0.00$  (L/33800)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-1294.64$   $T_z=-261.20$   $M_y=-61.39$   $T_y=46.08$   $M_z=-25.34$   $M_x=17.02$   
Tensioni:  $\sigma_N=-99.59$   $\sigma_M=-324.08$   $\tau=41.26$   $\sigma_{max}=-423.67$   
Tensioni:  $\sigma_N=-99.59$   $\sigma_M=89.12$   $\tau=81.40$   $\tau_{max}=81.40$   
Tensioni:  $\sigma_N=-99.59$   $\sigma_M=-324.08$   $\tau=41.26$   $\sigma_{ID,max}=429.66$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_1=0.34$   
Sollecitazioni:  $N=-1714.98$   $T_z=-422.75$   $M_y=51.28$   $T_y=-1.12$   
 $V,Ed=-1.12$   $V_c,Rd=10875.70$   $V,Ed/V_c,Rd=0.00$
- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-422.75$   $V_c,Rd=14501.00$   $V,Ed/V_c,Rd=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-884.27$   $T_z=-187.28$   $M_y=-45.08$   $T_y=-9.84$   $M_z=5.34$   $M_x=-4.40$   
Tensioni:  $\sigma_N=-68.02$   $\sigma_M=-181.97$   $\tau=10.67$   $\sigma_{max}=-249.99$   
Tensioni:  $\sigma_N=-68.02$   $\sigma_M=18.77$   $\tau=39.44$   $\tau_{max}=39.44$   
Tensioni:  $\sigma_N=-68.02$   $\sigma_M=-181.97$   $\tau=10.67$   $\sigma_{ID,max}=250.67$

Asta n. 3924 (-2500 -3103) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1714.98$   $M_y,Ed=202.39$   $M_z,Ed=-0.23$   
Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=35.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.85$   $N_{cr,y}=3202240.00$   $\lambda'_y=0.13$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.86$   $N_{cr,z}=1407350.00$   $\lambda'_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.12+0.00=0.15$   
Verifica ZZ:  $0.03+0.09+0.00=0.13$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3774)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3933)  $f_{z,L}=0.00$  (L/15410)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.36$  - Classe 3

Sollecitazioni:  $N=-1285.71$   $T_z=-265.57$   $M_y=121.58$   $T_y=46.39$   $M_z=6.80$   $M_x=17.02$

Tensioni:  $\sigma_N=-85.71$   $\sigma_M=-333.41$   $\tau=32.56$   $\sigma_{max}=-419.12$

Tensioni:  $\sigma_N=-85.71$   $\sigma_M=-19.71$   $\tau=65.55$   $\tau_{max}=65.55$

Tensioni:  $\sigma_N=-85.71$   $\sigma_M=-333.41$   $\tau=32.56$   $\sigma_{ID,max}=422.90$

- Verifica a taglio dir. Z [4.2.16] - CC 54 SLU  $X_l=0.36$

Sollecitazioni:  $N=-1709.90$   $T_z=-425.24$   $M_y=202.39$

$V,Ed=-425.24$   $V_c,Rd=18300.50$   $V,Ed/V_c,Rd=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.36$  - Classe 3

Sollecitazioni:  $N=-876.46$   $T_z=-191.84$   $M_y=107.80$   $T_y=-9.60$   $M_z=-1.44$   $M_x=-4.40$

Tensioni:  $\sigma_N=-58.43$   $\sigma_M=-279.67$   $\tau=8.43$   $\sigma_{max}=-338.10$

Tensioni:  $\sigma_N=-58.43$   $\sigma_M=-4.19$   $\tau=32.26$   $\tau_{max}=32.26$

Tensioni:  $\sigma_N=-58.43$   $\sigma_M=-279.67$   $\tau=8.43$   $\sigma_{ID,max}=338.41$

Asta n. 3924 (-3103 -5974) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-1709.90$   $M_y,Ed=331.94$   $M_z,Ed=0.97$

Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=30.37$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=6.83$   $N_{cr,y}=8441080.00$   $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=9.42$   $N_{cr,z}=4440600.00$   $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.03+0.12+0.00=0.15$

Verifica ZZ:  $0.03+0.10+0.00=0.13$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.30$  - Classe 3

Sollecitazioni:  $N=-1767.97$   $T_z=-359.91$   $M_y=268.52$   $T_y=3.12$   $M_z=1.19$

Tensioni:  $\sigma_N=-93.05$   $\sigma_M=-431.37$   $\tau=0.00$   $\sigma_{max}=-524.42$

Tensioni:  $\sigma_N=-93.05$   $\sigma_M=2.11$   $\tau=36.53$   $\tau_{max}=36.53$

Tensioni:  $\sigma_N=-93.05$   $\sigma_M=-431.37$   $\tau=0.00$   $\sigma_{ID,max}=524.42$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.30$

Sollecitazioni:  $N=-1704.41$   $T_z=-427.96$   $M_y=331.94$   $T_y=2.36$

$V,Ed=2.36$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]

$V,Ed=-427.96$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.30$  - Classe 3

Sollecitazioni:  $N=-871.32$   $T_z=-195.26$   $M_y=166.30$   $T_y=10.30$   $M_z=4.50$   $M_x=-4.50$

Tensioni:  $\sigma_N=-45.86$   $\sigma_M=-274.77$   $\tau=5.21$   $\sigma_{max}=-320.63$

Tensioni:  $\sigma_N=-45.86$   $\sigma_M=7.97$   $\tau=25.03$   $\tau_{max}=25.03$

Tensioni:  $\sigma_N=-45.86$   $\sigma_M=-274.77$   $\tau=5.21$   $\sigma_{ID,max}=320.76$

Asta n. 3924 (-5974 -9431) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni:  $N,Ed=-3016.34$   $M_y,Ed=222.23$   $M_z,Ed=-1.21$

Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.11$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=5.20$   $N_{cr,y}=14580900.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=7.17$   $N_{cr,z}=7670600.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.05+0.08+0.00=0.13$

Verifica ZZ:  $0.05+0.07+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.19$  - Classe 3

Sollecitazioni:  $N=-4159.98$   $T_z=96.50$   $M_y=149.59$   $T_y=-6.89$   $M_z=-1.09$

Tensioni:  $\sigma_N=-218.95$   $\sigma_M=-241.19$   $\tau=0.00$   $\sigma_{max}=-460.13$

Tensioni:  $\sigma_N=-218.95$   $\sigma_M=-1.93$   $\tau=9.80$   $\tau_{max}=9.80$

Tensioni:  $\sigma_N=-218.95$   $\sigma_M=-241.19$   $\tau=0.00$   $\sigma_{ID,max}=460.13$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.00$

Sollecitazioni:  $N=-1041.43$   $T_z=615.22$   $M_y=275.94$   $T_y=-2.27$

$V,Ed=-2.27$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]

$V,Ed=615.22$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-430.40$   $T_z=377.79$   $M_y=141.10$   $T_y=-5.18$   $M_z=-5.90$   $M_x=3.76$   
 Tensioni:  $\sigma_N=-22.65$   $\sigma_M=-237.36$   $\tau=4.36$   $\sigma_{max}=-260.01$   
 Tensioni:  $\sigma_N=-22.65$   $\sigma_M=-10.45$   $\tau=42.71$   $\tau_{max}=42.71$   
 Tensioni:  $\sigma_N=-22.65$   $\sigma_M=-237.36$   $\tau=4.36$   $\sigma_{ID,max}=260.12$

Asta n. 3924 (-9431 -16591) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4713.01$   $M_y,Ed=137.07$   $M_z,Ed=0.49$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=21.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$   $N_{cr,y}=17068200.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$   $N_{cr,z}=8979070.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.07+0.05+0.00=0.12$   
 Verifica ZZ:  $0.07+0.04+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=102.12$   $T_z=253.77$   $M_y=80.06$   $T_y=31.92$   $M_z=31.91$   $M_x=14.73$   
 Tensioni:  $\sigma_N=5.37$   $\sigma_M=192.48$   $\tau=17.08$   $\sigma_{max}=197.86$   
 Tensioni:  $\sigma_N=5.37$   $\sigma_M=56.52$   $\tau=42.84$   $\tau_{max}=42.84$   
 Tensioni:  $\sigma_N=5.37$   $\sigma_M=192.48$   $\tau=17.08$   $\sigma_{ID,max}=200.06$

- Verifica a taglio dir. Y [4.2.16] - CC 45 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-4713.01$   $T_z=574.69$   $M_y=137.07$   $T_y=4.41$   
 $V,Ed=4.41$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=574.69$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=307.69$   $T_z=291.41$   $M_y=54.89$   $T_y=6.31$   $M_z=-6.62$   $M_x=3.63$   
 Tensioni:  $\sigma_N=16.19$   $\sigma_M=101.08$   $\tau=4.21$   $\sigma_{max}=117.27$   
 Tensioni:  $\sigma_N=16.19$   $\sigma_M=-11.72$   $\tau=33.79$   $\tau_{max}=33.79$   
 Tensioni:  $\sigma_N=16.19$   $\sigma_M=101.08$   $\tau=4.21$   $\sigma_{ID,max}=117.50$

Asta n. 3925 (-15970 -16611) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1666.95$   $M_y,Ed=-2.64$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $N_{cr,y}=43925.10$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $N_{cr,z}=43925.10$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.00, 0.60, 0.00, 1.00$   
 Verifica YY:  $0.08+0.01=0.09$   
 Verifica ZZ:  $0.08=0.08$

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.00$  (L/32556)

- Verifica a compressione [4.2.9] - CC 45 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-1666.95$   $T_z=7.08$   $M_x=-7.93$   
 $N,Ed=-1666.95$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.08$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_1=1.49$   
 Sollecitazioni:  $N=-1634.33$   $T_z=-7.08$   $M_x=-9.26$   
 $V,Ed=-7.08$   $V_c,Rd,Red=5623.76$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.75$  - Classe 3  
 Sollecitazioni:  $N=-879.78$   $M_y=-1.95$   $M_x=-5.63$   
 Tensioni:  $\sigma_N=-98.19$   $\sigma_M=-12.44$   $\tau=22.46$   $\sigma_{max}=-110.64$   
 Tensioni:  $\sigma_N=-98.19$   $\sigma_M=12.44$   $\tau=22.46$   $\tau_{max}=22.46$   
 Tensioni:  $\sigma_N=-98.19$   $\sigma_M=-12.44$   $\tau=22.46$   $\sigma_{ID,max}=117.27$

Asta n. 3926 (-15966 -16579) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1

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Sollecitazioni: N,Ed=-1677.92 My,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr, $y=43925.10$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr, $z=43925.10$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,L}=0.00$  (L/31567)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1677.92 T<sub>z</sub>=7.07 M<sub>x</sub>=7.88  
N,Ed=-1677.92 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1640.41 T<sub>z</sub>=-7.07 M<sub>x</sub>=9.12  
V,Ed=-7.07 Vc,Rd,Red=5626.22 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.74 - Classe 3  
Sollecitazioni: N=-833.45 M<sub>y</sub>=-1.95 M<sub>x</sub>=6.52  
Tensioni:  $\sigma_N=-93.02$   $\sigma_M=-12.44$   $\tau=25.97$   $\sigma_{max}=-105.46$   
Tensioni:  $\sigma_N=-93.02$   $\sigma_M=12.44$   $\tau=25.97$   $\tau_{max}=25.97$   
Tensioni:  $\sigma_N=-93.02$   $\sigma_M=-12.44$   $\tau=25.97$   $\sigma_{ID,max}=114.66$

Asta n. 3927 (-2423 -8512) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-716.65 M,Ed=2.17  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=160.71  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, ----, ----$   
 $\lambda=68.75$  Ncr=36373.40  $\lambda^*=0.90$   
Curva a:  $\Phi=0.98$   $\chi_{min}=0.73$   
Kyy, Kyz, Kzy, Kzz=0.97, ----, ----, ----  
Verifica: 0.03+0.00=0.03
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/5579)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/5579)  $f_{z,L}=0.00$  (L/36633)
- Verifica a trazione [4.2.5] - CC 37 SLU Xl=1.61 - Classe 1  
Sollecitazioni: N=790.88 T=5.20 M<sub>x</sub>=6.94  
N,Ed=790.88 Npl,Rd=28041.00 Nu,Rd=30454.90 N,Ed/Nt,Rd=0.03
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=1.61  
Sollecitazioni: N=-381.83 T=5.40 M<sub>x</sub>=11.09  
V,Ed=5.40 Vc,Rd,Red=10080.80 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.80 - Classe 3  
Sollecitazioni: N=-667.47 M=1.61 M<sub>x</sub>=4.70  
Tensioni:  $\sigma_N=-80.48$   $\sigma_M=-12.42$   $\tau=18.16$   $\sigma_{max}=-92.90$   
Tensioni:  $\sigma_N=-80.48$   $\sigma_M=12.23$   $\tau=18.16$   $\tau_{max}=18.16$   
Tensioni:  $\sigma_N=-80.48$   $\sigma_M=-12.42$   $\tau=18.16$   $\sigma_{ID,max}=98.08$

Asta n. 3928 (-2422 -8511) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-710.10 M,Ed=2.17  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=160.76  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, ----, ----$   
 $\lambda=68.77$  Ncr=36351.20  $\lambda^*=0.90$   
Curva a:  $\Phi=0.98$   $\chi_{min}=0.73$   
Kyy, Kyz, Kzy, Kzz=0.97, ----, ----, ----  
Verifica: 0.03+0.00=0.03
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/5568)

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- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/5605)  $f_{z,L}=0.00$  (L/35838)
- Verifica a trazione [4.2.5] - CC 37 SLU  $X_1=1.61$  - Classe 1  
 Sollecitazioni:  $N=786.36$   $T=5.20$   $M_x=-6.92$   
 $N,Ed=786.36$   $N_{pl},Rd=28041.00$   $N_u,Rd=30454.90$   $N,Ed/N_t,Rd=0.03$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-420.37$   $T=5.40$   $M_x=-11.71$   
 $V,Ed=5.40$   $V_c,Rd,Red=10068.10$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.80$  - Classe 3  
 Sollecitazioni:  $N=-706.31$   $M=1.61$   $M_x=-5.20$   
 Tensioni:  $\sigma_N=-85.16$   $\sigma_M=-12.41$   $\tau=20.08$   $\sigma_{max}=-97.57$   
 Tensioni:  $\sigma_N=-85.16$   $\sigma_M=9.51$   $\tau=20.08$   $\tau_{max}=20.08$   
 Tensioni:  $\sigma_N=-85.16$   $\sigma_M=-12.41$   $\tau=20.08$   $\sigma_{ID,max}=103.58$

Asta n. 3930 (-2423 -2513) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-658.72$   $M_y,Ed=-24.30$   $M_z,Ed=14.54$   
 Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=32.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=11.01$   $N_{cr,y}=2221810.00$   $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.89$   $N_{cr,z}=1396610.00$   $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.02+0.02=0.05$   
 Verifica ZZ:  $0.01+0.02+0.02=0.05$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3584)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3493)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-658.72$   $T_z=-103.54$   $M_y=-24.30$   $T_y=-23.22$   $M_z=14.54$   $M_x=-10.56$   
 Tensioni:  $\sigma_N=-50.67$   $\sigma_M=-147.32$   $\tau=25.59$   $\sigma_{max}=-198.00$   
 Tensioni:  $\sigma_N=-50.67$   $\sigma_M=51.14$   $\tau=41.50$   $\tau_{max}=41.50$   
 Tensioni:  $\sigma_N=-50.67$   $\sigma_M=-147.32$   $\tau=25.59$   $\sigma_{ID,max}=202.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_1=0.32$   
 Sollecitazioni:  $N=217.80$   $T_z=-122.54$   $M_y=32.28$   $T_y=13.33$   $M_x=3.45$   
 $V,Ed=13.33$   $V_c,Rd,Red=10829.10$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-122.54$   $V_c,Rd,Red=14438.80$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=457.52$   $T_z=-69.45$   $M_y=-25.78$   $T_y=21.18$   $M_z=-10.96$   $M_x=9.40$   
 Tensioni:  $\sigma_N=35.19$   $\sigma_M=137.44$   $\tau=22.80$   $\sigma_{max}=172.63$   
 Tensioni:  $\sigma_N=35.19$   $\sigma_M=38.55$   $\tau=33.47$   $\tau_{max}=33.47$   
 Tensioni:  $\sigma_N=35.19$   $\sigma_M=137.44$   $\tau=22.80$   $\sigma_{ID,max}=177.09$

Asta n. 3930 (-2513 -3097) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-654.85$   $M_y,Ed=46.37$   $M_z,Ed=6.99$   
 Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=34.46$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.53$   $N_{cr,y}=3424880.00$   $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.37$   $N_{cr,z}=1505200.00$   $\lambda^*_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.01=0.05$   
 Verifica ZZ:  $0.01+0.02+0.01=0.04$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3613)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3516)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.34$  - Classe 3  
 Sollecitazioni:  $N=222.71$   $T_z=-124.97$   $M_y=74.93$   $T_y=13.32$   $M_z=3.83$   $M_x=3.46$   
 Tensioni:  $\sigma_N=14.85$   $\sigma_M=204.22$   $\tau=6.62$   $\sigma_{max}=219.07$   
 Tensioni:  $\sigma_N=14.85$   $\sigma_M=-11.09$   $\tau=22.14$   $\tau_{max}=22.14$   
 Tensioni:  $\sigma_N=14.85$   $\sigma_M=204.22$   $\tau=6.62$   $\sigma_{ID,max}=219.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.13$   
 Sollecitazioni:  $N=219.58$   $T_z=-123.43$   $M_y=47.70$   $T_y=13.32$   $M_x=3.46$   
 $V,Ed=13.32$   $Vc,Rd,Red=10943.00$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-123.43$   $Vc,Rd,Red=18238.40$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.34$  - Classe 3  
 Sollecitazioni:  $N=465.05$   $T_z=-75.48$   $M_y=41.06$   $T_y=18.33$   $M_z=3.03$   $M_x=8.37$   
 Tensioni:  $\sigma_N=31.00$   $\sigma_M=115.15$   $\tau=16.03$   $\sigma_{max}=146.15$   
 Tensioni:  $\sigma_N=31.00$   $\sigma_M=-8.78$   $\tau=25.41$   $\tau_{max}=25.41$   
 Tensioni:  $\sigma_N=31.00$   $\sigma_M=115.15$   $\tau=16.03$   $\sigma_{ID,max}=148.77$

Asta n. 3930 (-3097 -6035) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-650.10$   $M_y,Ed=80.10$   $M_z,Ed=-8.62$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=30.92$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.96$   $Ncr,y=8139730.00$   $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.59$   $Ncr,z=4282070.00$   $\lambda^*_z=0.13$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.00=0.04$   
 Verifica ZZ:  $0.01+0.02+0.00=0.04$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.31$  - Classe 3  
 Sollecitazioni:  $N=228.28$   $T_z=-127.75$   $M_y=114.02$   $T_y=13.29$   $M_z=7.80$   $M_x=3.52$   
 Tensioni:  $\sigma_N=12.01$   $\sigma_M=197.94$   $\tau=4.09$   $\sigma_{max}=209.95$   
 Tensioni:  $\sigma_N=12.01$   $\sigma_M=-13.82$   $\tau=17.05$   $\tau_{max}=17.05$   
 Tensioni:  $\sigma_N=12.01$   $\sigma_M=197.94$   $\tau=4.09$   $\sigma_{ID,max}=210.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.31$   
 Sollecitazioni:  $N=508.61$   $T_z=-34.61$   $M_y=36.51$   $T_y=-2.80$   $M_x=-1.93$   
 $V,Ed=-2.80$   $Vc,Rd,Red=14818.60$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-34.61$   $Vc,Rd,Red=22227.90$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.31$  - Classe 3  
 Sollecitazioni:  $N=468.41$   $T_z=-76.76$   $M_y=62.05$   $T_y=18.13$   $M_z=8.58$   $M_x=8.40$   
 Tensioni:  $\sigma_N=24.65$   $\sigma_M=116.49$   $\tau=9.73$   $\sigma_{max}=141.14$   
 Tensioni:  $\sigma_N=24.65$   $\sigma_M=-15.20$   $\tau=17.53$   $\tau_{max}=17.53$   
 Tensioni:  $\sigma_N=24.65$   $\sigma_M=116.49$   $\tau=9.73$   $\sigma_{ID,max}=142.15$

Asta n. 3930 (-6035 -9177) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2747.66$   $M_y,Ed=78.84$   $M_z,Ed=0.18$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=21.36$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$   $Ncr,y=17068100.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$   $Ncr,z=8979040.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.03+0.00=0.07$   
 Verifica ZZ:  $0.04+0.02+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.21$  - Classe 3  
 Sollecitazioni:  $N=-1410.50$   $T_z=-196.76$   $M_y=74.18$   $T_y=5.87$   $M_z=6.12$   $M_x=1.19$   
 Tensioni:  $\sigma_N=-74.24$   $\sigma_M=-130.89$   $\tau=1.37$   $\sigma_{max}=-205.13$   
 Tensioni:  $\sigma_N=-74.24$   $\sigma_M=-10.84$   $\tau=21.35$   $\tau_{max}=21.35$   
 Tensioni:  $\sigma_N=-74.24$   $\sigma_M=-130.89$   $\tau=1.37$   $\sigma_{ID,max}=205.14$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU  $Xl=0.21$



Sollecitazioni:  $N=-2743.81$   $T_z=-397.97$   $M_y=78.84$   $M_x=-1.45$   
 $V,Ed=-397.97$   $V_c,Rd,Red=22234.20$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=490.38$   $T_z=117.61$   $M_y=51.14$   $T_y=11.61$   $M_z=9.50$   $M_x=7.78$   
 Tensioni:  $\sigma_N=25.81$   $\sigma_M=100.93$   $\tau=9.02$   $\sigma_{max}=126.74$   
 Tensioni:  $\sigma_N=25.81$   $\sigma_M=16.83$   $\tau=20.96$   $\tau_{max}=20.96$   
 Tensioni:  $\sigma_N=25.81$   $\sigma_M=100.93$   $\tau=9.02$   $\sigma_{ID,max}=127.70$

Asta n. 3930 (-9177 -11706) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3572.91$   $M_y,Ed=88.36$   $M_z,Ed=-0.37$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.58$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.38$   $N_{cr,y}=69583900.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.28$   $N_{cr,z}=36606100.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.03+0.00=0.09$   
 Verifica ZZ:  $0.06+0.03+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.11$  - Classe 3  
 Sollecitazioni:  $N=-1528.58$   $T_z=-169.57$   $M_y=68.37$   $T_y=10.85$   $M_z=7.25$   $M_x=1.47$   
 Tensioni:  $\sigma_N=-80.45$   $\sigma_M=-123.91$   $\tau=1.70$   $\sigma_{max}=-204.36$   
 Tensioni:  $\sigma_N=-80.45$   $\sigma_M=-12.85$   $\tau=18.91$   $\tau_{max}=18.91$   
 Tensioni:  $\sigma_N=-80.45$   $\sigma_M=-123.91$   $\tau=1.70$   $\sigma_{ID,max}=204.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.11$   
 Sollecitazioni:  $N=-3571.00$   $T_z=-366.99$   $M_y=88.36$   $T_y=5.72$   $M_x=-1.05$   
 $V,Ed=5.72$   $V_c,Rd,Red=14826.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-366.99$   $V_c,Rd,Red=22239.50$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=741.96$   $T_z=127.09$   $M_y=25.32$   $T_y=10.59$   $M_z=12.98$   $M_x=7.40$   
 Tensioni:  $\sigma_N=39.05$   $\sigma_M=66.73$   $\tau=8.58$   $\sigma_{max}=105.78$   
 Tensioni:  $\sigma_N=39.05$   $\sigma_M=22.99$   $\tau=21.48$   $\tau_{max}=21.48$   
 Tensioni:  $\sigma_N=39.05$   $\sigma_M=66.73$   $\tau=8.58$   $\sigma_{ID,max}=106.82$

Asta n. 3930 (-11706 -15972) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3168.97$   $M_y,Ed=101.58$   $M_z,Ed=1.35$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.58$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.38$   $N_{cr,y}=69583900.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.28$   $N_{cr,z}=36606100.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.04+0.00=0.09$   
 Verifica ZZ:  $0.05+0.03+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3167.12$   $T_z=961.02$   $M_y=3.39$   $T_y=11.32$   $M_z=1.35$   
 Tensioni:  $\sigma_N=-166.69$   $\sigma_M=-8.16$   $\tau=0.00$   $\sigma_{max}=-174.85$   
 Tensioni:  $\sigma_N=-166.69$   $\sigma_M=2.40$   $\tau=97.55$   $\tau_{max}=97.55$   
 Tensioni:  $\sigma_N=-166.69$   $\sigma_M=-2.74$   $\tau=97.55$   $\sigma_{ID,max}=239.28$

- Verifica a taglio dir. Y [4.2.16] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3168.97$   $T_z=961.93$   $M_y=101.58$   $T_y=11.32$   
 $V,Ed=11.32$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=961.93$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.04$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=696.28$   $T_z=117.19$   $M_y=24.02$   $T_y=12.54$   $M_z=15.87$   $M_x=7.87$   
 Tensioni:  $\sigma_N=36.65$   $\sigma_M=70.49$   $\tau=9.12$   $\sigma_{max}=107.14$   
 Tensioni:  $\sigma_N=36.65$   $\sigma_M=28.10$   $\tau=21.02$   $\tau_{max}=21.02$   
 Tensioni:  $\sigma_N=36.65$   $\sigma_M=70.49$   $\tau=9.12$   $\sigma_{ID,max}=108.30$

Asta n. 3932 (-2431 -16300) Tubo circolare d=70x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-616.66 M,Ed=3.71  
 Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=206.21  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=88.21$  Ncr=22093.10  $\lambda^*=1.15$   
 Curva a:  $\Phi=1.27$   $\chi_{,min}=0.56$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.98, \text{----}, \text{----}, \text{----}$   
 Verifica: 0.02+0.01=0.03
  
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/5907)
  
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/5923)  $f_{z,L}=0.01$  (L/15898)
  
  - Verifica a trazione [4.2.5] - CC 37 SLU Xl=2.06 - Classe 1  
 Sollecitazioni: N=1151.58 T=6.93  $M_x=9.90$   
 N,Ed=1151.58 Npl,Rd=28041.00 Nu,Rd=30454.90 N,Ed/Nt,Rd=0.04
  
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-139.23 T=7.20  $M_x=12.12$   
 V,Ed=7.20 Vc,Rd,Red=10059.80 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.03 - Classe 3  
 Sollecitazioni: N=-403.57 M=2.75  $M_x=5.45$   
 Tensioni:  $\sigma_N=-48.66$   $\sigma_M=-21.23$   $\tau=21.06$   $\sigma_{max}=-69.89$   
 Tensioni:  $\sigma_N=-48.66$   $\sigma_M=18.39$   $\tau=21.06$   $\tau_{max}=21.06$   
 Tensioni:  $\sigma_N=-48.66$   $\sigma_M=-21.23$   $\tau=21.06$   $\sigma_{ID,max}=78.84$

Asta n. 3933 (-2430 -16296) Tubo circolare d=70x4 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-598.93 M,Ed=3.70  
 Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=206.21  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=88.21$  Ncr=22093.10  $\lambda^*=1.15$   
 Curva a:  $\Phi=1.27$   $\chi_{,min}=0.56$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.98, \text{----}, \text{----}, \text{----}$   
 Verifica: 0.02+0.01=0.03
  
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.04$  (L/5876)
  
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.04$  (L/5868)  $f_{z,L}=0.01$  (L/16238)
  
  - Verifica a trazione [4.2.5] - CC 37 SLU Xl=2.06 - Classe 1  
 Sollecitazioni: N=1157.98 T=6.93  $M_x=-9.91$   
 N,Ed=1157.98 Npl,Rd=28041.00 Nu,Rd=30454.90 N,Ed/Nt,Rd=0.04
  
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.00  
 Sollecitazioni: N=-112.25 T=7.19  $M_x=-12.89$   
 V,Ed=7.19 Vc,Rd,Red=10044.10 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.03 - Classe 3  
 Sollecitazioni: N=-458.34 M=2.74  $M_x=-5.88$   
 Tensioni:  $\sigma_N=-55.26$   $\sigma_M=-21.18$   $\tau=22.72$   $\sigma_{max}=-76.45$   
 Tensioni:  $\sigma_N=-55.26$   $\sigma_M=16.23$   $\tau=22.72$   $\tau_{max}=22.72$   
 Tensioni:  $\sigma_N=-55.26$   $\sigma_M=-21.18$   $\tau=22.72$   $\sigma_{ID,max}=85.98$

Asta n. 3934 (-15309 -15984) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-1581.81 My,Ed=-2.64  
 Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.04  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_x=65.02$  Ncr,y=43921.70  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43921.70  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$

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Kyy, Kyz, Kzy, Kzz=0.99, 0.60, 0.00, 0.99  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.00$  (L/32900)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1581.81 T<sub>z</sub>=7.08 M<sub>x</sub>=-11.85  
N,Ed=-1581.81 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1531.93 T<sub>z</sub>=-7.08 M<sub>x</sub>=-13.00  
V,Ed=-7.08 Vc,Rd,Red=5556.90 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.74 - Classe 3  
Sollecitazioni: N=-881.51 M<sub>y</sub>=-1.95 M<sub>x</sub>=-5.62  
Tensioni:  $\sigma_N=-98.38$   $\sigma_M=-12.45$   $\tau=22.39$   $\sigma_{max}=-110.83$   
Tensioni:  $\sigma_N=-98.38$   $\sigma_M=12.45$   $\tau=22.39$   $\tau_{max}=22.39$   
Tensioni:  $\sigma_N=-98.38$   $\sigma_M=-12.45$   $\tau=22.39$   $\sigma_{TD,max}=117.42$

Asta n. 3935 (-15305 -15952) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1589.24 M<sub>y</sub>,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 M<sub>y,c</sub>,Rd=421.84 L=149.04  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43921.70  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43921.70  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.60, 0.00, 0.99  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08
- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L}=0.00$  (L/32528)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1589.24 T<sub>z</sub>=7.07 M<sub>x</sub>=11.67  
N,Ed=-1589.24 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1537.13 T<sub>z</sub>=-7.07 M<sub>x</sub>=12.73  
V,Ed=-7.07 Vc,Rd,Red=5561.70 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-841.45 M<sub>y</sub>=-1.95 M<sub>x</sub>=5.84  
Tensioni:  $\sigma_N=-93.91$   $\sigma_M=-12.42$   $\tau=23.28$   $\sigma_{max}=-106.34$   
Tensioni:  $\sigma_N=-93.91$   $\sigma_M=12.42$   $\tau=23.28$   $\tau_{max}=23.28$   
Tensioni:  $\sigma_N=-93.91$   $\sigma_M=-12.42$   $\tau=23.28$   $\sigma_{TD,max}=113.73$

Asta n. 3936 (-2431 -2519) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-350.42 M<sub>y</sub>,Ed=8.15 M<sub>z</sub>,Ed=-41.81  
Resistenze: Nc,Rd=43952.40 M<sub>y,c</sub>,Rd=955.82 M<sub>z,c</sub>,Rd=801.10 L=31.65  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=10.73$  Ncr,y=2340400.00  $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.53$  Ncr,z=1471160.00  $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.01+0.05=0.06  
Verifica ZZ: 0.01+0.01+0.05=0.06
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3597)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3558)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-350.42 T<sub>z</sub>=37.71 M<sub>y</sub>=8.15 T<sub>y</sub>=75.19 M<sub>z</sub>=-41.81 M<sub>x</sub>=2.84  
Tensioni:  $\sigma_N=-26.96$   $\sigma_M=-205.28$   $\tau=6.88$   $\sigma_{max}=-232.24$

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Tensioni:  $\sigma_N=-26.96$   $\sigma_M=-25.23$   $\tau=21.83$   $\tau_{max}=21.83$   
 Tensioni:  $\sigma_N=-26.96$   $\sigma_M=-205.28$   $\tau=6.88$   $\sigma_{ID,max}=232.54$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.20$   
 Sollecitazioni:  $N=-347.93$   $T_z=36.49$   $M_y=75.19$   $T_y=26.67$   $M_z=-2.84$   
 $V,Ed=75.19$   $V_c,Rd,Red=10837.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=36.49$   $V_c,Rd,Red=14449.80$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-224.13$   $T_z=-39.57$   $M_y=13.24$   $T_y=43.27$   $M_z=-23.61$   $M_x=12.26$   
 Tensioni:  $\sigma_N=-17.24$   $\sigma_M=-146.47$   $\tau=29.72$   $\sigma_{max}=-163.71$   
 Tensioni:  $\sigma_N=-17.24$   $\sigma_M=-40.99$   $\tau=38.33$   $\tau_{max}=38.33$   
 Tensioni:  $\sigma_N=-17.24$   $\sigma_M=-146.47$   $\tau=29.72$   $\sigma_{ID,max}=171.62$

Asta n. 3936 (-2519 -3073) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1140.03$   $M_y,Ed=16.81$   $M_z,Ed=-6.91$   
 Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=33.31$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.21$   $N_{cr,y}=3665290.00$   $\lambda_y^*=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.89$   $N_{cr,z}=1610860.00$   $\lambda_z^*=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.01+0.01=0.04$   
 Verifica ZZ:  $0.02+0.01+0.01=0.04$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3610)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3601)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.33$  - Classe 3  
 Sollecitazioni:  $N=-1135.46$   $T_z=-60.54$   $M_y=16.81$   $T_y=27.98$   $M_z=2.41$   $M_x=-4.90$   
 Tensioni:  $\sigma_N=-75.70$   $\sigma_M=-51.24$   $\tau=9.37$   $\sigma_{max}=-126.94$   
 Tensioni:  $\sigma_N=-75.70$   $\sigma_M=7.00$   $\tau=16.90$   $\tau_{max}=16.90$   
 Tensioni:  $\sigma_N=-75.70$   $\sigma_M=-51.24$   $\tau=9.37$   $\sigma_{ID,max}=127.97$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.24$   
 Sollecitazioni:  $N=-343.08$   $T_z=34.05$   $M_y=-11.94$   $T_y=75.10$   $M_x=2.84$   
 $V,Ed=75.10$   $V_c,Rd,Red=10949.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=34.05$   $V_c,Rd,Red=18249.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.33$  - Classe 3  
 Sollecitazioni:  $N=-348.02$   $T_z=-38.71$   $M_y=22.48$   $T_y=39.55$   $M_z=4.03$   $M_x=9.29$   
 Tensioni:  $\sigma_N=-23.20$   $\sigma_M=-71.30$   $\tau=17.78$   $\sigma_{max}=-94.50$   
 Tensioni:  $\sigma_N=-23.20$   $\sigma_M=-51.55$   $\tau=25.52$   $\tau_{max}=25.52$   
 Tensioni:  $\sigma_N=-23.20$   $\sigma_M=-68.96$   $\tau=24.08$   $\sigma_{ID,max}=101.17$

Asta n. 3936 (-3073 -5566) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1135.47$   $M_y,Ed=34.11$   $M_z,Ed=10.06$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=27.98$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.29$   $N_{cr,y}=9941640.00$   $\lambda_y^*=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.68$   $N_{cr,z}=5230010.00$   $\lambda_z^*=0.11$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.01+0.01=0.04$   
 Verifica ZZ:  $0.02+0.01+0.01=0.03$

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.28$  - Classe 3  
 Sollecitazioni:  $N=-1130.60$   $T_z=-62.98$   $M_y=34.11$   $T_y=27.42$   $M_z=10.06$   $M_x=-4.89$   
 Tensioni:  $\sigma_N=-59.51$   $\sigma_M=-74.86$   $\tau=5.67$   $\sigma_{max}=-134.36$   
 Tensioni:  $\sigma_N=-59.51$   $\sigma_M=17.82$   $\tau=12.06$   $\tau_{max}=12.06$   
 Tensioni:  $\sigma_N=-59.51$   $\sigma_M=-74.86$   $\tau=5.67$   $\sigma_{ID,max}=134.72$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1=0.28$  - Classe 3  
 Sollecitazioni:  $N=-343.87$   $T_z=-39.78$   $M_y=32.89$   $T_y=39.33$   $M_z=15.02$   $M_x=9.29$   
 Tensioni:  $\sigma_N=-18.10$   $\sigma_M=-82.95$   $\tau=10.77$   $\sigma_{max}=-101.05$   
 Tensioni:  $\sigma_N=-18.10$   $\sigma_M=-48.17$   $\tau=16.47$   $\tau_{max}=16.47$   
 Tensioni:  $\sigma_N=-18.10$   $\sigma_M=-82.95$   $\tau=10.77$   $\sigma_{ID,max}=102.76$

Asta n. 3936 (-5566 -8969) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2826.85$   $M_y,Ed=-76.31$   $M_z,Ed=20.07$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.10$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.19$   $N_{cr,y}=14592300.00$   $\lambda'_{y^*}=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.16$   $N_{cr,z}=7676560.00$   $\lambda'_{z^*}=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.03+0.01=0.08$   
 Verifica ZZ:  $0.04+0.02+0.01=0.08$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2826.85$   $T_z=-574.20$   $M_y=-76.31$   $T_y=27.15$   $M_z=13.80$   $M_x=-3.89$   
 Tensioni:  $\sigma_N=-148.78$   $\sigma_M=-149.85$   $\tau=4.51$   $\sigma_{max}=-298.63$   
 Tensioni:  $\sigma_N=-148.78$   $\sigma_M=24.45$   $\tau=62.80$   $\tau_{max}=62.80$   
 Tensioni:  $\sigma_N=-148.78$   $\sigma_M=-149.85$   $\tau=4.51$   $\sigma_{ID,max}=298.73$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $X_1=0.23$   
 Sollecitazioni:  $N=202.29$   $T_z=-158.11$   $T_y=41.93$   $M_z=34.07$   $M_x=2.17$   
 $V,Ed=41.93$   $V_c,Rd,Red=14816.50$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-158.11$   $V_c,Rd,Red=22224.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=331.41$   $T_z=-98.52$   $M_y=26.37$   $T_y=25.72$   $M_z=16.67$   $M_x=8.73$   
 Tensioni:  $\sigma_N=17.44$   $\sigma_M=75.87$   $\tau=10.13$   $\sigma_{max}=93.31$   
 Tensioni:  $\sigma_N=17.44$   $\sigma_M=-29.53$   $\tau=20.13$   $\tau_{max}=20.13$   
 Tensioni:  $\sigma_N=17.44$   $\sigma_M=75.87$   $\tau=10.13$   $\sigma_{ID,max}=94.95$

Asta n. 3936 (-8969 -11052) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3641.54$   $M_y,Ed=86.76$   $M_z,Ed=25.06$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$   $N_{cr,y}=70873400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$   $N_{cr,z}=37284400.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.03+0.01=0.10$   
 Verifica ZZ:  $0.06+0.03+0.01=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3639.65$   $T_z=-610.32$   $M_y=86.76$   $T_y=28.24$   $M_z=25.06$   $M_x=-3.91$   
 Tensioni:  $\sigma_N=-191.56$   $\sigma_M=-189.32$   $\tau=4.53$   $\sigma_{max}=-380.88$   
 Tensioni:  $\sigma_N=-191.56$   $\sigma_M=44.39$   $\tau=66.48$   $\tau_{max}=66.48$   
 Tensioni:  $\sigma_N=-191.56$   $\sigma_M=-189.32$   $\tau=4.53$   $\sigma_{ID,max}=380.97$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_1=0.01$   
 Sollecitazioni:  $N=969.62$   $T_z=-199.17$   $T_y=49.19$   $M_z=47.23$   $M_x=2.49$   
 $V,Ed=49.19$   $V_c,Rd,Red=14813.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-199.17$   $V_c,Rd,Red=22220.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=616.22$   $T_z=-139.30$   $M_y=16.49$   $T_y=22.43$   $M_z=27.12$   $M_x=8.18$   
 Tensioni:  $\sigma_N=32.43$   $\sigma_M=81.25$   $\tau=9.49$   $\sigma_{max}=113.68$   
 Tensioni:  $\sigma_N=32.43$   $\sigma_M=-48.04$   $\tau=23.63$   $\tau_{max}=23.63$   
 Tensioni:  $\sigma_N=32.43$   $\sigma_M=81.25$   $\tau=9.49$   $\sigma_{ID,max}=114.86$

Asta n. 3936 (-11052 -15311) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3194.39 My,Ed=97.99 Mz,Ed=29.05  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.48  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$  Ncr,y=70872900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$  Ncr,z=37284200.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.04+0.02=0.10  
 Verifica ZZ: 0.05+0.03+0.02=0.10

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3194.39 Tz=823.89 My=97.99 Ty=32.93 Mz=25.72 Mx=-3.68  
 Tensioni:  $\sigma_N=-168.13$   $\sigma_M=-208.61$   $\tau=4.27$   $\sigma_{max}=-376.73$   
 Tensioni:  $\sigma_N=-168.13$   $\sigma_M=-45.56$   $\tau=87.90$   $\tau_{max}=87.90$   
 Tensioni:  $\sigma_N=-168.13$   $\sigma_M=-208.61$   $\tau=4.27$   $\sigma_{ID,max}=376.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU Xl=0.00  
 Sollecitazioni: N=433.85 Tz=-35.10 Ty=32.18 Mz=30.87 Mx=-1.88  
 V,Ed=32.18 Vc,Rd,Red=14819.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-35.10 Vc,Rd,Red=22228.50 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=711.32 Tz=-90.42 My=23.46 Ty=24.86 Mz=29.22 Mx=7.93  
 Tensioni:  $\sigma_N=37.44$   $\sigma_M=96.63$   $\tau=9.19$   $\sigma_{max}=134.07$   
 Tensioni:  $\sigma_N=37.44$   $\sigma_M=-51.76$   $\tau=18.37$   $\tau_{max}=18.37$   
 Tensioni:  $\sigma_N=37.44$   $\sigma_M=96.63$   $\tau=9.19$   $\sigma_{ID,max}=135.01$

Asta n. 3937 (-2430 -2518) Tubo 60x80x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-320.12 My,Ed=11.31 Mz,Ed=39.98  
 Resistenze: Nc,Rd=43952.40 My,c,Rd=955.82 Mz,c,Rd=801.10 L=31.65  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=10.73$  Ncr,y=2340400.00  $\lambda'_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.53$  Ncr,z=1471160.00  $\lambda'_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.01+0.05=0.06  
 Verifica ZZ: 0.01+0.01+0.05=0.06

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3606)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3558)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1133.61 Tz=-54.09 My=-20.60 Ty=-28.56 Mz=16.00 Mx=4.47  
 Tensioni:  $\sigma_N=-87.20$   $\sigma_M=-140.39$   $\tau=10.84$   $\sigma_{max}=-227.59$   
 Tensioni:  $\sigma_N=-87.20$   $\sigma_M=-56.28$   $\tau=19.16$   $\tau_{max}=19.16$   
 Tensioni:  $\sigma_N=-87.20$   $\sigma_M=-140.39$   $\tau=10.84$   $\sigma_{ID,max}=228.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.20  
 Sollecitazioni: N=-319.37 Tz=25.70 Ty=-75.93 Mz=26.95 Mx=-4.49  
 V,Ed=-75.93 Vc,Rd,Red=10815.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=25.70 Vc,Rd,Red=14420.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-260.45 Tz=-37.17 My=15.86 Ty=-48.75 Mz=26.59 Mx=-14.49  
 Tensioni:  $\sigma_N=-20.03$   $\sigma_M=-168.33$   $\tau=35.13$   $\sigma_{max}=-188.37$   
 Tensioni:  $\sigma_N=-20.03$   $\sigma_M=-49.09$   $\tau=44.82$   $\tau_{max}=44.82$   
 Tensioni:  $\sigma_N=-20.03$   $\sigma_M=-168.33$   $\tau=35.13$   $\sigma_{ID,max}=197.95$

Asta n. 3937 (-2518 -3072) Tubo 60x100x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3

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Sollecitazioni: N,Ed=-1129.85 My,Ed=15.83 Mz,Ed=6.96  
 Resistenze: Nc,Rd=50714.30 My,c,Rd=1327.02 Mz,c,Rd=972.02 L=33.31  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.21$  Ncr,y=3665300.00  $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.89$  Ncr,z=1610860.00  $\lambda^*_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.01+0.01=0.04  
 Verifica ZZ: 0.02+0.01+0.01=0.04

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3610)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3582)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.33 - Classe 3  
 Sollecitazioni: N=-1125.28 Tz=-58.22 My=15.83 Ty=-28.20 Mz=-2.43 Mx=4.47  
 Tensioni:  $\sigma_N=-75.02$   $\sigma_M=-48.79$   $\tau=8.56$   $\sigma_{max}=-123.81$   
 Tensioni:  $\sigma_N=-75.02$   $\sigma_M=7.05$   $\tau=15.80$   $\tau_{max}=15.80$   
 Tensioni:  $\sigma_N=-75.02$   $\sigma_M=-48.79$   $\tau=8.56$   $\sigma_{ID,max}=124.69$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.24  
 Sollecitazioni: N=-314.52 Tz=23.27 My=-8.41 Ty=-75.85 Mx=-4.49  
 V,Ed=-75.85 Vc,Rd,Red=10932.00 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=23.27 Vc,Rd,Red=18219.90 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.33 - Classe 3  
 Sollecitazioni: N=-254.18 Tz=-38.97 My=22.16 Ty=-48.58 Mz=-5.03 Mx=-14.49  
 Tensioni:  $\sigma_N=-16.95$   $\sigma_M=-73.95$   $\tau=27.73$   $\sigma_{max}=-90.90$   
 Tensioni:  $\sigma_N=-16.95$   $\sigma_M=-50.81$   $\tau=37.24$   $\tau_{max}=37.24$   
 Tensioni:  $\sigma_N=-16.95$   $\sigma_M=-71.04$   $\tau=35.48$   $\sigma_{ID,max}=107.32$

Asta n. 3937 (-3072 -5563) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1125.29 My,Ed=32.48 Mz,Ed=-10.14  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=27.98  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.29$  Ncr,y=9941640.00  $\lambda^*_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.68$  Ncr,z=5230010.00  $\lambda^*_z=0.11$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.01+0.01=0.04  
 Verifica ZZ: 0.02+0.01+0.01=0.03

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.28 - Classe 3  
 Sollecitazioni: N=-219.48 Tz=-58.31 My=50.38 Ty=-54.37 Mz=-20.08 Mx=-3.29  
 Tensioni:  $\sigma_N=-11.55$   $\sigma_M=-121.14$   $\tau=3.81$   $\sigma_{max}=-132.69$   
 Tensioni:  $\sigma_N=-11.55$   $\sigma_M=-73.78$   $\tau=11.70$   $\tau_{max}=11.70$   
 Tensioni:  $\sigma_N=-11.55$   $\sigma_M=-121.14$   $\tau=3.81$   $\sigma_{ID,max}=132.86$
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.28 - Classe 3  
 Sollecitazioni: N=-385.28 Tz=-40.09 My=33.84 Ty=-40.22 Mz=-15.33 Mx=-9.29  
 Tensioni:  $\sigma_N=-20.28$   $\sigma_M=-85.10$   $\tau=10.77$   $\sigma_{max}=-105.38$   
 Tensioni:  $\sigma_N=-20.28$   $\sigma_M=-49.56$   $\tau=16.60$   $\tau_{max}=16.60$   
 Tensioni:  $\sigma_N=-20.28$   $\sigma_M=-85.10$   $\tau=10.77$   $\sigma_{ID,max}=107.02$

Asta n. 3937 (-5563 -8955) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2848.91 My,Ed=-79.95 Mz,Ed=-20.16  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=23.10  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.19$  Ncr,y=14592300.00  $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.16$  Ncr,z=7676560.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.03+0.01=0.09  
 Verifica ZZ: 0.04+0.02+0.01=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2848.91$   $T_x=-566.67$   $M_y=-79.95$   $T_y=-27.11$   $M_z=-13.90$   $M_x=3.58$   
 Tensioni:  $\sigma_N=-149.94$   $\sigma_M=-155.86$   $\tau=4.15$   $\sigma_{max}=-305.81$   
 Tensioni:  $\sigma_N=-149.94$   $\sigma_M=24.63$   $\tau=61.67$   $\tau_{max}=61.67$   
 Tensioni:  $\sigma_N=-149.94$   $\sigma_M=-155.86$   $\tau=4.15$   $\sigma_{ID,max}=305.89$

- Verifica a taglio dir. Y [4.2.16] - CC 49 SLU  $X_l=0.13$   
 Sollecitazioni:  $N=-1554.86$   $T_x=-403.81$   $T_y=-41.31$   $M_z=-28.27$   
 $V,Ed=-41.31$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-403.81$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.23$  - Classe 3  
 Sollecitazioni:  $N=264.30$   $T_x=-99.12$   $M_y=17.18$   $T_y=-30.22$   $M_z=-28.00$   $M_x=-13.55$   
 Tensioni:  $\sigma_N=13.91$   $\sigma_M=84.13$   $\tau=15.71$   $\sigma_{max}=98.04$   
 Tensioni:  $\sigma_N=13.91$   $\sigma_M=-49.60$   $\tau=25.77$   $\tau_{max}=25.77$   
 Tensioni:  $\sigma_N=13.91$   $\sigma_M=84.13$   $\tau=15.71$   $\sigma_{ID,max}=101.75$

Asta n. 3937 (-8955 -11020) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3240.43$   $M_y,Ed=67.84$   $M_z,Ed=-25.19$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$   $N_{cr,y}=70873400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$   $N_{cr,z}=37284400.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.03+0.01=0.09$   
 Verifica ZZ:  $0.05+0.02+0.01=0.08$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3238.53$   $T_x=-289.24$   $M_y=67.84$   $T_y=-30.24$   $M_z=-25.19$   $M_x=3.53$   
 Tensioni:  $\sigma_N=-170.45$   $\sigma_M=-159.37$   $\tau=4.09$   $\sigma_{max}=-329.82$   
 Tensioni:  $\sigma_N=-170.45$   $\sigma_M=44.62$   $\tau=33.46$   $\tau_{max}=33.46$   
 Tensioni:  $\sigma_N=-170.45$   $\sigma_M=-159.37$   $\tau=4.09$   $\sigma_{ID,max}=329.90$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU  $X_l=0.02$   
 Sollecitazioni:  $N=820.16$   $T_x=-129.42$   $T_y=-37.60$   $M_z=-32.15$   $M_x=-7.36$   
 $V,Ed=-37.60$   $V_c,Rd,Red=14770.80$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-129.42$   $V_c,Rd,Red=22156.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=595.73$   $T_x=-94.77$   $M_y=14.46$   $T_y=-31.82$   $M_z=-33.43$   $M_x=-13.30$   
 Tensioni:  $\sigma_N=31.35$   $\sigma_M=90.78$   $\tau=15.41$   $\sigma_{max}=122.14$   
 Tensioni:  $\sigma_N=31.35$   $\sigma_M=-59.23$   $\tau=25.04$   $\tau_{max}=25.04$   
 Tensioni:  $\sigma_N=31.35$   $\sigma_M=90.78$   $\tau=15.41$   $\sigma_{ID,max}=125.02$

Asta n. 3937 (-11020 -15303) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3371.04$   $M_y,Ed=62.32$   $M_z,Ed=-29.12$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$   $N_{cr,y}=70872700.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.25$   $N_{cr,z}=37284000.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.02+0.02=0.09$   
 Verifica ZZ:  $0.05+0.02+0.02=0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3371.04$   $T_x=498.92$   $M_y=62.32$   $T_y=-31.37$   $M_z=-25.94$   $M_x=3.42$   
 Tensioni:  $\sigma_N=-177.42$   $\sigma_M=-152.07$   $\tau=3.97$   $\sigma_{max}=-329.50$   
 Tensioni:  $\sigma_N=-177.42$   $\sigma_M=-45.96$   $\tau=54.61$   $\tau_{max}=54.61$   
 Tensioni:  $\sigma_N=-177.42$   $\sigma_M=-152.07$   $\tau=3.97$   $\sigma_{ID,max}=329.57$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.06$   
 Sollecitazioni:  $N=333.09$   $T_x=-78.57$   $T_y=-24.58$   $M_z=-23.72$   $M_x=-1.09$



V,Ed=-24.58 Vc,Rd,Red=14826.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-78.57 Vc,Rd,Red=22239.00 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=670.41 Tz=-111.25 My=21.67 Ty=-33.18 Mz=-37.57 Mx=-13.23  
Tensioni:  $\sigma_N=35.28$   $\sigma_M=110.67$   $\tau=15.33$   $\sigma_{max}=145.96$   
Tensioni:  $\sigma_N=35.28$   $\sigma_M=-66.55$   $\tau=26.63$   $\tau_{max}=26.63$   
Tensioni:  $\sigma_N=35.28$   $\sigma_M=110.67$   $\tau=15.33$   $\sigma_{ID,max}=148.36$

Asta n. 3938 (-2436 -15705) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
Sollecitazioni: N,Ed=-2161.26 M,Ed=3.97  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=210.36  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=89.99$  Ncr=21228.50  $\lambda^*=1.18$   
Curva a:  $\Phi=1.30$   $\chi_{min}=0.54$   
Kyy, Kyz, Kzy, Kzz=1.06, ----, ----, ----  
Verifica: 0.14+0.01=0.15
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/6614)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/7685)  $f_{z,L}=0.01$  (L/14804)
- Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2161.26 T=7.55 Mx=9.09  
N,Ed=-2161.26 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=2.10  
Sollecitazioni: N=-1998.64 T=7.55 Mx=10.15  
V,Ed=7.55 Vc,Rd,Red=10099.80 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.05 - Classe 3  
Sollecitazioni: N=-1066.34 M=2.94 Mx=4.78  
Tensioni:  $\sigma_N=-128.57$   $\sigma_M=-22.71$   $\tau=18.45$   $\sigma_{max}=-151.28$   
Tensioni:  $\sigma_N=-128.57$   $\sigma_M=19.67$   $\tau=18.45$   $\tau_{max}=18.45$   
Tensioni:  $\sigma_N=-128.57$   $\sigma_M=-22.71$   $\tau=18.45$   $\sigma_{ID,max}=154.62$

Asta n. 3939 (-2435 -15701) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
Sollecitazioni: N,Ed=-2148.67 M,Ed=3.96  
Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=210.36  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=89.99$  Ncr=21228.50  $\lambda^*=1.18$   
Curva a:  $\Phi=1.30$   $\chi_{min}=0.54$   
Kyy, Kyz, Kzy, Kzz=1.06, ----, ----, ----  
Verifica: 0.14+0.01=0.15
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/6567)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.03$  (L/7584)  $f_{z,L}=0.01$  (L/15091)
- Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2148.67 T=7.54 Mx=-9.06  
N,Ed=-2148.67 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.08
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=2.10  
Sollecitazioni: N=-1984.84 T=7.54 Mx=-10.88  
V,Ed=7.54 Vc,Rd,Red=10085.10 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=1.04 - Classe 3  
Sollecitazioni: N=-1145.42 M=2.94 Mx=-4.59  
Tensioni:  $\sigma_N=-138.10$   $\sigma_M=-22.66$   $\tau=17.73$   $\sigma_{max}=-160.77$   
Tensioni:  $\sigma_N=-138.10$   $\sigma_M=-0.00$   $\tau=17.73$   $\tau_{max}=17.73$

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Tensioni:  $\sigma_N=-138.10$   $\sigma_M=-22.66$   $\tau=17.73$   $\sigma_{ID,max}=163.68$

Asta n. 3940 (-14646 -15323) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N, Ed=-1460.74$  My, Ed=-2.64  
 Resistenze:  $N_c, Rd=20053.30$  My, c, Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
 Verifica YY:  $0.07+0.01=0.08$   
 Verifica ZZ:  $0.07=0.07$
  - Verifica Freccia massima carichi totali - CC 112  
 $f_{z,g}=0.00$  (L/32221)
  - Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
 Sollecitazioni:  $N=-1460.74$   $T_z=7.08$   $M_x=-12.69$   
 $N, Ed=-1460.74$   $N_c, Rd=-20053.30$   $N, Ed/N_c, Rd=0.07$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni:  $N=-1379.47$   $T_z=7.08$   $M_x=-13.74$   
 $V, Ed=7.08$   $V_c, Rd, Red=5543.68$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
 Sollecitazioni:  $N=-851.44$   $M_y=-1.95$   $M_x=-6.28$   
 Tensioni:  $\sigma_N=-95.03$   $\sigma_M=-12.45$   $\tau=25.02$   $\sigma_{max}=-107.47$   
 Tensioni:  $\sigma_N=-95.03$   $\sigma_M=12.45$   $\tau=25.02$   $\tau_{max}=25.02$   
 Tensioni:  $\sigma_N=-95.03$   $\sigma_M=-12.45$   $\tau=25.02$   $\sigma_{ID,max}=115.88$

Asta n. 3941 (-14642 -15291) Tubo 60x60x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N, Ed=-1464.20$  My, Ed=-2.63  
 Resistenze:  $N_c, Rd=20053.30$  My, c, Rd=421.84 L=149.03  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
 Verifica YY:  $0.07+0.01=0.08$   
 Verifica ZZ:  $0.07=0.07$
  - Verifica Freccia massima carichi totali - CC 96  
 $f_{z,L}=0.00$  (L/31864)
  - Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
 Sollecitazioni:  $N=-1464.20$   $T_z=7.07$   $M_x=12.66$   
 $N, Ed=-1464.20$   $N_c, Rd=-20053.30$   $N, Ed/N_c, Rd=0.07$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni:  $N=-1381.10$   $T_z=7.07$   $M_x=13.67$   
 $V, Ed=7.07$   $V_c, Rd, Red=5544.87$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
 Sollecitazioni:  $N=-819.92$   $M_y=-1.95$   $M_x=6.09$   
 Tensioni:  $\sigma_N=-91.51$   $\sigma_M=-12.42$   $\tau=24.27$   $\sigma_{max}=-103.93$   
 Tensioni:  $\sigma_N=-91.51$   $\sigma_M=12.42$   $\tau=24.27$   $\tau_{max}=24.27$   
 Tensioni:  $\sigma_N=-91.51$   $\sigma_M=-12.42$   $\tau=24.27$   $\sigma_{ID,max}=112.12$

Asta n. 3945 (-2436 -2528) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-501.76$  My, Ed=-16.47 Mz, Ed=-29.19  
 Resistenze:  $N_c, Rd=43952.40$  My, c, Rd=955.82 Mz, c, Rd=801.10 L=30.95  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=10.49$  Ncr,  $y=2446990.00$   $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.24$  Ncr,  $z=1538160.00$   $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.01+0.03=0.06$

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Verifica ZZ:  $0.01+0.01+0.03=0.06$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3575)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3452)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=222.54$   $T_z=112.12$   $M_y=11.85$   $T_y=107.04$   $M_z=-53.62$   
Tensioni:  $\sigma_N=17.12$   $\sigma_M=268.24$   $\tau=0.00$   $\sigma_{max}=285.36$   
Tensioni:  $\sigma_N=17.12$   $\sigma_M=36.69$   $\tau=21.35$   $\tau_{max}=21.35$   
Tensioni:  $\sigma_N=17.12$   $\sigma_M=268.24$   $\tau=0.00$   $\sigma_{ID,max}=285.36$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.11$   
Sollecitazioni:  $N=223.94$   $T_z=111.43$   $T_y=107.04$   $M_z=-41.58$   
 $V_{,Ed}=107.04$   $V_{c,Rd}=10875.70$   $V_{,Ed}/V_{c,Rd}=0.01$
- Verifica a taglio dir. Z [4.2.16]  
 $V_{,Ed}=111.43$   $V_{c,Rd}=14501.00$   $V_{,Ed}/V_{c,Rd}=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=255.77$   $T_z=31.35$   $M_y=14.39$   $T_y=56.28$   $M_z=-28.57$   $M_x=11.53$   
Tensioni:  $\sigma_N=19.67$   $\sigma_M=171.47$   $\tau=27.96$   $\sigma_{max}=191.15$   
Tensioni:  $\sigma_N=19.67$   $\sigma_M=-44.53$   $\tau=39.15$   $\tau_{max}=39.15$   
Tensioni:  $\sigma_N=19.67$   $\sigma_M=171.47$   $\tau=27.96$   $\sigma_{ID,max}=197.18$

Asta n. 3945 (-2528 -3059) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni:  $N_{,Ed}=-156.13$   $M_{y,Ed}=-23.62$   $M_{z,Ed}=-10.08$   
Resistenze:  $N_{c,Rd}=50714.30$   $M_{y,c,Rd}=1327.02$   $M_{z,c,Rd}=972.02$   $L=30.95$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$   
 $\lambda_y=8.56$   $N_{cr,y}=4246610.00$   $\lambda^*_y=0.11$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=12.91$   $N_{cr,z}=1866350.00$   $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$   
Verifica YY:  $0.00+0.02+0.01=0.03$   
Verifica ZZ:  $0.00+0.01+0.01=0.03$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3585)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3470)
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.31$  - Classe 3  
Sollecitazioni:  $N=589.95$   $T_z=87.41$   $M_y=-56.22$   $T_y=58.65$   $M_z=7.49$   $M_x=-4.35$   
Tensioni:  $\sigma_N=39.33$   $\sigma_M=169.29$   $\tau=8.32$   $\sigma_{max}=208.62$   
Tensioni:  $\sigma_N=39.33$   $\sigma_M=-128.92$   $\tau=19.82$   $\tau_{max}=19.82$   
Tensioni:  $\sigma_N=39.33$   $\sigma_M=169.29$   $\tau=8.32$   $\sigma_{ID,max}=209.12$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.20$   
Sollecitazioni:  $N=229.14$   $T_z=108.84$   $M_y=-44.13$   $T_y=107.11$   
 $V_{,Ed}=107.11$   $V_{c,Rd}=10980.30$   $V_{,Ed}/V_{c,Rd}=0.01$
- Verifica a taglio dir. Z [4.2.16]  
 $V_{,Ed}=108.84$   $V_{c,Rd}=18300.50$   $V_{,Ed}/V_{c,Rd}=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.31$  - Classe 3  
Sollecitazioni:  $N=337.48$   $T_z=37.87$   $M_y=-23.62$   $T_y=51.68$   $M_z=5.95$   $M_x=8.64$   
Tensioni:  $\sigma_N=22.50$   $\sigma_M=80.86$   $\tau=16.54$   $\sigma_{max}=103.36$   
Tensioni:  $\sigma_N=22.50$   $\sigma_M=54.15$   $\tau=26.66$   $\tau_{max}=26.66$   
Tensioni:  $\sigma_N=22.50$   $\sigma_M=77.41$   $\tau=24.78$   $\sigma_{ID,max}=108.74$

Asta n. 3945 (-3059 -5359) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni:  $N_{,Ed}=-152.54$   $M_{y,Ed}=-31.95$   $M_{z,Ed}=19.76$   
Resistenze:  $N_{c,Rd}=64238.10$   $M_{y,c,Rd}=2116.38$   $M_{z,c,Rd}=1670.05$   $L=26.79$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=6.03$  Ncr, $y=10846600.00$   $\lambda'_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.31$  Ncr, $z=5706070.00$   $\lambda'_z=0.11$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.01+0.01=0.03  
 Verifica ZZ: 0.00+0.01+0.01=0.03

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.27 - Classe 3  
 Sollecitazioni: N=235.54 Tz=105.53 My=-84.91 Ty=107.34 Mz=41.48  
 Tensioni:  $\sigma_N=12.40$   $\sigma_M=219.61$   $\tau=0.00$   $\sigma_{max}=232.01$   
 Tensioni:  $\sigma_N=12.40$   $\sigma_M=-124.34$   $\tau=15.57$   $\tau_{max}=15.57$   
 Tensioni:  $\sigma_N=12.40$   $\sigma_M=219.61$   $\tau=0.00$   $\sigma_{TD,max}=232.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.27 - Classe 3  
 Sollecitazioni: N=340.71 Tz=36.24 My=-31.95 Ty=51.62 Mz=19.76 Mx=8.64  
 Tensioni:  $\sigma_N=17.93$   $\sigma_M=91.06$   $\tau=10.02$   $\sigma_{max}=108.99$   
 Tensioni:  $\sigma_N=17.93$   $\sigma_M=46.79$   $\tau=17.50$   $\tau_{max}=17.50$   
 Tensioni:  $\sigma_N=17.93$   $\sigma_M=91.06$   $\tau=10.02$   $\sigma_{TD,max}=110.36$

Asta n. 3945 (-5359 -8681) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2484.85 My,Ed=-102.64 Mz,Ed=34.40  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=23.10  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=5.19$  Ncr, $y=14592300.00$   $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.16$  Ncr, $z=7676590.00$   $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.04+0.02=0.10  
 Verifica ZZ: 0.04+0.03+0.02=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2484.85 Tz=-691.93 My=-102.64 Ty=40.17 Mz=25.12 Mx=-4.04  
 Tensioni:  $\sigma_N=-130.78$   $\sigma_M=-214.83$   $\tau=4.68$   $\sigma_{max}=-345.61$   
 Tensioni:  $\sigma_N=-130.78$   $\sigma_M=44.50$   $\tau=74.92$   $\tau_{max}=74.92$   
 Tensioni:  $\sigma_N=-130.78$   $\sigma_M=-214.83$   $\tau=4.68$   $\sigma_{TD,max}=345.70$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.15  
 Sollecitazioni: N=-2482.19 Tz=-693.24 Ty=40.17 Mz=31.03 Mx=-4.04  
 V,Ed=40.17 Vc,Rd,Red=14800.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-693.24 Vc,Rd,Red=22200.00 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=463.74 Tz=-134.10 My=-30.12 Ty=33.41 Mz=21.95 Mx=8.03  
 Tensioni:  $\sigma_N=24.41$   $\sigma_M=92.55$   $\tau=9.31$   $\sigma_{max}=116.96$   
 Tensioni:  $\sigma_N=24.41$   $\sigma_M=-38.88$   $\tau=22.92$   $\tau_{max}=22.92$   
 Tensioni:  $\sigma_N=24.41$   $\sigma_M=92.55$   $\tau=9.31$   $\sigma_{TD,max}=118.06$

Asta n. 3945 (-8681 -14648) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3131.00 My,Ed=28.89 Mz,Ed=47.87  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=20.76  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=4.67$  Ncr, $y=18065200.00$   $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.44$  Ncr, $z=9503560.00$   $\lambda'_z=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.01+0.03=0.09  
 Verifica ZZ: 0.05+0.01+0.03=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.21 - Classe 3  
 Sollecitazioni: N=-3127.25 Tz=4.61 My=27.75 Ty=51.80 Mz=47.87 Mx=-4.14  
 Tensioni:  $\sigma_N=-164.59$   $\sigma_M=-141.24$   $\tau=4.80$   $\sigma_{max}=-305.83$   
 Tensioni:  $\sigma_N=-164.59$   $\sigma_M=40.63$   $\tau=12.30$   $\tau_{max}=12.30$   
 Tensioni:  $\sigma_N=-164.59$   $\sigma_M=-141.24$   $\tau=4.80$   $\sigma_{TD,max}=305.94$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU Xl=0.11  
 Sollecitazioni: N=1382.41 Tz=-196.09 Ty=85.69 Mz=77.00

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V,Ed=85.69 Vc,Rd=14835.60 V,Ed/Vc,Rd=0.01

- Verifica a taglio dir. Z [4.2.16]  
V,Ed=-196.09 Vc,Rd=22253.40 V,Ed/Vc,Rd=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.21 - Classe 3  
Sollecitazioni: N=754.37 Tz=-126.70 My=22.68 Ty=36.84 Mz=39.24 Mx=7.32  
Tensioni:  $\sigma_N=39.70$   $\sigma_M=115.68$   $\tau=8.49$   $\sigma_{max}=155.38$   
Tensioni:  $\sigma_N=39.70$   $\sigma_M=-69.51$   $\tau=21.35$   $\tau_{max}=21.35$   
Tensioni:  $\sigma_N=39.70$   $\sigma_M=115.68$   $\tau=8.49$   $\sigma_{TD,max}=156.07$

Asta n. 3946 (-2435 -2527) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 37 SLU - Classe 3  
Sollecitazioni: N,Ed=-502.27 My,Ed=-16.73 Mz,Ed=29.35  
Resistenze: Nc,Rd=43952.40 My,c,Rd=955.82 Mz,c,Rd=801.10 L=30.95  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=10.49$  Ncr,y=2446990.00  $\lambda^*_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.24$  Ncr,z=1538160.00  $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.01+0.03=0.06  
Verifica ZZ: 0.01+0.01+0.03=0.06

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3575)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3489)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=236.23 Tz=96.21 My=10.03 Ty=-108.74 Mz=54.49 Mx=-2.86  
Tensioni:  $\sigma_N=18.17$   $\sigma_M=265.47$   $\tau=6.93$   $\sigma_{max}=283.64$   
Tensioni:  $\sigma_N=18.17$   $\sigma_M=-31.05$   $\tau=28.58$   $\tau_{max}=28.58$   
Tensioni:  $\sigma_N=18.17$   $\sigma_M=265.47$   $\tau=6.93$   $\sigma_{TD,max}=283.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.11  
Sollecitazioni: N=237.62 Tz=95.52 Ty=-108.74 Mz=42.26 Mx=-2.86  
V,Ed=-108.74 Vc,Rd,Red=10837.10 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=95.52 Vc,Rd,Red=14449.50 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=331.48 Tz=37.02 My=15.49 Ty=-64.45 Mz=32.76 Mx=-14.87  
Tensioni:  $\sigma_N=25.50$   $\sigma_M=193.03$   $\tau=36.04$   $\sigma_{max}=218.53$   
Tensioni:  $\sigma_N=25.50$   $\sigma_M=-47.93$   $\tau=48.85$   $\tau_{max}=48.85$   
Tensioni:  $\sigma_N=25.50$   $\sigma_M=193.03$   $\tau=36.04$   $\sigma_{TD,max}=227.27$

Asta n. 3946 (-2527 -3058) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
Sollecitazioni: N,Ed=-193.52 My,Ed=-24.15 Mz,Ed=10.53  
Resistenze: Nc,Rd=50714.30 My,c,Rd=1327.02 Mz,c,Rd=972.02 L=30.95  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=8.56$  Ncr,y=4246610.00  $\lambda^*_y=0.11$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=12.91$  Ncr,z=1866350.00  $\lambda^*_z=0.17$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.00+0.02+0.01=0.03  
Verifica ZZ: 0.00+0.01+0.01=0.03
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3595)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3498)
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.31 - Classe 3  
Sollecitazioni: N=585.22 Tz=85.15 My=-54.79 Ty=-58.87 Mz=-7.51 Mx=4.06  
Tensioni:  $\sigma_N=39.01$   $\sigma_M=165.71$   $\tau=7.76$   $\sigma_{max}=204.72$   
Tensioni:  $\sigma_N=39.01$   $\sigma_M=-125.64$   $\tau=19.31$   $\tau_{max}=19.31$

Tensioni:  $\sigma_N=39.01$   $\sigma_M=165.71$   $\tau=7.76$   $\sigma_{ID,max}=205.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.20$   
 Sollecitazioni:  $N=242.82$   $T_z=92.94$   $M_y=-37.89$   $T_y=-108.82$   $M_x=-2.85$   
 $V,Ed=-108.82$   $V_c,Rd,Red=10949.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=92.94$   $V_c,Rd,Red=18249.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=334.62$   $T_z=36.16$   $M_y=-15.76$   $T_y=-64.41$   $M_z=12.82$   $M_x=-14.87$   
 Tensioni:  $\sigma_N=22.31$   $\sigma_M=84.73$   $\tau=28.46$   $\sigma_{max}=107.03$   
 Tensioni:  $\sigma_N=22.31$   $\sigma_M=36.13$   $\tau=41.06$   $\tau_{max}=41.06$   
 Tensioni:  $\sigma_N=22.31$   $\sigma_M=77.30$   $\tau=38.73$   $\sigma_{ID,max}=120.08$

Asta n. 3946 (-3058 -5358) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni:  $N,Ed=-189.76$   $M_y,Ed=-32.77$   $M_z,Ed=-20.70$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=26.79$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.03$   $N_{cr,y}=10846600.00$   $\lambda^*_y=0.08$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=8.31$   $N_{cr,z}=5706080.00$   $\lambda^*_z=0.11$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.01+0.01=0.03$   
 Verifica ZZ:  $0.00+0.01+0.01=0.03$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.27$  - Classe 3  
 Sollecitazioni:  $N=249.26$   $T_z=89.66$   $M_y=-72.63$   $T_y=-108.91$   $M_z=-42.06$   $M_x=-2.85$   
 Tensioni:  $\sigma_N=13.12$   $\sigma_M=201.18$   $\tau=3.30$   $\sigma_{max}=214.29$   
 Tensioni:  $\sigma_N=13.12$   $\sigma_M=106.36$   $\tau=19.10$   $\tau_{max}=19.10$   
 Tensioni:  $\sigma_N=13.12$   $\sigma_M=201.18$   $\tau=3.30$   $\sigma_{ID,max}=214.37$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.27$  - Classe 3  
 Sollecitazioni:  $N=341.84$   $T_z=33.47$   $M_y=-28.18$   $T_y=-64.33$   $M_z=-24.37$   $M_x=-14.87$   
 Tensioni:  $\sigma_N=17.99$   $\sigma_M=94.34$   $\tau=17.24$   $\sigma_{max}=112.34$   
 Tensioni:  $\sigma_N=17.99$   $\sigma_M=41.27$   $\tau=26.56$   $\tau_{max}=26.56$   
 Tensioni:  $\sigma_N=17.99$   $\sigma_M=94.34$   $\tau=17.24$   $\sigma_{ID,max}=116.24$

Asta n. 3946 (-5358 -8680) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2516.40$   $M_y,Ed=-104.23$   $M_z,Ed=-34.31$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.10$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.19$   $N_{cr,y}=14592300.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.16$   $N_{cr,z}=7676570.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.04+0.02=0.10$   
 Verifica ZZ:  $0.04+0.03+0.02=0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2516.40$   $T_z=-662.07$   $M_y=-104.23$   $T_y=-43.35$   $M_z=-24.30$   $M_x=3.35$   
 Tensioni:  $\sigma_N=-132.44$   $\sigma_M=-215.69$   $\tau=3.88$   $\sigma_{max}=-348.13$   
 Tensioni:  $\sigma_N=-132.44$   $\sigma_M=43.04$   $\tau=71.09$   $\tau_{max}=71.09$   
 Tensioni:  $\sigma_N=-132.44$   $\sigma_M=-215.69$   $\tau=3.88$   $\sigma_{ID,max}=348.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU  $X_l=0.19$   
 Sollecitazioni:  $N=626.73$   $T_z=-229.59$   $T_y=-57.60$   $M_z=-46.63$   $M_x=-9.46$   
 $V,Ed=-57.60$   $V_c,Rd,Red=14752.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-229.59$   $V_c,Rd,Red=22128.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=439.24$   $T_z=-123.61$   $M_y=-27.10$   $T_y=-40.96$   $M_z=-27.31$   $M_x=-13.88$   
 Tensioni:  $\sigma_N=23.12$   $\sigma_M=98.58$   $\tau=16.09$   $\sigma_{max}=121.70$   
 Tensioni:  $\sigma_N=23.12$   $\sigma_M=-48.38$   $\tau=28.64$   $\tau_{max}=28.64$   
 Tensioni:  $\sigma_N=23.12$   $\sigma_M=98.58$   $\tau=16.09$   $\sigma_{ID,max}=124.85$

Asta n. 3946 (-8680 -14640) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-3033.61 M<sub>y</sub>,Ed=33.54 M<sub>z</sub>,Ed=-49.06  
 Resistenze: N<sub>c</sub>,R<sub>d</sub>=64238.10 M<sub>y</sub>,c,R<sub>d</sub>=2116.38 M<sub>z</sub>,c,R<sub>d</sub>=1670.05 L=20.76

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y$ =4.67 N<sub>cr,y</sub>=18065200.00  $\lambda^*_y$ =0.06 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00

$\lambda_z$ =6.44 N<sub>cr,z</sub>=9503580.00  $\lambda^*_z$ =0.08 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.05+0.01+0.03=0.09

Verifica ZZ: 0.05+0.01+0.03=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU X<sub>l</sub>=0.21 - Classe 3

Sollecitazioni: N=1576.45 T<sub>z</sub>=-113.18 M<sub>y</sub>=26.45 T<sub>y</sub>=-100.01 M<sub>z</sub>=-85.11 M<sub>x</sub>=-3.57

Tensioni:  $\sigma_N$ =82.97  $\sigma_M$ =214.56  $\tau$ =4.14  $\sigma_{max}$ =297.53

Tensioni:  $\sigma_N$ =82.97  $\sigma_M$ =-38.74  $\tau$ =18.65  $\tau_{max}$ =18.65

Tensioni:  $\sigma_N$ =82.97  $\sigma_M$ =214.56  $\tau$ =4.14  $\sigma_{ID,max}$ =297.61

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU X<sub>l</sub>=0.09

Sollecitazioni: N=1478.71 T<sub>z</sub>=-179.91 T<sub>y</sub>=-104.86 M<sub>z</sub>=-76.76 M<sub>x</sub>=-3.02

V,Ed=-104.86 V<sub>c</sub>,R<sub>d</sub>,Red=14809.00 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-179.91 V<sub>c</sub>,R<sub>d</sub>,Red=22213.50 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND X<sub>l</sub>=0.21 - Classe 3

Sollecitazioni: N=698.95 T<sub>z</sub>=-102.57 M<sub>y</sub>=19.18 T<sub>y</sub>=-55.48 M<sub>z</sub>=-50.52 M<sub>x</sub>=-13.63

Tensioni:  $\sigma_N$ =36.79  $\sigma_M$ =132.91  $\tau$ =15.80  $\sigma_{max}$ =169.70

Tensioni:  $\sigma_N$ =36.79  $\sigma_M$ =-89.49  $\tau$ =26.22  $\tau_{max}$ =26.22

Tensioni:  $\sigma_N$ =36.79  $\sigma_M$ =132.91  $\tau$ =15.80  $\sigma_{ID,max}$ =171.89

Asta n. 3947 (-2461 -15107) Tubo circolare d=70x4 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1

Sollecitazioni: N,Ed=-2861.00 M,Ed=4.20

Resistenze: N<sub>c</sub>,R<sub>d</sub>=28041.00 M<sub>c</sub>,R<sub>d</sub>=575.38 L=213.17

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, ----, ----

$\lambda$ =91.18 N<sub>cr</sub>=20674.20  $\lambda^*$ =1.19

Curva a:  $\Phi$ =1.32  $\chi_{min}$ =0.53

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=1.10, ----, ----, ----

Verifica: 0.19+0.01=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}$ =0.03 (L/7393)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}$ =0.02 (L/9208)  $f_{z,l}$ =0.02 (L/13783)

- Verifica a compressione [4.2.9] - CC 49 SLU X<sub>l</sub>=0.00 - Classe 1

Sollecitazioni: N=-2861.00 T=7.88 M<sub>x</sub>=-7.98

N,Ed=-2861.00 N<sub>c</sub>,R<sub>d</sub>=-28041.00 N,Ed/N<sub>c</sub>,R<sub>d</sub>=0.10

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU X<sub>l</sub>=2.13

Sollecitazioni: N=-2653.20 T=7.88 M<sub>x</sub>=-9.13

V,Ed=7.88 V<sub>c</sub>,R<sub>d</sub>,Red=10120.70 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND X<sub>l</sub>=1.06 - Classe 3

Sollecitazioni: N=-1433.86 M=3.11 M<sub>x</sub>=-4.13

Tensioni:  $\sigma_N$ =-172.88  $\sigma_M$ =-24.00  $\tau$ =15.93  $\sigma_{max}$ =-196.88

Tensioni:  $\sigma_N$ =-172.88  $\sigma_M$ =23.63  $\tau$ =15.93  $\tau_{max}$ =15.93

Tensioni:  $\sigma_N$ =-172.88  $\sigma_M$ =-24.00  $\tau$ =15.93  $\sigma_{ID,max}$ =198.81

Asta n. 3948 (-2462 -15111) Tubo circolare d=70x4 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1

Sollecitazioni: N,Ed=-2875.37 M,Ed=4.20

Resistenze: N<sub>c</sub>,R<sub>d</sub>=28041.00 M<sub>c</sub>,R<sub>d</sub>=575.38 L=213.17

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, ----, ----

$\lambda$ =91.18 N<sub>cr</sub>=20674.20  $\lambda^*$ =1.19

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Curva a:  $\Phi=1.32$   $\chi_{,min}=0.53$   
Kyy, Kyz, Kzy, Kzz=1.10, ----, ----, ----  
Verifica:  $0.19+0.01=0.20$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/7389)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.02$  (L/9198)  $f_{z,L}=0.02$  (L/13970)
- Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2875.37 T=7.89 M<sub>x</sub>=8.10  
N,Ed=-2875.37 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.10
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=2.13  
Sollecitazioni: N=-2670.71 T=7.89 M<sub>x</sub>=8.65  
V,Ed=7.89 Vc,Rd,Red=10130.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.06 - Classe 3  
Sollecitazioni: N=-1286.64 M=3.11 M<sub>x</sub>=4.47  
Tensioni:  $\sigma_N=-155.13$   $\sigma_M=-24.05$   $\tau=17.24$   $\sigma_{max}=-179.18$   
Tensioni:  $\sigma_N=-155.13$   $\sigma_M=-0.00$   $\tau=17.24$   $\tau_{max}=17.24$   
Tensioni:  $\sigma_N=-155.13$   $\sigma_M=-24.05$   $\tau=17.24$   $\sigma_{ID,max}=181.65$

Asta n. 3949 (-13977 -14660) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1450.95 M<sub>y</sub>,Ed=-2.64  
Resistenze: Nc,Rd=20053.30 M<sub>y</sub>,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY:  $0.07+0.01=0.08$   
Verifica ZZ:  $0.07=0.07$
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.00$  (L/31892)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1450.95 T<sub>z</sub>=7.08 M<sub>x</sub>=-13.01  
N,Ed=-1450.95 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.07
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1365.28 T<sub>z</sub>=-7.08 M<sub>x</sub>=-14.12  
V,Ed=-7.08 Vc,Rd,Red=5536.85 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.74 - Classe 3  
Sollecitazioni: N=-869.50 M<sub>y</sub>=-1.95 M<sub>x</sub>=-6.62  
Tensioni:  $\sigma_N=-97.04$   $\sigma_M=-12.44$   $\tau=26.37$   $\sigma_{max}=-109.49$   
Tensioni:  $\sigma_N=-97.04$   $\sigma_M=12.44$   $\tau=26.37$   $\tau_{max}=26.37$   
Tensioni:  $\sigma_N=-97.04$   $\sigma_M=-12.44$   $\tau=26.37$   $\sigma_{ID,max}=118.63$

Asta n. 3950 (-13973 -14628) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni: N,Ed=-1454.71 M<sub>y</sub>,Ed=-2.63  
Resistenze: Nc,Rd=20053.30 M<sub>y</sub>,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
Verifica YY:  $0.07+0.01=0.08$   
Verifica ZZ:  $0.07=0.07$
- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,g}=0.00$  (L/32192)
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1454.71 T<sub>z</sub>=7.07 M<sub>x</sub>=12.94  
N,Ed=-1454.71 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.07



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- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_l=1.49$   
Sollecitazioni:  $N=-1367.40$   $T_z=-7.07$   $M_x=14.00$   
 $V,Ed=-7.07$   $V_c,Rd,Red=5539.14$   $V,Ed/V_c,Rd,Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.75$  - Classe 3  
Sollecitazioni:  $N=-840.34$   $M_y=-1.95$   $M_x=6.64$   
Tensioni:  $\sigma_N=-93.79$   $\sigma_M=-12.42$   $\tau=26.45$   $\sigma_{max}=-106.21$   
Tensioni:  $\sigma_N=-93.79$   $\sigma_M=12.42$   $\tau=26.45$   $\tau_{max}=26.45$   
Tensioni:  $\sigma_N=-93.79$   $\sigma_M=-12.42$   $\tau=26.45$   $\sigma_{ID,max}=115.67$
  
- Asta n. 3955 (-2461 -2550) Tubo 60x80x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3449)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3173)
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1787.55$   $T_z=81.92$   $M_y=-8.61$   $T_y=-160.82$   $M_z=77.00$   $M_x=-5.82$   
Tensioni:  $\sigma_N=137.50$   $\sigma_M=355.41$   $\tau=14.12$   $\sigma_{max}=492.91$   
Tensioni:  $\sigma_N=137.50$   $\sigma_M=26.64$   $\tau=46.09$   $\tau_{max}=46.09$   
Tensioni:  $\sigma_N=137.50$   $\sigma_M=355.41$   $\tau=14.12$   $\sigma_{ID,max}=493.52$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=1850.88$   $T_z=159.65$   $T_y=-163.32$   $M_z=78.32$   $M_x=-1.87$   
 $V,Ed=-163.32$   $V_c,Rd,Red=10850.50$   $V,Ed/V_c,Rd,Red=0.02$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=159.65$   $V_c,Rd,Red=14467.30$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=977.36$   $T_z=66.49$   $M_y=-17.60$   $T_y=-83.90$   $M_z=40.73$   $M_x=-13.03$   
Tensioni:  $\sigma_N=75.18$   $\sigma_M=234.15$   $\tau=31.58$   $\sigma_{max}=309.33$   
Tensioni:  $\sigma_N=75.18$   $\sigma_M=54.47$   $\tau=48.26$   $\tau_{max}=48.26$   
Tensioni:  $\sigma_N=75.18$   $\sigma_M=234.15$   $\tau=31.58$   $\sigma_{ID,max}=314.13$
  
- Asta n. 3955 (-2550 -3045) Tubo 60x100x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3485)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3231)
  
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.29$  - Classe 3  
Sollecitazioni:  $N=1858.34$   $T_z=155.95$   $M_y=-88.67$   $T_y=-163.37$   $M_z=-13.12$   $M_x=-1.87$   
Tensioni:  $\sigma_N=123.89$   $\sigma_M=271.55$   $\tau=3.57$   $\sigma_{max}=395.44$   
Tensioni:  $\sigma_N=123.89$   $\sigma_M=203.31$   $\tau=35.59$   $\tau_{max}=35.59$   
Tensioni:  $\sigma_N=123.89$   $\sigma_M=271.55$   $\tau=3.57$   $\sigma_{ID,max}=395.49$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.21$   
Sollecitazioni:  $N=1857.23$   $T_z=156.50$   $M_y=-76.49$   $T_y=-163.37$   $M_x=-1.87$   
 $V,Ed=-163.37$   $V_c,Rd,Red=10960.20$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=156.50$   $V_c,Rd,Red=18267.00$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=980.17$   $T_z=66.46$   $M_y=-23.03$   $T_y=-83.79$   $M_z=17.76$   $M_x=-13.03$   
Tensioni:  $\sigma_N=65.34$   $\sigma_M=120.43$   $\tau=24.93$   $\sigma_{max}=185.77$   
Tensioni:  $\sigma_N=65.34$   $\sigma_M=52.80$   $\tau=41.33$   $\tau_{max}=41.33$   
Tensioni:  $\sigma_N=65.34$   $\sigma_M=120.43$   $\tau=24.93$   $\sigma_{ID,max}=190.72$
  
- Asta n. 3955 (-3045 -5111) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=1862.75$   $T_z=153.60$   $M_y=-127.64$   $T_y=-164.96$   $M_z=-54.74$   $M_x=-1.80$   
Tensioni:  $\sigma_N=98.04$   $\sigma_M=314.73$   $\tau=2.08$   $\sigma_{max}=412.77$

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Tensioni:  $\sigma_N=98.04$   $\sigma_M=186.91$   $\tau=26.01$   $\tau_{max}=26.01$   
Tensioni:  $\sigma_N=98.04$   $\sigma_M=314.73$   $\tau=2.08$   $\sigma_{TD,max}=412.78$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.02$   
Sollecitazioni:  $N=948.73$   $T_z=-20.03$   $T_y=-86.32$   $M_z=-8.97$   $M_x=-7.45$   
 $V,Ed=-86.32$   $Vc,Rd,Red=14769.90$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-20.03$   $Vc,Rd,Red=22154.90$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.25$  - Classe 3  
Sollecitazioni:  $N=986.85$   $T_z=64.56$   $M_y=-42.92$   $T_y=-84.48$   $M_z=-27.51$   $M_x=-13.01$   
Tensioni:  $\sigma_N=51.94$   $\sigma_M=124.26$   $\tau=15.08$   $\sigma_{max}=176.19$   
Tensioni:  $\sigma_N=51.94$   $\sigma_M=62.86$   $\tau=27.33$   $\tau_{max}=27.33$   
Tensioni:  $\sigma_N=51.94$   $\sigma_M=124.26$   $\tau=15.08$   $\sigma_{TD,max}=178.12$

Asta n. 3955 (-5111 -8442) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1722.07$   $M_y,Ed=-153.36$   $M_z,Ed=-55.74$   
Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.50$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.29$   $Ncr,y=14094200.00$   $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.29$   $Ncr,z=7414560.00$   $\lambda'_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.06+0.03=0.12$   
Verifica ZZ:  $0.03+0.05+0.03=0.10$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=1900.63$   $T_z=-474.69$   $M_y=-138.32$   $T_y=-115.02$   $M_z=-52.60$   $M_x=-8.94$   
Tensioni:  $\sigma_N=100.03$   $\sigma_M=327.47$   $\tau=10.37$   $\sigma_{max}=427.50$   
Tensioni:  $\sigma_N=100.03$   $\sigma_M=-93.18$   $\tau=58.56$   $\tau_{max}=58.56$   
Tensioni:  $\sigma_N=100.03$   $\sigma_M=327.47$   $\tau=10.37$   $\sigma_{TD,max}=427.88$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.11$   
Sollecitazioni:  $N=1003.84$   $T_z=-132.13$   $T_y=-63.08$   $M_z=-36.90$   $M_x=-10.14$   
 $V,Ed=-63.08$   $Vc,Rd,Red=14746.20$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-132.13$   $Vc,Rd,Red=22119.30$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=894.20$   $T_z=-205.96$   $M_y=-53.87$   $T_y=-50.43$   $M_z=-26.46$   $M_x=-10.09$   
Tensioni:  $\sigma_N=47.06$   $\sigma_M=139.62$   $\tau=11.70$   $\sigma_{max}=186.68$   
Tensioni:  $\sigma_N=47.06$   $\sigma_M=-46.87$   $\tau=32.61$   $\tau_{max}=32.61$   
Tensioni:  $\sigma_N=47.06$   $\sigma_M=139.62$   $\tau=11.70$   $\sigma_{TD,max}=187.78$

Asta n. 3955 (-8442 -10071) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1927.35$   $M_y,Ed=47.69$   $M_z,Ed=-73.00$   
Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.28$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.31$   $Ncr,y=73690200.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.19$   $Ncr,z=38766300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.02+0.04=0.09$   
Verifica ZZ:  $0.03+0.01+0.04=0.09$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=2538.75$   $T_z=-216.34$   $M_y=-35.47$   $T_y=-146.82$   $M_z=-93.06$   $M_x=-16.14$   
Tensioni:  $\sigma_N=133.62$   $\sigma_M=245.06$   $\tau=18.71$   $\sigma_{max}=378.68$   
Tensioni:  $\sigma_N=133.62$   $\sigma_M=-164.84$   $\tau=40.69$   $\tau_{max}=40.69$   
Tensioni:  $\sigma_N=133.62$   $\sigma_M=245.06$   $\tau=18.71$   $\sigma_{TD,max}=380.06$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.03$   
Sollecitazioni:  $N=99.68$   $T_z=-319.37$   $T_y=-117.61$   $M_z=-87.89$   $M_x=-10.46$   
 $V,Ed=-117.61$   $Vc,Rd,Red=14743.40$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-319.37 Vc,Rd,Red=22115.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=1043.31 T<sub>z</sub>=-110.64 M<sub>y</sub>=-11.12 T<sub>y</sub>=-69.79 M<sub>z</sub>=-54.56 M<sub>x</sub>=-15.19  
Tensioni: σ<sub>N</sub>=54.91 σ<sub>M</sub>=128.23 τ=17.62 σ<sub>max</sub>=183.14  
Tensioni: σ<sub>N</sub>=54.91 σ<sub>M</sub>=-96.65 τ=28.85 τ<sub>max</sub>=28.85  
Tensioni: σ<sub>N</sub>=54.91 σ<sub>M</sub>=128.23 τ=17.62 σ<sub>ID,max</sub>=185.66

Asta n. 3955 (-10071 -13971) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-2292.40 M<sub>y</sub>,Ed=43.64 M<sub>z</sub>,Ed=-74.88  
Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=10.28  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=2.31 Ncr,y=73689600.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.19 Ncr,z=38766000.00 λ<sub>z</sub>'=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.02+0.04=0.09  
Verifica ZZ: 0.04+0.01+0.04=0.09

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2436.61 T<sub>z</sub>=-108.70 M<sub>y</sub>=-17.87 T<sub>y</sub>=-70.23 M<sub>z</sub>=-111.61 M<sub>x</sub>=-16.30  
Tensioni: σ<sub>N</sub>=128.24 σ<sub>M</sub>=254.50 τ=18.90 σ<sub>max</sub>=382.74  
Tensioni: σ<sub>N</sub>=128.24 σ<sub>M</sub>=-197.71 τ=29.94 τ<sub>max</sub>=29.94  
Tensioni: σ<sub>N</sub>=128.24 σ<sub>M</sub>=254.50 τ=18.90 σ<sub>ID,max</sub>=384.14

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.07  
Sollecitazioni: N=-156.84 T<sub>z</sub>=258.17 T<sub>y</sub>=-1.10 M<sub>z</sub>=-99.48 M<sub>x</sub>=-8.59  
V,Ed=-1.10 Vc,Rd,Red=14759.90 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=258.17 Vc,Rd,Red=22139.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=1000.85 T<sub>z</sub>=-86.23 M<sub>y</sub>=14.92 T<sub>y</sub>=-44.59 M<sub>z</sub>=-60.40 M<sub>x</sub>=-15.15  
Tensioni: σ<sub>N</sub>=52.68 σ<sub>M</sub>=146.11 τ=17.56 σ<sub>max</sub>=198.79  
Tensioni: σ<sub>N</sub>=52.68 σ<sub>M</sub>=-107.00 τ=26.32 τ<sub>max</sub>=26.32  
Tensioni: σ<sub>N</sub>=52.68 σ<sub>M</sub>=146.11 τ=17.56 σ<sub>ID,max</sub>=201.10

Asta n. 3956 (-2462 -2551) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.01 (L/3439)
- Verifica Freccia massima carichi totali - CC 46  
f<sub>z,g</sub>=0.01 (L/3155)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=1772.07 T<sub>z</sub>=96.82 M<sub>y</sub>=-6.24 T<sub>y</sub>=158.36 M<sub>z</sub>=-75.61 M<sub>x</sub>=2.05  
Tensioni: σ<sub>N</sub>=136.31 σ<sub>M</sub>=341.18 τ=4.96 σ<sub>max</sub>=477.49  
Tensioni: σ<sub>N</sub>=136.31 σ<sub>M</sub>=19.31 τ=36.47 τ<sub>max</sub>=36.47  
Tensioni: σ<sub>N</sub>=136.31 σ<sub>M</sub>=341.18 τ=4.96 σ<sub>ID,max</sub>=477.57
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU Xl=0.07  
Sollecitazioni: N=1395.95 T<sub>z</sub>=96.08 T<sub>y</sub>=104.49 M<sub>z</sub>=-42.28 M<sub>x</sub>=-10.94  
V,Ed=104.49 Vc,Rd,Red=10727.90 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=96.08 Vc,Rd,Red=14303.90 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=853.61 T<sub>z</sub>=61.56 M<sub>y</sub>=-15.25 T<sub>y</sub>=74.30 M<sub>z</sub>=-35.91 M<sub>x</sub>=8.95  
Tensioni: σ<sub>N</sub>=65.66 σ<sub>M</sub>=205.49 τ=21.69 σ<sub>max</sub>=271.15  
Tensioni: σ<sub>N</sub>=65.66 σ<sub>M</sub>=47.20 τ=36.47 τ<sub>max</sub>=36.47  
Tensioni: σ<sub>N</sub>=65.66 σ<sub>M</sub>=205.49 τ=21.69 σ<sub>ID,max</sub>=273.74

Asta n. 3956 (-2551 -3046) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
f<sub>z,g</sub>=0.01 (L/3485)

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- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,c}=0.01$  (L/3231)  $f_{z,l}=0.00$  (L/27248)
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.29$  - Classe 3  
Sollecitazioni:  $N=1844.06$   $T_z=171.02$   $M_y=-95.59$   $T_y=161.28$   $M_z=13.13$   $M_x=-1.49$   
Tensioni:  $\sigma_N=122.94$   $\sigma_M=289.21$   $\tau=2.86$   $\sigma_{max}=412.15$   
Tensioni:  $\sigma_N=122.94$   $\sigma_M=-219.19$   $\tau=34.48$   $\tau_{max}=34.48$   
Tensioni:  $\sigma_N=122.94$   $\sigma_M=289.21$   $\tau=2.86$   $\sigma_{ID,max}=412.18$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.21$   
Sollecitazioni:  $N=1842.95$   $T_z=171.57$   $M_y=-82.24$   $T_y=161.28$   $M_x=-1.49$   
 $V_{,Ed}=161.28$   $V_{c,Rd,Red}=10964.20$   $V_{,Ed/V_{c,Rd,Red}}=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V_{,Ed}=171.57$   $V_{c,Rd,Red}=18273.70$   $V_{,Ed/V_{c,Rd,Red}}=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=856.43$   $T_z=61.64$   $M_y=-21.39$   $T_y=74.24$   $M_z=-15.56$   $M_x=8.95$   
Tensioni:  $\sigma_N=57.10$   $\sigma_M=108.63$   $\tau=17.13$   $\sigma_{max}=165.72$   
Tensioni:  $\sigma_N=57.10$   $\sigma_M=49.04$   $\tau=31.66$   $\tau_{max}=31.66$   
Tensioni:  $\sigma_N=57.10$   $\sigma_M=108.63$   $\tau=17.13$   $\sigma_{ID,max}=168.36$
  
- Asta n. 3956 (-3046 -5112) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=1848.48$   $T_z=168.73$   $M_y=-138.37$   $T_y=162.87$   $M_z=54.23$   $M_x=-1.57$   
Tensioni:  $\sigma_N=97.29$   $\sigma_M=330.84$   $\tau=1.82$   $\sigma_{max}=428.12$   
Tensioni:  $\sigma_N=97.29$   $\sigma_M=-202.63$   $\tau=25.45$   $\tau_{max}=25.45$   
Tensioni:  $\sigma_N=97.29$   $\sigma_M=330.84$   $\tau=1.82$   $\sigma_{ID,max}=428.14$
  
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=885.96$   $T_z=60.19$   $M_y=-47.42$   $T_y=71.80$   $M_z=23.78$   $M_x=7.41$   
Tensioni:  $\sigma_N=46.63$   $\sigma_M=123.91$   $\tau=8.59$   $\sigma_{max}=170.54$   
Tensioni:  $\sigma_N=46.63$   $\sigma_M=69.45$   $\tau=19.00$   $\tau_{max}=19.00$   
Tensioni:  $\sigma_N=46.63$   $\sigma_M=123.91$   $\tau=8.59$   $\sigma_{ID,max}=171.19$
  
- Asta n. 3956 (-5112 -8464) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N_{,Ed}=-1670.55$   $M_{y,Ed}=-147.87$   $M_{z,Ed}=50.74$   
Resistenze:  $N_{c,Rd}=64238.10$   $M_{y,c,Rd}=2116.38$   $M_{z,c,Rd}=1670.05$   $L=23.50$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.29$   $N_{cr,y}=14093500.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.29$   $N_{cr,z}=7414150.00$   $\lambda^*_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.05+0.03=0.11$   
Verifica ZZ:  $0.03+0.04+0.03=0.10$
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1862.58$   $T_z=-457.86$   $M_y=-143.69$   $T_y=137.01$   $M_z=48.47$   $M_x=6.84$   
Tensioni:  $\sigma_N=98.03$   $\sigma_M=327.67$   $\tau=7.93$   $\sigma_{max}=425.70$   
Tensioni:  $\sigma_N=98.03$   $\sigma_M=-85.85$   $\tau=54.42$   $\tau_{max}=54.42$   
Tensioni:  $\sigma_N=98.03$   $\sigma_M=327.67$   $\tau=7.93$   $\sigma_{ID,max}=425.92$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.24$   
Sollecitazioni:  $N=1212.40$   $T_z=-300.56$   $T_y=101.48$   $M_z=58.90$   $M_x=7.57$   
 $V_{,Ed}=101.48$   $V_{c,Rd,Red}=14768.90$   $V_{,Ed/V_{c,Rd,Red}}=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V_{,Ed}=-300.56$   $V_{c,Rd,Red}=22153.30$   $V_{,Ed/V_{c,Rd,Red}}=0.01$
  
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=842.67$   $T_z=-187.28$   $M_y=-50.93$   $T_y=57.70$   $M_z=23.49$   $M_x=8.87$   
Tensioni:  $\sigma_N=44.35$   $\sigma_M=128.92$   $\tau=10.28$   $\sigma_{max}=173.27$   
Tensioni:  $\sigma_N=44.35$   $\sigma_M=-41.61$   $\tau=29.30$   $\tau_{max}=29.30$   
Tensioni:  $\sigma_N=44.35$   $\sigma_M=128.92$   $\tau=10.28$   $\sigma_{ID,max}=174.19$

Asta n. 3956 (-8464 -10076) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -2395.98$   $M_y, Ed = 71.07$   $M_z, Ed = 68.81$   
 Resistenze:  $N_c, Rd = 64238.10$   $M_y, c, Rd = 2116.38$   $M_z, c, Rd = 1670.05$   $L = 10.28$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.31$   $N_{cr, y} = 73684500.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.19$   $N_{cr, z} = 38763300.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04 + 0.03 + 0.04 = 0.10$   
 Verifica ZZ:  $0.04 + 0.02 + 0.04 = 0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 2294.45$   $T_z = -361.98$   $M_y = -46.44$   $T_y = 107.09$   $M_z = 95.55$   $M_x = 10.06$   
 Tensioni:  $\sigma_N = 120.76$   $\sigma_M = 267.63$   $\tau = 11.66$   $\sigma_{max} = 388.39$   
 Tensioni:  $\sigma_N = 120.76$   $\sigma_M = -169.26$   $\tau = 48.42$   $\tau_{max} = 48.42$   
 Tensioni:  $\sigma_N = 120.76$   $\sigma_M = 267.63$   $\tau = 11.66$   $\sigma_{ID, max} = 388.91$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_1 = 0.10$   
 Sollecitazioni:  $N = 2301.06$   $T_z = -312.29$   $T_y = 92.45$   $M_z = 103.48$   $M_x = 13.35$   
 $V, Ed = 92.45$   $V_c, Rd, Red = 14717.90$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -312.29$   $V_c, Rd, Red = 22076.90$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 1046.47$   $T_z = -167.39$   $M_y = -16.45$   $T_y = 48.24$   $M_z = 42.72$   $M_x = 10.30$   
 Tensioni:  $\sigma_N = 55.08$   $\sigma_M = 112.76$   $\tau = 11.94$   $\sigma_{max} = 167.84$   
 Tensioni:  $\sigma_N = 55.08$   $\sigma_M = -75.67$   $\tau = 28.93$   $\tau_{max} = 28.93$   
 Tensioni:  $\sigma_N = 55.08$   $\sigma_M = 112.76$   $\tau = 11.94$   $\sigma_{ID, max} = 169.10$

Asta n. 3956 (-10076 -13979) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -2067.27$   $M_y, Ed = 81.19$   $M_z, Ed = 70.42$   
 Resistenze:  $N_c, Rd = 64238.10$   $M_y, c, Rd = 2116.38$   $M_z, c, Rd = 1670.05$   $L = 10.28$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.31$   $N_{cr, y} = 73684400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.19$   $N_{cr, z} = 38763200.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03 + 0.03 + 0.04 = 0.10$   
 Verifica ZZ:  $0.03 + 0.02 + 0.04 = 0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_1 = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 2397.75$   $T_z = 24.86$   $M_y = -14.68$   $T_y = 55.88$   $M_z = 114.39$   $M_x = 10.52$   
 Tensioni:  $\sigma_N = 126.20$   $\sigma_M = 255.02$   $\tau = 12.19$   $\sigma_{max} = 381.22$   
 Tensioni:  $\sigma_N = 126.20$   $\sigma_M = 21.50$   $\tau = 20.29$   $\tau_{max} = 20.29$   
 Tensioni:  $\sigma_N = 126.20$   $\sigma_M = 255.02$   $\tau = 12.19$   $\sigma_{ID, max} = 381.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_1 = 0.09$   
 Sollecitazioni:  $N = -2065.65$   $T_z = 901.04$   $T_y = -6.49$   $M_z = 69.84$   $M_x = 6.79$   
 $V, Ed = -6.49$   $V_c, Rd, Red = 14775.80$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 901.04$   $V_c, Rd, Red = 22163.60$   $V, Ed/V_c, Rd, Red = 0.04$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1 = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 1100.07$   $T_z = 77.05$   $M_y = -16.18$   $T_y = 35.00$   $M_z = 49.57$   $M_x = 10.14$   
 Tensioni:  $\sigma_N = 57.90$   $\sigma_M = 126.20$   $\tau = 11.75$   $\sigma_{max} = 184.10$   
 Tensioni:  $\sigma_N = 57.90$   $\sigma_M = 87.81$   $\tau = 19.58$   $\tau_{max} = 19.58$   
 Tensioni:  $\sigma_N = 57.90$   $\sigma_M = 126.20$   $\tau = 11.75$   $\sigma_{ID, max} = 185.22$

Asta n. 3957 (-2474 -14504) Tubo circolare  $d = 70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
 Sollecitazioni:  $N, Ed = -4041.49$   $M, Ed = 4.45$   
 Resistenze:  $N_c, Rd = 28041.00$   $M, c, Rd = 575.38$   $L = 216.61$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, \text{----}, \text{----}$   
 $\lambda = 92.66$   $N_{cr} = 20021.90$   $\lambda^* = 1.21$   
 Curva a:  $\Phi = 1.34$   $\chi_{min} = 0.52$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 1.16, \text{----}, \text{----}, \text{----}$   
 Verifica:  $0.28 + 0.01 = 0.29$

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/8467)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/8934)  $f_{z,L}=0.02$  (L/12820)
- Verifica a compressione [4.2.9] - CC 49 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-4041.49$   $T=8.23$   $M_x=-6.46$   
 $N,Ed=-4041.49$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.14$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-3871.36$   $T=8.23$   $M_x=-6.95$   
 $V,Ed=8.23$   $V_c,Rd,Red=10165.20$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=1.08$  - Classe 3  
 Sollecitazioni:  $N=-1895.86$   $M=3.30$   $M_x=-3.96$   
 Tensioni:  $\sigma_N=-228.59$   $\sigma_M=-25.47$   $\tau=15.30$   $\sigma_{max}=-254.06$   
 Tensioni:  $\sigma_N=-228.59$   $\sigma_M=-0.00$   $\tau=15.30$   $\tau_{max}=15.30$   
 Tensioni:  $\sigma_N=-228.59$   $\sigma_M=-25.47$   $\tau=15.30$   $\sigma_{ID,max}=255.44$

Asta n. 3958 (-2475 -14508) Tubo circolare  $d=70 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-4034.55$   $M,Ed=4.46$   
 Resistenze:  $N_c,Rd=28041.00$   $M,c,Rd=575.38$   $L=216.61$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=92.66$   $N_{cr}=20021.90$   $\lambda^*=1.21$   
 Curva a:  $\Phi=1.34$   $\chi_{min}=0.52$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
 Verifica:  $0.28+0.01=0.28$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.03$  (L/8443)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/8924)  $f_{z,L}=0.02$  (L/12688)
- Verifica a compressione [4.2.9] - CC 49 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-4034.55$   $T=8.24$   $M_x=6.67$   
 $N,Ed=-4034.55$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.14$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-3873.37$   $T=8.24$   $M_x=6.85$   
 $V,Ed=8.24$   $V_c,Rd,Red=10167.20$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1=1.08$  - Classe 3  
 Sollecitazioni:  $N=-1702.31$   $M=3.30$   $M_x=3.78$   
 Tensioni:  $\sigma_N=-205.25$   $\sigma_M=-25.52$   $\tau=14.59$   $\sigma_{max}=-230.77$   
 Tensioni:  $\sigma_N=-205.25$   $\sigma_M=-0.00$   $\tau=14.59$   $\tau_{max}=14.59$   
 Tensioni:  $\sigma_N=-205.25$   $\sigma_M=-25.52$   $\tau=14.59$   $\sigma_{ID,max}=232.15$

Asta n. 3959 (-13300 -13991) Tubo  $60 \times 60 \times 4$  mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1489.48$   $M_y,Ed=-2.64$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $N_{cr,y}=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $N_{cr,z}=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
 Verifica YY:  $0.07+0.01=0.08$   
 Verifica ZZ:  $0.07=0.07$
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.00$  (L/31570)
- Verifica a compressione [4.2.9] - CC 45 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-1489.48$   $T_2=7.08$   $M_x=-12.61$   
 $N,Ed=-1489.48$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.07$

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- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-1409.20$   $T_z=7.08$   $M_x=-13.68$   
 $V,Ed=7.08$   $V_c,Rd,Red=5544.87$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.75$  - Classe 3  
 Sollecitazioni:  $N=-895.33$   $M_y=-1.95$   $M_x=-6.46$   
 Tensioni:  $\sigma_N=-99.92$   $\sigma_M=-12.45$   $\tau=25.76$   $\sigma_{max}=-112.37$   
 Tensioni:  $\sigma_N=-99.92$   $\sigma_M=12.45$   $\tau=25.76$   $\tau_{max}=25.76$   
 Tensioni:  $\sigma_N=-99.92$   $\sigma_M=-12.45$   $\tau=25.76$   $\sigma_{ID,max}=120.90$

Asta n. 3960 (-13296 -13959) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1496.95$   $M_y,Ed=-2.63$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $N_{cr,y}=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $N_{cr,z}=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.59, 0.00, 0.99$   
 Verifica YY:  $0.07+0.01=0.08$   
 Verifica ZZ:  $0.07=0.07$

- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L}=0.00$  (L/32528)

- Verifica a compressione [4.2.9] - CC 45 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-1496.95$   $T_z=7.07$   $M_x=12.45$   
 $N,Ed=-1496.95$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.07$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-1414.76$   $T_z=7.07$   $M_x=13.44$   
 $V,Ed=7.07$   $V_c,Rd,Red=5549.07$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.75$  - Classe 3  
 Sollecitazioni:  $N=-867.39$   $M_y=-1.95$   $M_x=6.80$   
 Tensioni:  $\sigma_N=-96.81$   $\sigma_M=-12.42$   $\tau=27.10$   $\sigma_{max}=-109.23$   
 Tensioni:  $\sigma_N=-96.81$   $\sigma_M=12.42$   $\tau=27.10$   $\tau_{max}=27.10$   
 Tensioni:  $\sigma_N=-96.81$   $\sigma_M=-12.42$   $\tau=27.10$   $\sigma_{ID,max}=118.89$

Asta n. 3965 (-2481 -13903) Tubo circolare d=70x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-5301.28$   $M,Ed=4.73$   
 Resistenze:  $N_c,Rd=28041.00$   $M_c,Rd=575.38$   $L=220.67$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, ----, ----$   
 $\lambda=94.39$   $N_{cr}=19292.30$   $\lambda^*=1.24$   
 Curva a:  $\Phi=1.37$   $\chi_{min}=0.51$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.23, ----, ----, ----$   
 Verifica:  $0.37+0.01=0.38$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9573)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.03$  (L/7668)  $f_{z,L}=0.02$  (L/11856)

- Verifica a compressione [4.2.9] - CC 75 SLU  $X_1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-5301.28$   $T=8.59$   $M_x=-2.64$   
 $N,Ed=-5301.28$   $N_c,Rd=-28041.00$   $N,Ed/N_c,Rd=0.19$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU  $X_1=2.20$   
 Sollecitazioni:  $N=-4375.56$   $T=8.59$   $M_x=-3.97$   
 $V,Ed=8.59$   $V_c,Rd,Red=10225.90$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=1.10$  - Classe 3  
 Sollecitazioni:  $N=-2363.30$   $M=3.51$   $M_x=-2.91$   
 Tensioni:  $\sigma_N=-284.95$   $\sigma_M=-27.08$   $\tau=11.22$   $\sigma_{max}=-312.03$   
 Tensioni:  $\sigma_N=-284.95$   $\sigma_M=17.41$   $\tau=11.22$   $\tau_{max}=11.22$   
 Tensioni:  $\sigma_N=-284.95$   $\sigma_M=-27.08$   $\tau=11.22$   $\sigma_{ID,max}=312.63$

Asta n. 3966 (-2482 -13907) Tubo circolare d=70x4 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
 Sollecitazioni: N,Ed=-5292.63 M,Ed=4.74  
 Resistenze: Nc,Rd=28041.00 M,c,Rd=575.38 L=220.67  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=94.39$  Ncr=19292.30  $\lambda^*=1.24$   
 Curva a:  $\Phi=1.37$   $\chi_{\min}=0.51$   
 Kyy, Kyz, Kzy, Kzz=1.23, ----, ----, ----  
 Verifica: 0.37+0.01=0.38

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/9601)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.03$  (L/7636)  $f_{z,L}=0.02$  (L/11805)

- Verifica a compressione [4.2.9] - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-5292.63 T=8.60 Mx=2.74  
 N,Ed=-5292.63 Nc,Rd=-28041.00 N,Ed/Nc,Rd=0.19

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=2.21  
 Sollecitazioni: N=-5225.00 T=8.60 Mx=4.17  
 V,Ed=8.60 Vc,Rd,Red=10221.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.10 - Classe 3  
 Sollecitazioni: N=-2207.00 M=3.51 Mx=2.51  
 Tensioni:  $\sigma_N=-266.10$   $\sigma_M=-27.12$   $\tau=9.68$   $\sigma_{\max}=-293.23$   
 Tensioni:  $\sigma_N=-266.10$   $\sigma_M=-26.71$   $\tau=9.68$   $\tau_{\max}=9.68$   
 Tensioni:  $\sigma_N=-266.10$   $\sigma_M=-27.12$   $\tau=9.68$   $\sigma_{ID,\max}=293.71$

Asta n. 3967 (-12577 -13314) Tubo 60x60x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-1515.03 My,Ed=-2.64  
 Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
 Verifica YY: 0.08+0.01=0.08  
 Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 104  
 $f_{z,g}=0.00$  (L/32556)

- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-1515.03 Tz=7.08 Mx=-11.98  
 N,Ed=-1515.03 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
 Sollecitazioni: N=-1430.38 Tz=-7.08 Mx=-12.98  
 V,Ed=-7.08 Vc,Rd,Red=5557.21 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
 Sollecitazioni: N=-893.93 My=-1.95 Mx=-6.05  
 Tensioni:  $\sigma_N=-99.77$   $\sigma_M=-12.44$   $\tau=24.11$   $\sigma_{\max}=-112.21$   
 Tensioni:  $\sigma_N=-99.77$   $\sigma_M=12.44$   $\tau=24.11$   $\tau_{\max}=24.11$   
 Tensioni:  $\sigma_N=-99.77$   $\sigma_M=-12.44$   $\tau=24.11$   $\sigma_{ID,\max}=119.73$

Asta n. 3968 (-12573 -13282) Tubo 60x60x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-1520.38 My,Ed=-2.63  
 Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,y=43923.40  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.40  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 Kyy, Kyz, Kzy, Kzz=0.99, 0.59, 0.00, 0.99  
 Verifica YY: 0.08+0.01=0.08  
 Verifica ZZ: 0.08=0.08



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- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,L}=0.00$  (L/32192)
- Verifica a compressione [4.2.9] - CC 45 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1520.38$   $T_z=7.07$   $M_x=11.87$   
 $N,Ed=-1520.38$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_1=1.49$   
Sollecitazioni:  $N=-1433.72$   $T_z=-7.07$   $M_x=12.81$   
 $V,Ed=-7.07$   $V_c,Rd,Red=5560.37$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.75$  - Classe 3  
Sollecitazioni:  $N=-867.46$   $M_y=-1.95$   $M_x=6.59$   
Tensioni:  $\sigma_N=-96.81$   $\sigma_M=-12.42$   $\tau=26.29$   $\sigma_{max}=-109.24$   
Tensioni:  $\sigma_N=-96.81$   $\sigma_M=12.42$   $\tau=26.29$   $\tau_{max}=26.29$   
Tensioni:  $\sigma_N=-96.81$   $\sigma_M=-12.42$   $\tau=26.29$   $\sigma_{TD,max}=118.35$

Asta n. 3969 (-2491 -13296) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-7405.30$   $M,Ed=6.54$   
Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=224.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=73.80$   $N_{cr}=41125.30$   $\lambda^*=0.97$   
Curva a:  $\Phi=1.05$   $\chi_{,min}=0.69$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.29+0.01=0.30$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10391)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9415)  $f_{z,L}=0.01$  (L/18388)

- Verifica a compressione [4.2.9] - CC 75 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-7405.30$   $T=11.66$   
 $N,Ed=-7405.30$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.20$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X_1=0.00$   
Sollecitazioni:  $N=-5302.71$   $T=11.66$   $M_x=8.85$   
 $V,Ed=11.66$   $V_c,Rd,Red=13293.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_1=1.12$  - Classe 3  
Sollecitazioni:  $N=-3134.07$   $M=4.85$   $M_x=-2.68$   
Tensioni:  $\sigma_N=-290.00$   $\sigma_M=-21.79$   $\tau=6.03$   $\sigma_{max}=-311.79$   
Tensioni:  $\sigma_N=-290.00$   $\sigma_M=18.87$   $\tau=6.03$   $\tau_{max}=6.03$   
Tensioni:  $\sigma_N=-290.00$   $\sigma_M=-21.79$   $\tau=6.03$   $\sigma_{TD,max}=311.96$

Asta n. 3970 (-2492 -13300) Tubo circolare  $d=90 \times 4$  mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-7388.71$   $M,Ed=6.55$   
Resistenze:  $N_c,Rd=36538.20$   $M,c,Rd=976.45$   $L=224.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=73.80$   $N_{cr}=41125.30$   $\lambda^*=0.97$   
Curva a:  $\Phi=1.05$   $\chi_{,min}=0.69$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.16, \text{----}, \text{----}, \text{----}$   
Verifica:  $0.29+0.01=0.30$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10399)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9517)  $f_{z,L}=0.01$  (L/18547)

- Verifica a compressione [4.2.9] - CC 54 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-7388.71$   $T=11.67$   $M_x=1.26$   
 $N,Ed=-7388.71$   $N_c,Rd=-36538.20$   $N,Ed/N_c,Rd=0.20$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU  $X_1=0.00$   
Sollecitazioni:  $N=-5190.23$   $T=11.67$   $M_x=9.72$

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V,Ed=11.67 Vc,Rd,Red=13279.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.12 - Classe 3

Sollecitazioni: N=-3058.04 M=4.85 M<sub>x</sub>=2.76

Tensioni:  $\sigma_N=-282.97$   $\sigma_M=-21.82$   $\tau=6.20$   $\sigma_{max}=-304.78$

Tensioni:  $\sigma_N=-282.97$   $\sigma_M=18.89$   $\tau=6.20$   $\tau_{max}=6.20$

Tensioni:  $\sigma_N=-282.97$   $\sigma_M=-21.82$   $\tau=6.20$   $\sigma_{ID,max}=304.97$

Asta n. 3972 (-2481 -2570) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3377)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3014)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=2689.12 T<sub>z</sub>=214.13 M<sub>y</sub>=-20.09 T<sub>y</sub>=-288.67 M<sub>z</sub>=124.61 M<sub>x</sub>=-24.60

Tensioni:  $\sigma_N=206.85$   $\sigma_M=596.97$   $\tau=59.63$   $\sigma_{max}=803.83$

Tensioni:  $\sigma_N=206.85$   $\sigma_M=62.17$   $\tau=117.05$   $\tau_{max}=117.05$

Tensioni:  $\sigma_N=206.85$   $\sigma_M=596.97$   $\tau=59.63$   $\sigma_{ID,max}=810.44$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=1247.77 T<sub>z</sub>=115.21 M<sub>y</sub>=-24.07 T<sub>y</sub>=-121.92 M<sub>z</sub>=52.92 M<sub>x</sub>=-14.49

Tensioni:  $\sigma_N=95.98$   $\sigma_M=308.45$   $\tau=35.13$   $\sigma_{max}=404.43$

Tensioni:  $\sigma_N=95.98$   $\sigma_M=74.48$   $\tau=59.39$   $\tau_{max}=59.39$

Tensioni:  $\sigma_N=95.98$   $\sigma_M=308.45$   $\tau=35.13$   $\sigma_{ID,max}=408.98$

Asta n. 3972 (-2570 -3012) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3402)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3074)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=2770.39 T<sub>z</sub>=290.44 M<sub>y</sub>=-80.32 T<sub>y</sub>=-286.14 M<sub>z</sub>=60.63 M<sub>x</sub>=-15.31

Tensioni:  $\sigma_N=184.69$   $\sigma_M=415.53$   $\tau=29.31$   $\sigma_{max}=600.22$

Tensioni:  $\sigma_N=184.69$   $\sigma_M=184.17$   $\tau=85.37$   $\tau_{max}=85.37$

Tensioni:  $\sigma_N=184.69$   $\sigma_M=415.53$   $\tau=29.31$   $\sigma_{ID,max}=602.36$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU Xl=0.22

Sollecitazioni: N=1170.79 T<sub>z</sub>=144.66 M<sub>y</sub>=-67.95 T<sub>y</sub>=-115.03 M<sub>x</sub>=-4.17

V,Ed=-115.03 Vc,Rd,Red=10935.40 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=144.66 Vc,Rd,Red=18225.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=1250.01 T<sub>z</sub>=115.07 M<sub>y</sub>=-38.37 T<sub>y</sub>=-121.83 M<sub>z</sub>=26.02 M<sub>x</sub>=-14.49

Tensioni:  $\sigma_N=83.33$   $\sigma_M=188.26$   $\tau=27.74$   $\sigma_{max}=271.59$

Tensioni:  $\sigma_N=83.33$   $\sigma_M=87.98$   $\tau=51.59$   $\tau_{max}=51.59$

Tensioni:  $\sigma_N=83.33$   $\sigma_M=188.26$   $\tau=27.74$   $\sigma_{ID,max}=275.81$

Asta n. 3972 (-3012 -4518) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.22 - Classe 3

Sollecitazioni: N=2777.46 T<sub>z</sub>=286.79 M<sub>y</sub>=-208.71 T<sub>y</sub>=-287.44 M<sub>z</sub>=-66.92 M<sub>x</sub>=-15.25

Tensioni:  $\sigma_N=146.18$   $\sigma_M=468.90$   $\tau=17.68$   $\sigma_{max}=615.08$

Tensioni:  $\sigma_N=146.18$   $\sigma_M=305.63$   $\tau=59.36$   $\tau_{max}=59.36$

Tensioni:  $\sigma_N=146.18$   $\sigma_M=468.90$   $\tau=17.68$   $\sigma_{ID,max}=615.84$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU Xl=0.00

Sollecitazioni: N=1170.74 T<sub>z</sub>=144.62 M<sub>y</sub>=-67.95 T<sub>y</sub>=-115.57 M<sub>x</sub>=-4.14

V,Ed=-115.57 Vc,Rd,Red=14799.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=144.62 Vc,Rd,Red=22198.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.22$  - Classe 3  
 Sollecitazioni:  $N=1207.77$   $T_z=108.62$   $M_y=-76.30$   $T_y=-124.79$   $M_z=-29.09$   $M_x=-13.86$   
 Tensioni:  $\sigma_N=63.57$   $\sigma_M=180.78$   $\tau=16.07$   $\sigma_{max}=244.35$   
 Tensioni:  $\sigma_N=63.57$   $\sigma_M=111.73$   $\tau=34.16$   $\tau_{max}=34.16$   
 Tensioni:  $\sigma_N=63.57$   $\sigma_M=180.78$   $\tau=16.07$   $\sigma_{ID,max}=245.93$
  
- Asta n. 3972 (-4518 -7996) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1174.03$   $M_y,Ed=-174.25$   $M_z,Ed=-74.62$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.90$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.37$   $N_{cr,y}=13631500.00$   $\lambda'_{y^*}=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.41$   $N_{cr,z}=7171120.00$   $\lambda'_{z^*}=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.06+0.04=0.13$   
 Verifica ZZ:  $0.02+0.05+0.04=0.11$
  
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=2573.60$   $T_z=-535.26$   $M_y=-187.21$   $T_y=-181.94$   $M_z=-81.11$   $M_x=-12.93$   
 Tensioni:  $\sigma_N=135.45$   $\sigma_M=463.27$   $\tau=14.99$   $\sigma_{max}=598.72$   
 Tensioni:  $\sigma_N=135.45$   $\sigma_M=-143.68$   $\tau=69.35$   $\tau_{max}=69.35$   
 Tensioni:  $\sigma_N=135.45$   $\sigma_M=463.27$   $\tau=14.99$   $\sigma_{ID,max}=599.28$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.22$   
 Sollecitazioni:  $N=-1170.11$   $T_z=-800.23$   $T_y=-104.67$   $M_z=-72.35$   $M_x=-10.73$   
 $V,Ed=-104.67$   $V_c,Rd,Red=14741.00$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-800.23$   $V_c,Rd,Red=22111.60$   $V,Ed/V_c,Rd,Red=0.04$
  
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1070.55$   $T_z=-210.84$   $M_y=-68.68$   $T_y=-78.58$   $M_z=-35.41$   $M_x=-12.30$   
 Tensioni:  $\sigma_N=56.34$   $\sigma_M=181.40$   $\tau=14.27$   $\sigma_{max}=237.74$   
 Tensioni:  $\sigma_N=56.34$   $\sigma_M=-62.72$   $\tau=35.68$   $\tau_{max}=35.68$   
 Tensioni:  $\sigma_N=56.34$   $\sigma_M=181.40$   $\tau=14.27$   $\sigma_{ID,max}=239.02$
  
- Asta n. 3972 (-7996 -12571) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1983.86$   $M_y,Ed=-7.12$   $M_z,Ed=-112.32$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=20.16$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.53$   $N_{cr,y}=19152400.00$   $\lambda'_{y^*}=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.25$   $N_{cr,z}=10075500.00$   $\lambda'_{z^*}=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.00+0.06=0.10$   
 Verifica ZZ:  $0.03+0.00+0.06=0.10$
  
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=2819.79$   $T_z=-253.55$   $M_y=-21.16$   $T_y=-262.46$   $M_z=-188.40$   $M_x=-12.75$   
 Tensioni:  $\sigma_N=148.41$   $\sigma_M=415.21$   $\tau=14.78$   $\sigma_{max}=563.62$   
 Tensioni:  $\sigma_N=148.41$   $\sigma_M=30.99$   $\tau=52.84$   $\tau_{max}=52.84$   
 Tensioni:  $\sigma_N=148.41$   $\sigma_M=415.21$   $\tau=14.78$   $\sigma_{ID,max}=564.20$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $Xl=0.16$   
 Sollecitazioni:  $N=1998.74$   $T_z=-102.00$   $T_y=-173.63$   $M_z=-123.50$   $M_x=-36.16$   
 $V,Ed=-173.63$   $V_c,Rd,Red=14517.00$   $V,Ed/V_c,Rd,Red=0.01$
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-102.00$   $V_c,Rd,Red=21775.50$   $V,Ed/V_c,Rd,Red=0.00$
  
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=1195.36$   $T_z=-155.74$   $M_y=-23.78$   $T_y=-112.98$   $M_z=-81.55$   $M_x=-12.09$   
 Tensioni:  $\sigma_N=62.91$   $\sigma_M=203.08$   $\tau=14.02$   $\sigma_{max}=265.99$   
 Tensioni:  $\sigma_N=62.91$   $\sigma_M=34.83$   $\tau=30.41$   $\tau_{max}=30.41$   
 Tensioni:  $\sigma_N=62.91$   $\sigma_M=203.08$   $\tau=14.02$   $\sigma_{ID,max}=267.10$
  
- Asta n. 3973 (-2482 -2571) Tubo 60x80x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3389)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3024)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2655.81$   $T_z=221.25$   $M_y=-19.31$   $T_y=280.64$   $M_z=-121.02$   $M_x=17.87$   
Tensioni:  $\sigma_N=204.29$   $\sigma_M=579.03$   $\tau=43.31$   $\sigma_{max}=783.32$   
Tensioni:  $\sigma_N=204.29$   $\sigma_M=59.76$   $\tau=99.15$   $\tau_{max}=99.15$   
Tensioni:  $\sigma_N=204.29$   $\sigma_M=579.03$   $\tau=43.31$   $\sigma_{ID,max}=786.90$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1131.59$   $T_z=107.05$   $M_y=-15.55$   $T_y=116.56$   $M_z=-50.54$   $M_x=12.87$   
Tensioni:  $\sigma_N=87.05$   $\sigma_M=268.33$   $\tau=31.20$   $\sigma_{max}=355.37$   
Tensioni:  $\sigma_N=87.05$   $\sigma_M=48.13$   $\tau=54.39$   $\tau_{max}=54.39$   
Tensioni:  $\sigma_N=87.05$   $\sigma_M=268.33$   $\tau=31.20$   $\sigma_{ID,max}=359.46$

Asta n. 3973 (-2571 -3013) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3427)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3064)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2740.49$   $T_z=297.56$   $M_y=-83.25$   $T_y=280.04$   $M_z=-59.26$   $M_x=10.03$   
Tensioni:  $\sigma_N=182.70$   $\sigma_M=418.24$   $\tau=19.20$   $\sigma_{max}=600.94$   
Tensioni:  $\sigma_N=182.70$   $\sigma_M=190.89$   $\tau=74.08$   $\tau_{max}=74.08$   
Tensioni:  $\sigma_N=182.70$   $\sigma_M=418.24$   $\tau=19.20$   $\sigma_{ID,max}=601.86$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.22$   
Sollecitazioni:  $N=1698.42$   $T_z=212.58$   $M_y=-102.16$   $T_y=138.65$   $M_x=-19.11$   
 $V,Ed=138.65$   $Vc,Rd,Red=10774.60$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=212.58$   $Vc,Rd,Red=17957.70$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1160.33$   $T_z=107.19$   $M_y=-32.30$   $T_y=118.63$   $M_z=-25.06$   $M_x=12.28$   
Tensioni:  $\sigma_N=77.36$   $\sigma_M=169.45$   $\tau=23.50$   $\sigma_{max}=246.81$   
Tensioni:  $\sigma_N=77.36$   $\sigma_M=74.05$   $\tau=46.73$   $\tau_{max}=46.73$   
Tensioni:  $\sigma_N=77.36$   $\sigma_M=169.45$   $\tau=23.50$   $\sigma_{ID,max}=250.14$

Asta n. 3973 (-3013 -5000) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=2747.91$   $T_z=293.51$   $M_y=-222.22$   $T_y=282.49$   $M_z=73.11$   $M_x=9.91$   
Tensioni:  $\sigma_N=144.63$   $\sigma_M=503.02$   $\tau=11.49$   $\sigma_{max}=647.64$   
Tensioni:  $\sigma_N=144.63$   $\sigma_M=325.42$   $\tau=52.47$   $\tau_{max}=52.47$   
Tensioni:  $\sigma_N=144.63$   $\sigma_M=503.02$   $\tau=11.49$   $\sigma_{ID,max}=647.95$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.00$   
Sollecitazioni:  $N=1698.31$   $T_z=212.44$   $M_y=-102.14$   $T_y=140.19$   $M_x=-19.19$   
 $V,Ed=140.19$   $Vc,Rd,Red=14666.50$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=212.44$   $Vc,Rd,Red=21999.80$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=1166.14$   $T_z=104.70$   $M_y=-78.77$   $T_y=119.63$   $M_z=31.01$   $M_x=12.25$   
Tensioni:  $\sigma_N=61.38$   $\sigma_M=188.60$   $\tau=14.20$   $\sigma_{max}=249.98$   
Tensioni:  $\sigma_N=61.38$   $\sigma_M=115.34$   $\tau=31.54$   $\tau_{max}=31.54$   
Tensioni:  $\sigma_N=61.38$   $\sigma_M=188.60$   $\tau=14.20$   $\sigma_{ID,max}=251.18$

Asta n. 3973 (-5000 -7997) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1227.89$   $My,Ed=-178.48$   $Mz,Ed=76.70$

Resistenze:  $N_c, R_d=64238.10$   $M_y, c, R_d=2116.38$   $M_z, c, R_d=1670.05$   $L=21.36$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=4.80$   $N_{cr,y}=17068100.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=6.62$   $N_{cr,z}=8979040.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.02+0.07+0.04=0.13$

Verifica ZZ:  $0.02+0.05+0.04=0.12$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2582.91$   $T_z=-614.62$   $M_y=-196.11$   $T_y=197.97$   $M_z=82.27$   $M_x=8.62$   
Tensioni:  $\sigma_N=135.94$   $\sigma_M=479.83$   $\tau=9.99$   $\sigma_{max}=615.77$   
Tensioni:  $\sigma_N=135.94$   $\sigma_M=-145.73$   $\tau=72.41$   $\tau_{max}=72.41$   
Tensioni:  $\sigma_N=135.94$   $\sigma_M=479.83$   $\tau=9.99$   $\sigma_{ID,max}=616.02$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.17$   
Sollecitazioni:  $N=1003.27$   $T_z=-115.98$   $T_y=80.68$   $M_z=49.84$   $M_x=16.97$   
 $V, Ed=80.68$   $V_c, R_d, Red=14686.10$   $V, Ed/V_c, R_d, Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-115.98$   $V_c, R_d, Red=22029.10$   $V, Ed/V_c, R_d, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1059.32$   $T_z=-235.25$   $M_y=-69.86$   $T_y=83.33$   $M_z=35.10$   $M_x=11.11$   
Tensioni:  $\sigma_N=55.75$   $\sigma_M=182.66$   $\tau=12.88$   $\sigma_{max}=238.41$   
Tensioni:  $\sigma_N=55.75$   $\sigma_M=-62.18$   $\tau=36.77$   $\tau_{max}=36.77$   
Tensioni:  $\sigma_N=55.75$   $\sigma_M=182.66$   $\tau=12.88$   $\sigma_{ID,max}=239.45$

Asta n. 3973 (-7997 -12579) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-2088.40$   $M_y, Ed=-4.94$   $M_z, Ed=108.68$   
Resistenze:  $N_c, R_d=64238.10$   $M_y, c, R_d=2116.38$   $M_z, c, R_d=1670.05$   $L=20.16$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.53$   $N_{cr,y}=19152400.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.25$   $N_{cr,z}=10075500.00$   $\lambda^*_z=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.00+0.06=0.10$   
Verifica ZZ:  $0.03+0.00+0.06=0.10$
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2706.96$   $T_z=-272.29$   $M_y=-78.77$   $T_y=212.49$   $M_z=136.45$   $M_x=6.40$   
Tensioni:  $\sigma_N=142.47$   $\sigma_M=402.07$   $\tau=7.43$   $\sigma_{max}=544.54$   
Tensioni:  $\sigma_N=142.47$   $\sigma_M=115.35$   $\tau=38.27$   $\tau_{max}=38.27$   
Tensioni:  $\sigma_N=142.47$   $\sigma_M=402.07$   $\tau=7.43$   $\sigma_{ID,max}=544.70$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.16$   
Sollecitazioni:  $N=-2085.42$   $T_z=-24.79$   $T_y=122.66$   $M_z=104.19$   $M_x=9.77$   
 $V, Ed=122.66$   $V_c, R_d, Red=14749.50$   $V, Ed/V_c, R_d, Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-24.79$   $V_c, R_d, Red=22124.30$   $V, Ed/V_c, R_d, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.20$  - Classe 3  
Sollecitazioni:  $N=1165.35$   $T_z=-140.97$   $M_y=-19.47$   $T_y=87.94$   $M_z=75.33$   $M_x=9.83$   
Tensioni:  $\sigma_N=61.33$   $\sigma_M=183.61$   $\tau=11.39$   $\sigma_{max}=244.94$   
Tensioni:  $\sigma_N=61.33$   $\sigma_M=-133.44$   $\tau=25.71$   $\tau_{max}=25.71$   
Tensioni:  $\sigma_N=61.33$   $\sigma_M=183.61$   $\tau=11.39$   $\sigma_{ID,max}=245.74$
- Asta n. 3977 (-11787 -12559) Tubo 60x60x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni:  $N, Ed=-1584.92$   $M_y, Ed=-2.63$   
Resistenze:  $N_c, R_d=20053.30$   $M_y, c, R_d=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $N_{cr,y}=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $N_{cr,z}=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.60, 0.00, 0.99$   
Verifica YY:  $0.08+0.01=0.09$   
Verifica ZZ:  $0.08=0.08$

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- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L}=0.00$  (L/32192)
- Verifica a compressione [4.2.9] - CC 45 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1584.92$   $T_z=7.07$   $M_x=10.40$   
 $N,Ed=-1584.92$   $Nc,Rd=-20053.30$   $N,Ed/Nc,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X1=0.00$   
Sollecitazioni:  $N=-1468.77$   $T_z=7.07$   $M_x=11.12$   
 $V,Ed=7.07$   $Vc,Rd,Red=5590.49$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.75$  - Classe 3  
Sollecitazioni:  $N=-841.66$   $M_y=-1.95$   $M_x=5.51$   
Tensioni:  $\sigma_N=-93.94$   $\sigma_M=-12.42$   $\tau=21.96$   $\sigma_{max}=-106.36$   
Tensioni:  $\sigma_N=-93.94$   $\sigma_M=12.42$   $\tau=21.96$   $\tau_{max}=21.96$   
Tensioni:  $\sigma_N=-93.94$   $\sigma_M=-12.42$   $\tau=21.96$   $\sigma_{TD,max}=112.96$

Asta n. 3978 (-11791 -12591) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-1579.80$   $M_y,Ed=-2.64$   
Resistenze:  $Nc,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$   $Ncr,y=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$   $Ncr,z=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.99, 0.60, 0.00, 0.99$   
Verifica YY:  $0.08+0.01=0.08$   
Verifica ZZ:  $0.08=0.08$
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.00$  (L/32221)
- Verifica a compressione [4.2.9] - CC 45 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1579.80$   $T_z=7.08$   $M_x=-10.56$   
 $N,Ed=-1579.80$   $Nc,Rd=-20053.30$   $N,Ed/Nc,Rd=0.08$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X1=0.00$   
Sollecitazioni:  $N=-1465.54$   $T_z=7.08$   $M_x=-11.35$   
 $V,Ed=7.08$   $Vc,Rd,Red=5586.38$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.75$  - Classe 3  
Sollecitazioni:  $N=-860.83$   $M_y=-1.95$   $M_x=-5.06$   
Tensioni:  $\sigma_N=-96.07$   $\sigma_M=-12.45$   $\tau=20.16$   $\sigma_{max}=-108.52$   
Tensioni:  $\sigma_N=-96.07$   $\sigma_M=12.45$   $\tau=20.16$   $\tau_{max}=20.16$   
Tensioni:  $\sigma_N=-96.07$   $\sigma_M=-12.45$   $\tau=20.16$   $\sigma_{TD,max}=114.00$

Asta n. 3979 (-2529 -12573) Tubo circolare d=90x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 1  
Sollecitazioni:  $N,Ed=-8327.48$   $M,Ed=6.38$   
Resistenze:  $Nc,Rd=36538.20$   $M,c,Rd=976.45$   $L=220.33$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, ----, ----$   
 $\lambda=72.39$   $Ncr=42748.00$   $\lambda^*=0.95$   
Curva a:  $\Phi=1.03$   $\chi_{min}=0.70$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.18, ----, ----, ----$   
Verifica:  $0.32+0.01=0.33$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10329)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9328)  $f_{z,L}=0.01$  (L/19565)
- Verifica a compressione [4.2.9] - CC 75 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-8327.48$   $T=11.60$   $M_x=10.52$   
 $N,Ed=-8327.48$   $Nc,Rd=-36538.20$   $N,Ed/Nc,Rd=0.23$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X1=0.00$   
Sollecitazioni:  $N=-6015.16$   $T=11.60$   $M_x=26.46$   
 $V,Ed=11.60$   $Vc,Rd,Red=13021.10$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.10 - Classe 3  
 Sollecitazioni: N=-3489.90 M=4.73 M<sub>x</sub>=8.05  
 Tensioni:  $\sigma_N=-322.93$   $\sigma_M=-21.26$   $\tau=18.08$   $\sigma_{max}=-344.18$   
 Tensioni:  $\sigma_N=-322.93$   $\sigma_M=18.41$   $\tau=18.08$   $\tau_{max}=18.08$   
 Tensioni:  $\sigma_N=-322.93$   $\sigma_M=-21.26$   $\tau=18.08$   $\sigma_{ID,max}=345.60$

Asta n. 3980 (-2530 -12577) Tubo circolare d=90x4 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 1  
 Sollecitazioni: N,Ed=-8333.97 M,Ed=6.39  
 Resistenze: Nc,Rd=36538.20 M,c,Rd=976.45 L=220.33  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, \text{----}, \text{----}$   
 $\lambda=72.39$  Ncr=42748.00  $\lambda^*=0.95$   
 Curva a:  $\Phi=1.03$   $\chi_{min}=0.70$   
 Kyy, Kyz, Kzy, Kzz=1.18, ----, ----, ----  
 Verifica: 0.32+0.01=0.33

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.02$  (L/10360)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.02$  (L/9410)  $f_{z,L}=0.01$  (L/19746)

- Verifica a compressione [4.2.9] - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-8333.97 T=11.61 M<sub>x</sub>=-8.45  
 N,Ed=-8333.97 Nc,Rd=-36538.20 N,Ed/Nc,Rd=0.23

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-8202.83 T=11.61 M<sub>x</sub>=-9.36  
 V,Ed=11.61 Vc,Rd,Red=13285.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=1.10 - Classe 3  
 Sollecitazioni: N=-3438.57 M=4.74 M<sub>x</sub>=-5.60  
 Tensioni:  $\sigma_N=-318.18$   $\sigma_M=-21.29$   $\tau=12.59$   $\sigma_{max}=-339.46$   
 Tensioni:  $\sigma_N=-318.18$   $\sigma_M=20.96$   $\tau=12.59$   $\tau_{max}=12.59$   
 Tensioni:  $\sigma_N=-318.18$   $\sigma_M=-21.29$   $\tau=12.59$   $\sigma_{ID,max}=340.16$

Asta n. 3981 (-2492 -2602) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3350)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2868)

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=3960.45 T<sub>z</sub>=349.00 M<sub>y</sub>=-37.90 T<sub>y</sub>=358.57 M<sub>z</sub>=-142.17 M<sub>x</sub>=40.26  
 Tensioni:  $\sigma_N=304.65$   $\sigma_M=734.08$   $\tau=97.60$   $\sigma_{max}=1038.73$   
 Tensioni:  $\sigma_N=304.65$   $\sigma_M=117.30$   $\tau=168.95$   $\tau_{max}=168.95$   
 Tensioni:  $\sigma_N=304.65$   $\sigma_M=734.08$   $\tau=97.60$   $\sigma_{ID,max}=1052.39$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1693.16 T<sub>z</sub>=154.75 M<sub>y</sub>=-19.60 T<sub>y</sub>=148.56 M<sub>z</sub>=-58.89 M<sub>x</sub>=22.37  
 Tensioni:  $\sigma_N=130.24$   $\sigma_M=317.84$   $\tau=54.24$   $\sigma_{max}=448.09$   
 Tensioni:  $\sigma_N=130.24$   $\sigma_M=60.65$   $\tau=83.80$   $\tau_{max}=83.80$   
 Tensioni:  $\sigma_N=130.24$   $\sigma_M=317.84$   $\tau=54.24$   $\sigma_{ID,max}=457.83$

Asta n. 3981 (-2602 -3007) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3399)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2964)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=4062.86 T<sub>z</sub>=427.83 M<sub>y</sub>=-112.12 T<sub>y</sub>=353.86 M<sub>z</sub>=-76.60 M<sub>x</sub>=28.86  
 Tensioni:  $\sigma_N=270.86$   $\sigma_M=552.08$   $\tau=55.24$   $\sigma_{max}=822.94$   
 Tensioni:  $\sigma_N=270.86$   $\sigma_M=257.08$   $\tau=124.58$   $\tau_{max}=124.58$   
 Tensioni:  $\sigma_N=270.86$   $\sigma_M=552.08$   $\tau=55.24$   $\sigma_{ID,max}=828.49$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1695.00$   $T_z=154.08$   $M_y=-43.70$   $T_y=148.58$   $M_z=-32.06$   $M_x=22.37$   
 Tensioni:  $\sigma_N=113.00$   $\sigma_M=222.85$   $\tau=42.82$   $\sigma_{max}=335.85$   
 Tensioni:  $\sigma_N=113.00$   $\sigma_M=100.20$   $\tau=71.91$   $\tau_{max}=71.91$   
 Tensioni:  $\sigma_N=113.00$   $\sigma_M=222.85$   $\tau=42.82$   $\sigma_{ID,max}=343.94$

Asta n. 3981 (-3007 -4377) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.21$  - Classe 3  
 Sollecitazioni:  $N=4069.33$   $T_z=424.74$   $M_y=-281.86$   $T_y=353.81$   $M_z=64.24$   $M_x=28.86$   
 Tensioni:  $\sigma_N=214.18$   $\sigma_M=580.32$   $\tau=33.47$   $\sigma_{max}=794.50$   
 Tensioni:  $\sigma_N=214.18$   $\sigma_M=412.75$   $\tau=84.79$   $\tau_{max}=84.79$   
 Tensioni:  $\sigma_N=214.18$   $\sigma_M=580.32$   $\tau=33.47$   $\sigma_{ID,max}=796.61$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.21$  - Classe 3  
 Sollecitazioni:  $N=1700.02$   $T_z=151.98$   $M_y=-102.44$   $T_y=148.56$   $M_z=27.09$   $M_x=22.37$   
 Tensioni:  $\sigma_N=89.47$   $\sigma_M=218.48$   $\tau=25.94$   $\sigma_{max}=307.95$   
 Tensioni:  $\sigma_N=89.47$   $\sigma_M=150.00$   $\tau=47.48$   $\tau_{max}=47.48$   
 Tensioni:  $\sigma_N=89.47$   $\sigma_M=218.48$   $\tau=25.94$   $\sigma_{ID,max}=311.21$

Asta n. 3981 (-4377 -7726) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-564.52$   $M_y, Ed=-213.76$   $M_z, Ed=79.60$   
 Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=24.10$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.42$   $N_{cr,y}=13403600.00$   $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.47$   $N_{cr,z}=7051230.00$   $\lambda'_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.08+0.05=0.13$   
 Verifica ZZ:  $0.01+0.06+0.05=0.12$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=3422.30$   $T_z=-660.15$   $M_y=-249.37$   $T_y=224.78$   $M_z=82.23$   $M_x=25.51$   
 Tensioni:  $\sigma_N=180.12$   $\sigma_M=564.83$   $\tau=29.57$   $\sigma_{max}=744.95$   
 Tensioni:  $\sigma_N=180.12$   $\sigma_M=-145.66$   $\tau=96.61$   $\tau_{max}=96.61$   
 Tensioni:  $\sigma_N=180.12$   $\sigma_M=564.83$   $\tau=29.57$   $\sigma_{ID,max}=746.71$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1387.36$   $T_z=-250.22$   $M_y=-90.97$   $T_y=93.98$   $M_z=34.88$   $M_x=20.22$   
 Tensioni:  $\sigma_N=73.02$   $\sigma_M=215.93$   $\tau=23.44$   $\sigma_{max}=288.95$   
 Tensioni:  $\sigma_N=73.02$   $\sigma_M=-61.78$   $\tau=48.85$   $\tau_{max}=48.85$   
 Tensioni:  $\sigma_N=73.02$   $\sigma_M=215.93$   $\tau=23.44$   $\sigma_{ID,max}=291.79$

Asta n. 3981 (-7726 -11793) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-1733.43$   $M_y, Ed=-22.14$   $M_z, Ed=116.68$   
 Resistenze:  $N_c, Rd=64238.10$   $M_y, c, Rd=2116.38$   $M_z, c, Rd=1670.05$   $L=19.96$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.49$   $N_{cr,y}=19542600.00$   $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.19$   $N_{cr,z}=10280800.00$   $\lambda'_z=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.01+0.07=0.10$   
 Verifica ZZ:  $0.03+0.01+0.07=0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.20$  - Classe 3  
 Sollecitazioni:  $N=3288.47$   $T_z=-305.49$   $M_y=-43.09$   $T_y=254.73$   $M_z=206.13$   $M_x=22.47$   
 Tensioni:  $\sigma_N=173.08$   $\sigma_M=486.14$   $\tau=26.06$   $\sigma_{max}=659.22$   
 Tensioni:  $\sigma_N=173.08$   $\sigma_M=63.09$   $\tau=63.01$   $\tau_{max}=63.01$   
 Tensioni:  $\sigma_N=173.08$   $\sigma_M=486.14$   $\tau=26.06$   $\sigma_{ID,max}=660.76$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.20$  - Classe 3  
 Sollecitazioni:  $N=1345.46$   $T_z=-152.60$   $M_y=-24.80$   $T_y=106.33$   $M_z=86.03$   $M_x=18.53$   
 Tensioni:  $\sigma_N=70.81$   $\sigma_M=213.78$   $\tau=21.48$   $\sigma_{max}=284.59$   
 Tensioni:  $\sigma_N=70.81$   $\sigma_M=-152.39$   $\tau=36.99$   $\tau_{max}=36.99$   
 Tensioni:  $\sigma_N=70.81$   $\sigma_M=213.78$   $\tau=21.48$   $\sigma_{ID,max}=287.02$



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Asta n. 3982 (-2491 -2601) Tubo 60x80x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,c}=0.01$  (L/3306)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2825)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=4016.71$   $T_z=336.55$   $M_y=-44.02$   $T_y=-370.21$   $M_z=146.74$   $M_x=-50.16$   
Tensioni:  $\sigma_N=308.98$   $\sigma_M=774.99$   $\tau=121.61$   $\sigma_{max}=1083.97$   
Tensioni:  $\sigma_N=308.98$   $\sigma_M=136.25$   $\tau=195.25$   $\tau_{max}=195.25$   
Tensioni:  $\sigma_N=308.98$   $\sigma_M=774.99$   $\tau=121.61$   $\sigma_{ID,max}=1104.24$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1729.24$   $T_z=162.92$   $M_y=-37.35$   $T_y=-143.13$   $M_z=56.79$   $M_x=-29.09$   
Tensioni:  $\sigma_N=133.02$   $\sigma_M=371.80$   $\tau=70.52$   $\sigma_{max}=504.82$   
Tensioni:  $\sigma_N=133.02$   $\sigma_M=115.59$   $\tau=99.00$   $\tau_{max}=99.00$   
Tensioni:  $\sigma_N=133.02$   $\sigma_M=371.80$   $\tau=70.52$   $\sigma_{ID,max}=519.38$

Asta n. 3982 (-2601 -3006) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3384)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2931)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=4018.94$   $T_z=335.34$   $M_y=-104.70$   $T_y=-370.31$   $M_z=79.87$   $M_x=-50.16$   
Tensioni:  $\sigma_N=267.93$   $\sigma_M=544.57$   $\tau=96.01$   $\sigma_{max}=812.50$   
Tensioni:  $\sigma_N=267.93$   $\sigma_M=240.07$   $\tau=168.51$   $\tau_{max}=168.51$   
Tensioni:  $\sigma_N=267.93$   $\sigma_M=544.57$   $\tau=96.01$   $\sigma_{ID,max}=829.34$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=1731.05$   $T_z=162.57$   $M_y=-55.67$   $T_y=-143.12$   $M_z=30.95$   $M_x=-29.09$   
Tensioni:  $\sigma_N=115.40$   $\sigma_M=249.48$   $\tau=55.68$   $\sigma_{max}=364.88$   
Tensioni:  $\sigma_N=115.40$   $\sigma_M=127.64$   $\tau=83.70$   $\tau_{max}=83.70$   
Tensioni:  $\sigma_N=115.40$   $\sigma_M=249.48$   $\tau=55.68$   $\sigma_{ID,max}=377.41$

Asta n. 3982 (-3006 -4376) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.21$  - Classe 3  
Sollecitazioni:  $N=4110.43$   $T_z=413.83$   $M_y=-272.76$   $T_y=-361.83$   $M_z=-65.78$   $M_x=-35.99$   
Tensioni:  $\sigma_N=216.34$   $\sigma_M=568.91$   $\tau=41.73$   $\sigma_{max}=785.25$   
Tensioni:  $\sigma_N=216.34$   $\sigma_M=399.43$   $\tau=94.21$   $\tau_{max}=94.21$   
Tensioni:  $\sigma_N=216.34$   $\sigma_M=568.91$   $\tau=41.73$   $\sigma_{ID,max}=788.57$
  - Verifica in termini tensionali [4.2.4] - CC 9 SND  $X1=0.21$  - Classe 3  
Sollecitazioni:  $N=1742.94$   $T_z=157.69$   $M_y=-102.58$   $T_y=-152.77$   $M_z=-27.87$   $M_x=-25.08$   
Tensioni:  $\sigma_N=91.73$   $\sigma_M=220.29$   $\tau=29.07$   $\sigma_{max}=312.02$   
Tensioni:  $\sigma_N=91.73$   $\sigma_M=150.21$   $\tau=51.22$   $\tau_{max}=51.22$   
Tensioni:  $\sigma_N=91.73$   $\sigma_M=220.29$   $\tau=29.07$   $\sigma_{ID,max}=316.06$

Asta n. 3982 (-4376 -7725) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-590.01$   $M_y,Ed=-214.94$   $M_z,Ed=-78.98$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=24.10$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.42$   $N_{cr,y}=13403600.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.47$   $N_{cr,z}=7051250.00$   $\lambda^*_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.08+0.04=0.13$   
Verifica ZZ:  $0.01+0.06+0.04=0.12$
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=3472.34$   $T_z=-639.96$   $M_y=-242.90$   $T_y=-226.04$   $M_z=-85.23$   $M_x=-31.82$   
Tensioni:  $\sigma_N=182.75$   $\sigma_M=560.59$   $\tau=36.89$   $\sigma_{max}=743.34$

Tensioni:  $\sigma_N=182.75$   $\sigma_M=-150.98$   $\tau=101.88$   $\tau_{max}=101.88$   
 Tensioni:  $\sigma_N=182.75$   $\sigma_M=560.59$   $\tau=36.89$   $\sigma_{ID,max}=746.08$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1415.88$   $T_z=-254.91$   $M_y=-91.60$   $T_y=-95.27$   $M_z=-36.32$   $M_x=-22.58$   
 Tensioni:  $\sigma_N=74.52$   $\sigma_M=219.88$   $\tau=26.18$   $\sigma_{max}=294.40$   
 Tensioni:  $\sigma_N=74.52$   $\sigma_M=-64.35$   $\tau=52.06$   $\tau_{max}=52.06$   
 Tensioni:  $\sigma_N=74.52$   $\sigma_M=219.88$   $\tau=26.18$   $\sigma_{ID,max}=297.87$

Asta n. 3982 (-7725 -11785) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1602.47$   $M_y,Ed=-20.41$   $M_z,Ed=-121.84$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=19.96$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.49$  Ncr,  $y=19542600.00$   $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.19$  Ncr,  $z=10280800.00$   $\lambda^*_z=0.08$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.01+0.07=0.10$   
 Verifica ZZ:  $0.02+0.01+0.07=0.10$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=3463.19$   $T_z=-250.65$   $M_y=-35.65$   $T_y=-329.81$   $M_z=-223.02$   $M_x=-44.43$   
 Tensioni:  $\sigma_N=182.27$   $\sigma_M=508.45$   $\tau=51.51$   $\sigma_{max}=690.72$   
 Tensioni:  $\sigma_N=182.27$   $\sigma_M=52.20$   $\tau=99.31$   $\tau_{max}=99.31$   
 Tensioni:  $\sigma_N=182.27$   $\sigma_M=508.45$   $\tau=51.51$   $\sigma_{ID,max}=696.46$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=1395.41$   $T_z=-163.46$   $M_y=-28.50$   $T_y=-137.41$   $M_z=-92.16$   $M_x=-22.28$   
 Tensioni:  $\sigma_N=73.44$   $\sigma_M=232.10$   $\tau=25.84$   $\sigma_{max}=305.54$   
 Tensioni:  $\sigma_N=73.44$   $\sigma_M=41.73$   $\tau=45.76$   $\tau_{max}=45.76$   
 Tensioni:  $\sigma_N=73.44$   $\sigma_M=232.10$   $\tau=25.84$   $\sigma_{ID,max}=308.80$

Asta n. 3987 (-11103 -11773) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1714.55$   $M_y,Ed=-2.63$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,  $z=43923.40$   $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=1.00, 0.60, 0.00, 1.00$   
 Verifica YY:  $0.09+0.01=0.09$   
 Verifica ZZ:  $0.09=0.09$

- Verifica Freccia massima carichi totali - CC 116  
 $f_{z,L}=0.00$  (L/31864)

- Verifica a compressione [4.2.9] - CC 45 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-1714.55$   $T_z=7.07$   $M_x=7.23$   
 $N,Ed=-1714.55$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.09$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=1.49$   
 Sollecitazioni:  $N=-1469.20$   $T_z=-7.07$   $M_x=7.39$   
 $V,Ed=-7.07$   $V_c,Rd,Red=5657.13$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.75$  - Classe 3  
 Sollecitazioni:  $N=-748.63$   $M_y=-1.95$   $M_x=3.40$   
 Tensioni:  $\sigma_N=-83.55$   $\sigma_M=-12.42$   $\tau=13.57$   $\sigma_{max}=-95.97$   
 Tensioni:  $\sigma_N=-83.55$   $\sigma_M=12.42$   $\tau=13.57$   $\tau_{max}=13.57$   
 Tensioni:  $\sigma_N=-83.55$   $\sigma_M=-12.42$   $\tau=13.57$   $\sigma_{ID,max}=98.81$

Asta n. 3988 (-11107 -11805) Tubo 60x60x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni:  $N,Ed=-1702.26$   $M_y,Ed=-2.64$   
 Resistenze:  $N_c,Rd=20053.30$   $M_y,c,Rd=421.84$   $L=149.03$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=65.02$  Ncr,  $y=43923.40$   $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$

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$\lambda_z=65.02$  Ncr, z=43923.40  $\lambda_z^*=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
Verifica YY: 0.08+0.01=0.09  
Verifica ZZ: 0.08=0.08

- Verifica Freccia massima carichi totali - CC 55  
 $f_{z,g}=0.00$  (L/31254)
  
- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-1702.26 T<sub>z</sub>=7.08 M<sub>x</sub>=-7.46  
N,Ed=-1702.26 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.08
  
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=1.49  
Sollecitazioni: N=-1460.85 T<sub>z</sub>=-7.08 M<sub>x</sub>=-7.71  
V,Ed=-7.08 Vc,Rd,Red=5651.33 V,Ed/Vc,Rd,Red=0.00
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
Sollecitazioni: N=-752.46 M<sub>y</sub>=-1.95 M<sub>x</sub>=-3.20  
Tensioni:  $\sigma_N=-83.98$   $\sigma_M=-12.44$   $\tau=12.76$   $\sigma_{max}=-96.42$   
Tensioni:  $\sigma_N=-83.98$   $\sigma_M=12.44$   $\tau=12.76$   $\tau_{max}=12.76$   
Tensioni:  $\sigma_N=-83.98$   $\sigma_M=-12.44$   $\tau=12.76$   $\sigma_{ID,max}=98.92$
  
- Asta n. 3991 (-2529 -2664) Tubo 60x80x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3445)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/2965)
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.14 - Classe 3  
Sollecitazioni: N=4089.42 T<sub>z</sub>=627.16 M<sub>y</sub>=-149.25 T<sub>y</sub>=-502.69 M<sub>z</sub>=124.75 M<sub>x</sub>=-94.26  
Tensioni:  $\sigma_N=314.57$   $\sigma_M=1054.42$   $\tau=228.50$   $\sigma_{max}=1368.99$   
Tensioni:  $\sigma_N=314.57$   $\sigma_M=461.95$   $\tau=328.55$   $\tau_{max}=328.55$   
Tensioni:  $\sigma_N=314.57$   $\sigma_M=1054.42$   $\tau=228.50$   $\sigma_{ID,max}=1425.05$
  
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU Xl=0.01  
Sollecitazioni: N=1739.04 T<sub>z</sub>=271.25 T<sub>y</sub>=-189.08 M<sub>z</sub>=71.71 M<sub>x</sub>=-21.21  
V,Ed=-189.08 Vc,Rd,Red=10589.20 V,Ed/Vc,Rd,Red=0.02
  
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=271.25 Vc,Rd,Red=14119.00 V,Ed/Vc,Rd,Red=0.02
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.14 - Classe 3  
Sollecitazioni: N=1724.02 T<sub>z</sub>=254.40 M<sub>y</sub>=-99.87 T<sub>y</sub>=-193.75 M<sub>z</sub>=47.80 M<sub>x</sub>=-53.41  
Tensioni:  $\sigma_N=132.62$   $\sigma_M=554.99$   $\tau=129.48$   $\sigma_{max}=687.61$   
Tensioni:  $\sigma_N=132.62$   $\sigma_M=-168.10$   $\tau=168.61$   $\tau_{max}=168.61$   
Tensioni:  $\sigma_N=132.62$   $\sigma_M=554.99$   $\tau=129.48$   $\sigma_{ID,max}=723.26$
  
- Asta n. 3991 (-2664 -2996) Tubo 60x100x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3454)
  
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/3008)
  
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=4089.41 T<sub>z</sub>=627.05 M<sub>y</sub>=-149.30 T<sub>y</sub>=-502.91 M<sub>z</sub>=124.69 M<sub>x</sub>=-94.25  
Tensioni:  $\sigma_N=272.63$   $\sigma_M=814.10$   $\tau=180.39$   $\sigma_{max}=1086.72$   
Tensioni:  $\sigma_N=272.63$   $\sigma_M=342.34$   $\tau=278.89$   $\tau_{max}=278.89$   
Tensioni:  $\sigma_N=272.63$   $\sigma_M=814.10$   $\tau=180.39$   $\sigma_{ID,max}=1130.75$
  
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.15 - Classe 3  
Sollecitazioni: N=1725.68 T<sub>z</sub>=253.31 M<sub>y</sub>=-137.26 T<sub>y</sub>=-193.84 M<sub>z</sub>=18.85 M<sub>x</sub>=-53.41  
Tensioni:  $\sigma_N=115.05$   $\sigma_M=415.30$   $\tau=102.22$   $\sigma_{max}=530.34$   
Tensioni:  $\sigma_N=115.05$   $\sigma_M=314.75$   $\tau=140.18$   $\tau_{max}=140.18$   
Tensioni:  $\sigma_N=115.05$   $\sigma_M=404.37$   $\tau=133.12$   $\sigma_{ID,max}=568.29$
  
- Asta n. 3991 (-2996 -4237) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=4095.10$   $T_z=624.43$   $M_y=-365.82$   $T_y=-502.54$   $M_z=-49.12$   $M_x=-94.25$   
 Tensioni:  $\sigma_N=215.53$   $\sigma_M=683.84$   $\tau=109.28$   $\sigma_{max}=899.38$   
 Tensioni:  $\sigma_N=215.53$   $\sigma_M=535.71$   $\tau=182.15$   $\tau_{max}=182.15$   
 Tensioni:  $\sigma_N=215.53$   $\sigma_M=671.41$   $\tau=166.51$   $\sigma_{ID,max}=932.66$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.11$   
 Sollecitazioni:  $N=2922.45$   $T_z=486.09$   $M_y=-237.03$   $T_y=-227.82$   $M_x=-66.37$   
 $V,Ed=-227.82$   $V_c,Rd,Red=14250.70$   $V,Ed/V_c,Rd,Red=0.02$
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=486.09$   $V_c,Rd,Red=21376.10$   $V,Ed/V_c,Rd,Red=0.02$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=1728.43$   $T_z=251.69$   $M_y=-186.14$   $T_y=-193.70$   $M_z=-19.44$   $M_x=-53.41$   
 Tensioni:  $\sigma_N=90.97$   $\sigma_M=336.71$   $\tau=61.92$   $\sigma_{max}=427.68$   
 Tensioni:  $\sigma_N=90.97$   $\sigma_M=272.58$   $\tau=90.01$   $\tau_{max}=90.01$   
 Tensioni:  $\sigma_N=90.97$   $\sigma_M=331.79$   $\tau=83.98$   $\sigma_{ID,max}=447.09$
- Asta n. 3991 (-4237 -7519) Tubo 80x120x5 mm - S355 Crit. 3
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-871.02$   $M_y,Ed=-274.66$   $M_z,Ed=-68.54$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=24.29$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.46$   $N_{cr,y}=13191200.00$   $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.53$   $N_{cr,z}=6939490.00$   $\lambda'_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.10+0.04=0.15$   
 Verifica ZZ:  $0.01+0.08+0.04=0.13$
  
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=3453.16$   $T_z=-755.70$   $M_y=-316.23$   $T_y=-320.35$   $M_z=-74.92$   $M_x=-88.38$   
 Tensioni:  $\sigma_N=181.75$   $\sigma_M=656.87$   $\tau=102.46$   $\sigma_{max}=838.61$   
 Tensioni:  $\sigma_N=181.75$   $\sigma_M=-132.72$   $\tau=179.20$   $\tau_{max}=179.20$   
 Tensioni:  $\sigma_N=181.75$   $\sigma_M=656.87$   $\tau=102.46$   $\sigma_{ID,max}=857.18$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1365.62$   $T_z=-403.44$   $M_y=-159.94$   $T_y=-122.81$   $M_z=-30.02$   $M_x=-50.22$   
 Tensioni:  $\sigma_N=71.87$   $\sigma_M=316.29$   $\tau=58.22$   $\sigma_{max}=388.16$   
 Tensioni:  $\sigma_N=71.87$   $\sigma_M=-53.18$   $\tau=99.18$   $\tau_{max}=99.18$   
 Tensioni:  $\sigma_N=71.87$   $\sigma_M=316.29$   $\tau=58.22$   $\sigma_{ID,max}=401.05$
- Asta n. 3991 (-7519 -9118) Tubo 80x120x5 mm - S355 Crit. 3
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2082.65$   $M_y,Ed=-60.53$   $M_z,Ed=-94.69$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.88$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.22$   $N_{cr,y}=79706200.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.06$   $N_{cr,z}=41931100.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.02+0.05=0.11$   
 Verifica ZZ:  $0.03+0.02+0.05=0.10$
  
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=3275.58$   $T_z=-584.78$   $M_y=-140.66$   $T_y=-365.19$   $M_z=-176.23$   $M_x=-87.28$   
 Tensioni:  $\sigma_N=172.40$   $\sigma_M=581.48$   $\tau=101.20$   $\sigma_{max}=753.87$   
 Tensioni:  $\sigma_N=172.40$   $\sigma_M=-312.18$   $\tau=160.60$   $\tau_{max}=160.60$   
 Tensioni:  $\sigma_N=172.40$   $\sigma_M=581.48$   $\tau=101.20$   $\sigma_{ID,max}=773.98$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1311.24$   $T_z=-324.43$   $M_y=-65.44$   $T_y=-139.69$   $M_z=-68.28$   $M_x=-49.57$   
 Tensioni:  $\sigma_N=69.01$   $\sigma_M=242.76$   $\tau=57.47$   $\sigma_{max}=311.77$   
 Tensioni:  $\sigma_N=69.01$   $\sigma_M=-120.95$   $\tau=90.41$   $\tau_{max}=90.41$   
 Tensioni:  $\sigma_N=69.01$   $\sigma_M=242.76$   $\tau=57.47$   $\sigma_{ID,max}=327.28$
- Asta n. 3991 (-9118 -11101) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-33.70 My,Ed=-63.04 Mz,Ed=-192.59  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.88  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.22$  Ncr,y=79706900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.06$  Ncr,z=41931500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.00+0.02+0.11=0.13  
 Verifica ZZ: 0.00+0.02+0.11=0.13

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=2881.91 T<sub>z</sub>=-227.19 M<sub>y</sub>=-62.66 T<sub>y</sub>=-376.68 M<sub>z</sub>=-257.52 M<sub>x</sub>=-87.09  
 Tensioni:  $\sigma_N=151.68$   $\sigma_M=621.44$   $\tau=100.97$   $\sigma_{max}=773.12$   
 Tensioni:  $\sigma_N=151.68$   $\sigma_M=91.76$   $\tau=155.55$   $\tau_{max}=155.55$   
 Tensioni:  $\sigma_N=151.68$   $\sigma_M=621.44$   $\tau=100.97$   $\sigma_{ID,max}=792.65$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=1195.63 T<sub>z</sub>=-140.51 M<sub>y</sub>=-31.44 T<sub>y</sub>=-151.95 M<sub>z</sub>=-103.83 M<sub>x</sub>=-39.90  
 Tensioni:  $\sigma_N=62.93$   $\sigma_M=260.43$   $\tau=46.26$   $\sigma_{max}=323.36$   
 Tensioni:  $\sigma_N=62.93$   $\sigma_M=46.05$   $\tau=68.28$   $\tau_{max}=68.28$   
 Tensioni:  $\sigma_N=62.93$   $\sigma_M=260.43$   $\tau=46.26$   $\sigma_{ID,max}=333.13$

Asta n. 3992 (-2530 -2665) Tubo 60x80x5 mm - S355 Crit. 3

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 - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3406)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/2921)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.14 - Classe 3  
 Sollecitazioni: N=4173.76 T<sub>z</sub>=661.49 M<sub>y</sub>=-146.89 T<sub>y</sub>=470.87 M<sub>z</sub>=-117.48 M<sub>x</sub>=63.02  
 Tensioni:  $\sigma_N=321.06$   $\sigma_M=1015.39$   $\tau=152.77$   $\sigma_{max}=1336.45$   
 Tensioni:  $\sigma_N=321.06$   $\sigma_M=-413.18$   $\tau=254.57$   $\tau_{max}=254.57$   
 Tensioni:  $\sigma_N=321.06$   $\sigma_M=1015.39$   $\tau=152.77$   $\sigma_{ID,max}=1362.39$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1642.96 T<sub>z</sub>=235.68 M<sub>y</sub>=-38.23 T<sub>y</sub>=188.72 M<sub>z</sub>=-74.36 M<sub>x</sub>=39.64  
 Tensioni:  $\sigma_N=126.38$   $\sigma_M=449.04$   $\tau=96.10$   $\sigma_{max}=575.43$   
 Tensioni:  $\sigma_N=126.38$   $\sigma_M=118.32$   $\tau=133.66$   $\tau_{max}=133.66$   
 Tensioni:  $\sigma_N=126.38$   $\sigma_M=449.04$   $\tau=96.10$   $\sigma_{ID,max}=599.02$

Asta n. 3992 (-2665 -2997) Tubo 60x100x5 mm - S355 Crit. 3

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 - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3454)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2965)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.15 - Classe 3  
 Sollecitazioni: N=4175.90 T<sub>z</sub>=660.22 M<sub>y</sub>=-245.98 T<sub>y</sub>=471.10 M<sub>z</sub>=-46.81 M<sub>x</sub>=63.02  
 Tensioni:  $\sigma_N=278.39$   $\sigma_M=789.51$   $\tau=120.61$   $\sigma_{max}=1067.90$   
 Tensioni:  $\sigma_N=278.39$   $\sigma_M=564.02$   $\tau=212.93$   $\tau_{max}=212.93$   
 Tensioni:  $\sigma_N=278.39$   $\sigma_M=762.37$   $\tau=195.71$   $\sigma_{ID,max}=1094.58$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1644.38 T<sub>z</sub>=234.99 M<sub>y</sub>=-70.08 T<sub>y</sub>=188.77 M<sub>z</sub>=-47.60 M<sub>x</sub>=39.64  
 Tensioni:  $\sigma_N=109.63$   $\sigma_M=344.10$   $\tau=75.87$   $\sigma_{max}=453.72$   
 Tensioni:  $\sigma_N=109.63$   $\sigma_M=160.68$   $\tau=112.84$   $\tau_{max}=112.84$   
 Tensioni:  $\sigma_N=109.63$   $\sigma_M=344.10$   $\tau=75.87$   $\sigma_{ID,max}=472.37$

Asta n. 3992 (-2997 -4181) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3645)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3218)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=4209.67$   $T_z=421.89$   $M_y=-329.09$   $T_y=473.28$   $M_z=49.83$   $M_x=65.43$   
 Tensioni:  $\sigma_N=221.56$   $\sigma_M=626.59$   $\tau=75.86$   $\sigma_{max}=848.15$   
 Tensioni:  $\sigma_N=221.56$   $\sigma_M=481.91$   $\tau=144.47$   $\tau_{max}=144.47$   
 Tensioni:  $\sigma_N=221.56$   $\sigma_M=613.98$   $\tau=129.76$   $\sigma_{ID,max}=865.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.09$   
 Sollecitazioni:  $N=4100.32$   $T_z=380.81$   $M_y=-257.90$   $T_y=483.75$   $M_x=81.48$   
 $V,Ed=483.75$   $Vc,Rd,Red=14117.60$   $V,Ed/Vc,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=380.81$   $Vc,Rd,Red=21176.40$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.20$  - Classe 3  
 Sollecitazioni:  $N=1658.60$   $T_z=146.78$   $M_y=-130.82$   $T_y=189.57$   $M_z=21.22$   $M_x=40.41$   
 Tensioni:  $\sigma_N=87.29$   $\sigma_M=251.94$   $\tau=46.85$   $\sigma_{max}=339.23$   
 Tensioni:  $\sigma_N=87.29$   $\sigma_M=191.56$   $\tau=74.33$   $\tau_{max}=74.33$   
 Tensioni:  $\sigma_N=87.29$   $\sigma_M=246.57$   $\tau=68.44$   $\sigma_{ID,max}=354.29$

Asta n. 3992 (-4181 -7553) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-859.95$   $M_y,Ed=-250.64$   $M_z,Ed=65.27$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=24.35$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=5.48$   $Ncr,y=13129100.00$   $\lambda'_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.55$   $Ncr,z=6906850.00$   $\lambda'_z=0.10$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.09+0.04=0.14$   
 Verifica ZZ:  $0.01+0.07+0.04=0.12$

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/4151)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3673)  $f_{z,L}=0.00$  (L/19269)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=3422.58$   $T_z=-562.00$   $M_y=-285.39$   $T_y=318.20$   $M_z=62.45$   $M_x=67.14$   
 Tensioni:  $\sigma_N=180.14$   $\sigma_M=582.35$   $\tau=77.84$   $\sigma_{max}=762.48$   
 Tensioni:  $\sigma_N=180.14$   $\sigma_M=-110.63$   $\tau=134.92$   $\tau_{max}=134.92$   
 Tensioni:  $\sigma_N=180.14$   $\sigma_M=582.35$   $\tau=77.84$   $\sigma_{ID,max}=774.31$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1337.04$   $T_z=-229.50$   $M_y=-113.54$   $T_y=126.96$   $M_z=25.36$   $M_x=40.12$   
 Tensioni:  $\sigma_N=70.37$   $\sigma_M=232.73$   $\tau=46.52$   $\sigma_{max}=303.10$   
 Tensioni:  $\sigma_N=70.37$   $\sigma_M=-44.93$   $\tau=69.83$   $\tau_{max}=69.83$   
 Tensioni:  $\sigma_N=70.37$   $\sigma_M=226.31$   $\tau=60.98$   $\sigma_{ID,max}=314.92$

Asta n. 3992 (-7553 -9122) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2105.25$   $M_y,Ed=-63.82$   $M_z,Ed=96.35$   
 Resistenze:  $Nc,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.89$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.22$   $Ncr,y=79641300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.07$   $Ncr,z=41897000.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.02+0.05=0.11$   
 Verifica ZZ:  $0.03+0.02+0.05=0.11$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=3223.42$   $T_z=-653.39$   $M_y=-157.07$   $T_y=339.68$   $M_z=166.61$   $M_x=50.60$   
 Tensioni:  $\sigma_N=169.65$   $\sigma_M=588.22$   $\tau=58.67$   $\sigma_{max}=757.87$   
 Tensioni:  $\sigma_N=169.65$   $\sigma_M=-295.13$   $\tau=125.04$   $\tau_{max}=125.04$   
 Tensioni:  $\sigma_N=169.65$   $\sigma_M=588.22$   $\tau=58.67$   $\sigma_{ID,max}=764.65$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=1296.01$   $T_z=-277.97$   $M_y=-60.48$   $T_y=140.71$   $M_z=69.75$   $M_x=32.56$

Tensioni:  $\sigma_N=68.21$   $\sigma_M=237.82$   $\tau=37.75$   $\sigma_{max}=306.03$   
 Tensioni:  $\sigma_N=68.21$   $\sigma_M=-123.55$   $\tau=65.98$   $\tau_{max}=65.98$   
 Tensioni:  $\sigma_N=68.21$   $\sigma_M=237.82$   $\tau=37.75$   $\sigma_{ID,max}=312.94$

Asta n. 3992 (-9122 -11109) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2324.79 My,Ed=-48.62 Mz,Ed=114.50  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=9.89  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.22$  Ncr,y=79641400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.07$  Ncr,z=41897000.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.02+0.07=0.12  
 Verifica ZZ: 0.04+0.01+0.07=0.12

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=2842.78 Tz=-231.91 My=-63.71 Ty=345.53 Mz=245.94 Mx=65.73  
 Tensioni:  $\sigma_N=149.62$   $\sigma_M=599.67$   $\tau=76.21$   $\sigma_{max}=749.29$   
 Tensioni:  $\sigma_N=149.62$   $\sigma_M=93.30$   $\tau=126.28$   $\tau_{max}=126.28$   
 Tensioni:  $\sigma_N=149.62$   $\sigma_M=599.67$   $\tau=76.21$   $\sigma_{ID,max}=760.83$

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=1158.08 Tz=-143.37 My=-30.99 Ty=141.32 Mz=100.00 Mx=32.59  
 Tensioni:  $\sigma_N=60.95$   $\sigma_M=251.95$   $\tau=37.78$   $\sigma_{max}=312.90$   
 Tensioni:  $\sigma_N=60.95$   $\sigma_M=45.39$   $\tau=58.27$   $\tau_{max}=58.27$   
 Tensioni:  $\sigma_N=60.95$   $\sigma_M=251.95$   $\tau=37.78$   $\sigma_{ID,max}=319.67$

Asta n. 3995 (-10352 -11121) Tubo 60x60x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-1807.99 My,Ed=-2.64  
 Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.50  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.50  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
 Verifica YY: 0.11+0.01=0.11  
 Verifica ZZ: 0.11=0.11

- Verifica Freccia massima carichi totali - CC 104  
 $f_{z,L}=0.00$  (L/32221)

- Verifica a compressione [4.2.9] - CC 45 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-1807.99 Tz=7.08 Mx=-3.72  
 N,Ed=-1807.99 Nc,Rd=-20053.30 N,Ed/Nc,Rd=0.09

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=-1349.87 Tz=7.08 Mx=-3.86  
 V,Ed=7.08 Vc,Rd,Red=5720.05 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.75 - Classe 3  
 Sollecitazioni: N=-581.33 My=-1.95 Mx=-2.97  
 Tensioni:  $\sigma_N=-64.88$   $\sigma_M=-12.45$   $\tau=11.85$   $\sigma_{max}=-77.33$   
 Tensioni:  $\sigma_N=-64.88$   $\sigma_M=12.45$   $\tau=11.85$   $\tau_{max}=11.85$   
 Tensioni:  $\sigma_N=-64.88$   $\sigma_M=-12.45$   $\tau=11.85$   $\sigma_{ID,max}=80.01$

Asta n. 3996 (-10325 -11089) Tubo 60x60x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 1  
 Sollecitazioni: N,Ed=-1811.47 My,Ed=-2.63  
 Resistenze: Nc,Rd=20053.30 My,c,Rd=421.84 L=149.03  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=65.02$  Ncr,y=43923.50  $\lambda^*_y=0.69$  Curva a:  $\Phi_y=0.79$   $\chi_y=0.85$   
 $\lambda_z=65.02$  Ncr,z=43923.50  $\lambda^*_z=0.69$  Curva a:  $\Phi_z=0.79$   $\chi_z=0.85$   
 Kyy, Kyz, Kzy, Kzz=1.00, 0.60, 0.00, 1.00  
 Verifica YY: 0.11+0.01=0.11  
 Verifica ZZ: 0.11=0.11

- Verifica Freccia massima carichi totali - CC 116

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$f_{z,L}=0.00$  (L/31850)

- Verifica a compressione [4.2.9] - CC 45 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-1811.47$   $T_z=7.07$   $M_x=3.60$   
 $N,Ed=-1811.47$   $N_c,Rd=-20053.30$   $N,Ed/N_c,Rd=0.09$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X1=0.00$   
Sollecitazioni:  $N=-1350.67$   $T_z=7.07$   $M_x=3.64$   
 $V,Ed=7.07$   $V_c,Rd,Red=5724.06$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.75$  - Classe 3  
Sollecitazioni:  $N=-573.26$   $M_y=-1.95$   $M_x=2.12$   
Tensioni:  $\sigma_N=-63.98$   $\sigma_M=-12.41$   $\tau=8.47$   $\sigma_{max}=-76.39$   
Tensioni:  $\sigma_N=-63.98$   $\sigma_M=12.41$   $\tau=8.47$   $\tau_{max}=8.47$   
Tensioni:  $\sigma_N=-63.98$   $\sigma_M=-12.41$   $\tau=8.47$   $\sigma_{ID,max}=77.79$

Asta n. 4117 (2309 -2704) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2477.90$   $M_y,Ed=-345.60$   $M_z,Ed=297.30$   
Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=8.88$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.43$   $N_{cr,y}=92050700.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.92$   $N_{cr,z}=63851300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.11+0.14=0.28$   
Verifica ZZ:  $0.03+0.09+0.14=0.25$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.09$  - Classe 3  
Sollecitazioni:  $N=738.70$   $T_z=7346.31$   $M_y=-439.80$   $T_y=-784.28$   $M_z=289.42$   $M_x=-26.10$   
Tensioni:  $\sigma_N=28.15$   $\sigma_M=1103.37$   $\tau=24.63$   $\sigma_{max}=1131.52$   
Tensioni:  $\sigma_N=28.15$   $\sigma_M=-380.87$   $\tau=595.13$   $\tau_{max}=595.13$   
Tensioni:  $\sigma_N=28.15$   $\sigma_M=-1003.01$   $\tau=410.22$   $\sigma_{ID,max}=1206.31$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X1=0.05$   
Sollecitazioni:  $N=808.12$   $T_z=1432.17$   $T_y=-341.74$   $M_z=156.92$   $M_x=-10.17$   
 $V,Ed=-341.74$   $V_c,Rd,Red=22653.30$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=1432.17$   $V_c,Rd,Red=28316.70$   $V,Ed/V_c,Rd,Red=0.05$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.09$  - Classe 3  
Sollecitazioni:  $N=-814.62$   $T_z=5300.77$   $M_y=-354.80$   $T_y=-371.55$   $M_z=186.15$   $M_x=-16.78$   
Tensioni:  $\sigma_N=-31.04$   $\sigma_M=-812.26$   $\tau=15.83$   $\sigma_{max}=-843.30$   
Tensioni:  $\sigma_N=-31.04$   $\sigma_M=-244.97$   $\tau=427.44$   $\tau_{max}=427.44$   
Tensioni:  $\sigma_N=-31.04$   $\sigma_M=-731.29$   $\tau=294.06$   $\sigma_{ID,max}=916.82$

Asta n. 4117 (-2704 -2944) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2476.77$   $M_y,Ed=-1041.59$   $M_z,Ed=263.07$   
Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.92$   $N_{cr,y}=63723600.00$   $\lambda'_y=0.04$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.51$   $N_{cr,z}=44202100.00$   $\lambda'_z=0.05$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.34+0.12=0.49$   
Verifica ZZ:  $0.03+0.27+0.12=0.42$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.11$  - Classe 3  
Sollecitazioni:  $N=741.13$   $T_z=7345.02$   $M_y=-1224.22$   $T_y=-784.28$   $M_z=205.67$   $M_x=-26.10$   
Tensioni:  $\sigma_N=28.24$   $\sigma_M=2084.41$   $\tau=24.62$   $\sigma_{max}=2112.66$   
Tensioni:  $\sigma_N=28.24$   $\sigma_M=-270.65$   $\tau=595.02$   $\tau_{max}=595.02$   
Tensioni:  $\sigma_N=28.24$   $\sigma_M=2084.41$   $\tau=24.62$   $\sigma_{ID,max}=2113.09$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.11$  - Classe 3  
Sollecitazioni:  $N=1236.73$   $T_z=5300.00$   $M_y=-919.96$   $T_y=-371.58$   $M_z=146.75$   $M_x=-16.78$   
Tensioni:  $\sigma_N=47.13$   $\sigma_M=1553.54$   $\tau=15.83$   $\sigma_{max}=1600.67$   
Tensioni:  $\sigma_N=47.13$   $\sigma_M=-193.12$   $\tau=427.38$   $\tau_{max}=427.38$   
Tensioni:  $\sigma_N=47.13$   $\sigma_M=1553.54$   $\tau=15.83$   $\sigma_{ID,max}=1600.91$



Asta n. 4117 (-2944 -3125) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5145.29 My,Ed=-985.00 Mz,Ed=196.40  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$  Ncr,y=254897000.00  $\lambda_y^*=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176810000.00  $\lambda_z^*=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.06+0.32+0.09=0.47  
 Verifica ZZ: 0.06+0.25+0.09=0.40

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5145.29 Tz=-2640.71 My=-985.00 Ty=-615.45 Mz=196.40 Mx=-38.56  
 Tensioni:  $\sigma_N=-196.09$   $\sigma_M=-1727.96$   $\tau=36.38$   $\sigma_{max}=-1924.05$   
 Tensioni:  $\sigma_N=-196.09$   $\sigma_M=258.45$   $\tau=241.54$   $\tau_{max}=241.54$   
 Tensioni:  $\sigma_N=-196.09$   $\sigma_M=-1727.96$   $\tau=36.38$   $\sigma_{ID,max}=1925.08$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4723.78 Tz=-1990.47 My=-742.40 Ty=-303.60 Mz=144.21 Mx=-21.12  
 Tensioni:  $\sigma_N=-180.02$   $\sigma_M=-1296.10$   $\tau=19.93$   $\sigma_{max}=-1476.13$   
 Tensioni:  $\sigma_N=-180.02$   $\sigma_M=189.78$   $\tau=174.52$   $\tau_{max}=174.52$   
 Tensioni:  $\sigma_N=-180.02$   $\sigma_M=-1296.10$   $\tau=19.93$   $\sigma_{ID,max}=1476.53$

Asta n. 4117 (-3125 -3351) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-9934.51 My,Ed=-707.18 Mz,Ed=159.20  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$  Ncr,y=254892000.00  $\lambda_y^*=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176807000.00  $\lambda_z^*=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.23+0.07=0.41  
 Verifica ZZ: 0.11+0.18+0.07=0.37

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6015.91 Tz=-3269.30 My=-834.48 Ty=-605.01 Mz=158.16 Mx=-38.96  
 Tensioni:  $\sigma_N=-229.26$   $\sigma_M=-1450.39$   $\tau=36.76$   $\sigma_{max}=-1679.66$   
 Tensioni:  $\sigma_N=-229.26$   $\sigma_M=208.14$   $\tau=290.71$   $\tau_{max}=290.71$   
 Tensioni:  $\sigma_N=-229.26$   $\sigma_M=-1450.39$   $\tau=36.76$   $\sigma_{ID,max}=1680.86$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5343.46 Tz=-2420.76 My=-629.35 Ty=-303.23 Mz=125.45 Mx=-21.27  
 Tensioni:  $\sigma_N=-203.64$   $\sigma_M=-1104.00$   $\tau=20.07$   $\sigma_{max}=-1307.64$   
 Tensioni:  $\sigma_N=-203.64$   $\sigma_M=165.09$   $\tau=208.07$   $\tau_{max}=208.07$   
 Tensioni:  $\sigma_N=-203.64$   $\sigma_M=-1104.00$   $\tau=20.07$   $\sigma_{ID,max}=1308.10$

Asta n. 4117 (-3351 -3679) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-10846.30 My,Ed=-576.33 Mz,Ed=125.87  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$  Ncr,y=254897000.00  $\lambda_y^*=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176810000.00  $\lambda_z^*=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.12+0.19+0.06=0.37  
 Verifica ZZ: 0.12+0.15+0.06=0.33

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-10846.30 Tz=-2198.08 My=-576.33 Ty=-527.81 Mz=125.87 Mx=-46.80  
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=-1029.07$   $\tau=44.15$   $\sigma_{max}=-1442.42$   
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=165.64$   $\tau=214.92$   $\tau_{max}=214.92$   
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=-1029.07$   $\tau=44.15$   $\sigma_{ID,max}=1444.45$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5645.81 Tz=-2096.98 My=-497.77 Ty=-297.55 Mz=106.68 Mx=-21.38

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Tensioni:  $\sigma_N=-215.16$   $\sigma_M=-885.46$   $\tau=20.17$   $\sigma_{max}=-1100.62$   
 Tensioni:  $\sigma_N=-215.16$   $\sigma_M=140.39$   $\tau=183.03$   $\tau_{max}=183.03$   
 Tensioni:  $\sigma_N=-215.16$   $\sigma_M=-885.46$   $\tau=20.17$   $\sigma_{ID,max}=1101.17$

Asta n. 4117 (-3679 -4185) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-11180.00 My,Ed=-455.58 Mz,Ed=93.45  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$  Ncr,y=254897000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176810000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.13+0.15+0.04=0.32  
 Verifica ZZ: 0.13+0.12+0.04=0.29

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-11180.00 Tz=-1614.40 My=-455.58 Ty=-548.46 Mz=93.45 Mx=-46.78  
 Tensioni:  $\sigma_N=-426.07$   $\sigma_M=-803.52$   $\tau=44.14$   $\sigma_{max}=-1229.59$   
 Tensioni:  $\sigma_N=-426.07$   $\sigma_M=122.98$   $\tau=169.62$   $\tau_{max}=169.62$   
 Tensioni:  $\sigma_N=-426.07$   $\sigma_M=-803.52$   $\tau=44.14$   $\sigma_{ID,max}=1231.96$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5661.11 Tz=-1474.44 My=-384.67 Ty=-313.32 Mz=88.61 Mx=-21.30  
 Tensioni:  $\sigma_N=-215.74$   $\sigma_M=-694.42$   $\tau=20.10$   $\sigma_{max}=-910.17$   
 Tensioni:  $\sigma_N=-215.74$   $\sigma_M=116.61$   $\tau=134.63$   $\tau_{max}=134.63$   
 Tensioni:  $\sigma_N=-215.74$   $\sigma_M=-694.42$   $\tau=20.10$   $\sigma_{ID,max}=910.83$

Asta n. 4117 (-4185 -5556) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12146.20 My,Ed=-308.05 Mz,Ed=40.09  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$  Ncr,y=68272600.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916200.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.19+0.11+0.02=0.33  
 Verifica ZZ: 0.19+0.09+0.02=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-12146.20 Tz=-1161.67 My=-308.05 Ty=-273.69 Mz=40.09 Mx=-36.79  
 Tensioni:  $\sigma_N=-639.28$   $\sigma_M=-573.27$   $\tau=42.65$   $\sigma_{max}=-1212.55$   
 Tensioni:  $\sigma_N=-639.28$   $\sigma_M=71.01$   $\tau=160.59$   $\tau_{max}=160.59$   
 Tensioni:  $\sigma_N=-639.28$   $\sigma_M=-573.27$   $\tau=42.65$   $\sigma_{ID,max}=1214.80$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.11  
 Sollecitazioni: N=-9304.48 Tz=-1394.44 My=-198.73 Ty=-423.47 Mx=-40.28  
 V,Ed=423.47 Vc,Rd,Red=14480.70 V,Ed/Vc,Rd,Red=0.03

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-1394.44 Vc,Rd,Red=21721.00 V,Ed/Vc,Rd,Red=0.06

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4015.62 Tz=-1105.60 My=-279.96 Ty=-248.44 Mz=63.24 Mx=-20.02  
 Tensioni:  $\sigma_N=-211.35$   $\sigma_M=-575.28$   $\tau=23.22$   $\sigma_{max}=-786.63$   
 Tensioni:  $\sigma_N=-211.35$   $\sigma_M=112.03$   $\tau=135.47$   $\tau_{max}=135.47$   
 Tensioni:  $\sigma_N=-211.35$   $\sigma_M=-575.28$   $\tau=23.22$   $\sigma_{ID,max}=787.66$

Asta n. 4117 (-5556 -7068) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12454.90 My,Ed=-182.61 Mz,Ed=-29.17  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$  Ncr,y=68272600.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916200.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.19+0.07+0.02=0.28

Verifica ZZ:  $0.19+0.05+0.02=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-12454.90$   $T_z=-816.97$   $M_y=-182.61$   $T_y=-289.08$   $M_z=1.70$   $M_x=-37.27$   
Tensioni:  $\sigma_N=-655.52$   $\sigma_M=-295.16$   $\tau=43.22$   $\sigma_{max}=-950.68$   
Tensioni:  $\sigma_N=-655.52$   $\sigma_M=3.01$   $\tau=126.18$   $\tau_{max}=126.18$   
Tensioni:  $\sigma_N=-655.52$   $\sigma_M=-295.16$   $\tau=43.22$   $\sigma_{ID,max}=953.63$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $X1=0.00$   
Sollecitazioni:  $N=-633.84$   $T_z=-242.15$   $M_y=-45.93$   $T_y=-300.47$   $M_x=-17.93$   
 $V,Ed=-300.47$   $V_c,Rd,Red=14677.60$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-242.15$   $V_c,Rd,Red=22016.40$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-3597.07$   $T_z=-589.78$   $M_y=-159.45$   $T_y=-254.69$   $M_z=-45.88$   $M_x=-20.28$   
Tensioni:  $\sigma_N=-189.32$   $\sigma_M=-347.61$   $\tau=23.51$   $\sigma_{max}=-536.93$   
Tensioni:  $\sigma_N=-189.32$   $\sigma_M=-81.28$   $\tau=83.41$   $\tau_{max}=83.41$   
Tensioni:  $\sigma_N=-189.32$   $\sigma_M=-347.61$   $\tau=23.51$   $\sigma_{ID,max}=538.47$

Asta n. 4117 (-7068 -7816) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-11405.70$   $M_y,Ed=-97.50$   $M_z,Ed=-52.28$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$  Ncr, $y=273093000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr, $z=143666000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.18+0.04+0.03=0.24$   
Verifica ZZ:  $0.18+0.03+0.03=0.24$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-11405.70$   $T_z=-898.87$   $M_y=-97.50$   $T_y=-292.13$   $M_z=-36.69$   $M_x=-36.20$   
Tensioni:  $\sigma_N=-600.30$   $\sigma_M=-230.03$   $\tau=41.97$   $\sigma_{max}=-830.33$   
Tensioni:  $\sigma_N=-600.30$   $\sigma_M=-64.99$   $\tau=133.24$   $\tau_{max}=133.24$   
Tensioni:  $\sigma_N=-600.30$   $\sigma_M=-217.05$   $\tau=97.01$   $\sigma_{ID,max}=834.45$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-3048.28$   $T_z=-576.04$   $M_y=-98.41$   $T_y=-240.81$   $M_z=-60.73$   $M_x=-21.08$   
Tensioni:  $\sigma_N=-160.44$   $\sigma_M=-280.16$   $\tau=24.44$   $\sigma_{max}=-440.60$   
Tensioni:  $\sigma_N=-160.44$   $\sigma_M=-107.58$   $\tau=82.94$   $\tau_{max}=82.94$   
Tensioni:  $\sigma_N=-160.44$   $\sigma_M=-280.16$   $\tau=24.44$   $\sigma_{ID,max}=442.63$

Asta n. 4117 (-7816 -8584) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-10939.60$   $M_y,Ed=-57.00$   $M_z,Ed=-73.99$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$  Ncr, $y=273093000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr, $z=143666000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.04=0.23$   
Verifica ZZ:  $0.17+0.02+0.04=0.23$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-10939.60$   $T_z=-727.94$   $M_y=-57.00$   $T_y=-306.75$   $M_z=-57.61$   $M_x=-35.50$   
Tensioni:  $\sigma_N=-575.77$   $\sigma_M=-207.70$   $\tau=41.16$   $\sigma_{max}=-783.47$   
Tensioni:  $\sigma_N=-575.77$   $\sigma_M=-102.06$   $\tau=115.09$   $\tau_{max}=115.09$   
Tensioni:  $\sigma_N=-575.77$   $\sigma_M=-200.11$   $\tau=85.74$   $\sigma_{ID,max}=789.97$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-2894.97$   $T_z=-616.55$   $M_y=-67.68$   $T_y=-247.41$   $M_z=-68.14$   $M_x=-21.30$   
Tensioni:  $\sigma_N=-152.37$   $\sigma_M=-246.08$   $\tau=24.69$   $\sigma_{max}=-398.45$   
Tensioni:  $\sigma_N=-152.37$   $\sigma_M=-120.71$   $\tau=87.31$   $\tau_{max}=87.31$   
Tensioni:  $\sigma_N=-152.37$   $\sigma_M=-237.07$   $\tau=62.45$   $\sigma_{ID,max}=404.18$

Asta n. 4117 (-8584 3502) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-10527.00 My,Ed=100.29 Mz,Ed=-90.57  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$  Ncr,y=68272600.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916200.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.04+0.05=0.25  
 Verifica ZZ: 0.16+0.03+0.05=0.25
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-10525.20 Tz=-1137.13 My=100.29 Ty=-91.58 Mz=-90.57 Mx=-11.38  
 Tensioni:  $\sigma_N=-553.96$   $\sigma_M=-343.57$   $\tau=13.19$   $\sigma_{max}=-897.52$   
 Tensioni:  $\sigma_N=-553.96$   $\sigma_M=-160.43$   $\tau=128.62$   $\tau_{max}=128.62$   
 Tensioni:  $\sigma_N=-553.96$   $\sigma_M=-343.57$   $\tau=13.19$   $\sigma_{ID,max}=897.81$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.06  
 Sollecitazioni: N=-2163.30 Tz=-773.91 Ty=-157.87 Mz=-136.79 Mx=-8.32  
 V,Ed=-157.87 Vc,Rd,Red=14762.20 V,Ed/Vc,Rd,Red=0.01
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-773.91 Vc,Rd,Red=22143.40 V,Ed/Vc,Rd,Red=0.03
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2262.31 Tz=-885.53 My=55.32 Ty=-182.87 Mz=-81.79 Mx=-14.11  
 Tensioni:  $\sigma_N=-119.07$   $\sigma_M=-253.96$   $\tau=16.36$   $\sigma_{max}=-373.03$   
 Tensioni:  $\sigma_N=-119.07$   $\sigma_M=-144.88$   $\tau=106.26$   $\tau_{max}=106.26$   
 Tensioni:  $\sigma_N=-119.07$   $\sigma_M=-246.59$   $\tau=70.59$   $\sigma_{ID,max}=385.56$

Asta n. 4136 (2313 -2727) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2354.43 My,Ed=-456.58 Mz,Ed=-161.73  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=10.05  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.75$  Ncr,y=71904800.00  $\lambda'_y=0.04$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.30$  Ncr,z=49877100.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.03+0.15+0.07=0.25  
 Verifica ZZ: 0.03+0.12+0.07=0.22
  - Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.00$  (L/3726)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.00$  (L/3455)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=542.90 Tz=7465.54 My=-542.10 Ty=624.47 Mz=-182.98 Mx=137.98  
 Tensioni:  $\sigma_N=20.69$   $\sigma_M=1074.19$   $\tau=130.19$   $\sigma_{max}=1094.88$   
 Tensioni:  $\sigma_N=20.69$   $\sigma_M=-240.80$   $\tau=709.91$   $\tau_{max}=709.91$   
 Tensioni:  $\sigma_N=20.69$   $\sigma_M=-950.48$   $\tau=522.04$   $\sigma_{ID,max}=1296.96$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3189.19 Tz=4790.58 My=-374.32 Ty=246.04 Mz=-75.58 Mx=80.58  
 Tensioni:  $\sigma_N=-121.54$   $\sigma_M=-658.22$   $\tau=76.03$   $\sigma_{max}=-779.76$   
 Tensioni:  $\sigma_N=-121.54$   $\sigma_M=-99.46$   $\tau=448.01$   $\tau_{max}=448.01$   
 Tensioni:  $\sigma_N=-121.54$   $\sigma_M=-572.80$   $\tau=327.47$   $\sigma_{ID,max}=896.56$

Asta n. 4136 (-2727 -2946) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2629.67 My,Ed=-1096.95 Mz,Ed=-149.01  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=9.51  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.60$  Ncr,y=80265900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.13$  Ncr,z=55676800.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.03+0.35+0.07=0.45$   
 Verifica ZZ:  $0.03+0.28+0.07=0.38$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=240.81$   $T_z=7480.98$   $M_y=-1253.72$   $T_y=616.77$   $M_z=-130.32$   $M_x=130.41$   
 Tensioni:  $\sigma_N=9.18$   $\sigma_M=2002.55$   $\tau=123.05$   $\sigma_{max}=2011.73$   
 Tensioni:  $\sigma_N=9.18$   $\sigma_M=-171.50$   $\tau=703.97$   $\tau_{max}=703.97$   
 Tensioni:  $\sigma_N=9.18$   $\sigma_M=2002.55$   $\tau=123.05$   $\sigma_{ID,max}=2022.99$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=3641.12$   $T_z=4666.38$   $M_y=-817.23$   $T_y=241.48$   $M_z=-55.39$   $M_x=77.88$   
 Tensioni:  $\sigma_N=138.76$   $\sigma_M=1256.74$   $\tau=73.48$   $\sigma_{max}=1395.50$   
 Tensioni:  $\sigma_N=138.76$   $\sigma_M=-72.89$   $\tau=435.82$   $\tau_{max}=435.82$   
 Tensioni:  $\sigma_N=138.76$   $\sigma_M=1256.74$   $\tau=73.48$   $\sigma_{ID,max}=1401.29$

Asta n. 4136 (-2946 -3127) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5394.91$   $M_y,Ed=-1006.82$   $M_z,Ed=-129.40$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $N_{cr,y}=254896000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $N_{cr,z}=176809000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.33+0.06=0.45$   
 Verifica ZZ:  $0.06+0.26+0.06=0.38$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5394.91$   $T_z=-2762.56$   $M_y=-1006.82$   $T_y=506.47$   $M_z=-129.40$   $M_x=121.12$   
 Tensioni:  $\sigma_N=-205.60$   $\sigma_M=-1648.89$   $\tau=114.28$   $\sigma_{max}=-1854.49$   
 Tensioni:  $\sigma_N=-205.60$   $\sigma_M=170.29$   $\tau=328.84$   $\tau_{max}=328.84$   
 Tensioni:  $\sigma_N=-205.60$   $\sigma_M=-1648.89$   $\tau=114.28$   $\sigma_{ID,max}=1865.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6399.28$   $T_z=-1697.01$   $M_y=-663.36$   $T_y=204.94$   $M_z=-56.75$   $M_x=61.65$   
 Tensioni:  $\sigma_N=-243.88$   $\sigma_M=-1039.50$   $\tau=58.17$   $\sigma_{max}=-1283.37$   
 Tensioni:  $\sigma_N=-243.88$   $\sigma_M=74.68$   $\tau=189.95$   $\tau_{max}=189.95$   
 Tensioni:  $\sigma_N=-243.88$   $\sigma_M=-1039.50$   $\tau=58.17$   $\sigma_{ID,max}=1287.32$

Asta n. 4136 (-3127 -3353) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-10081.80$   $M_y,Ed=-740.89$   $M_z,Ed=-90.46$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.46$   $N_{cr,y}=254892000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$   $N_{cr,z}=176807000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.11+0.24+0.04=0.39$   
 Verifica ZZ:  $0.11+0.19+0.04=0.35$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6250.53$   $T_z=-3441.80$   $M_y=-849.79$   $T_y=508.96$   $M_z=-98.07$   $M_x=121.04$   
 Tensioni:  $\sigma_N=-238.21$   $\sigma_M=-1373.37$   $\tau=114.20$   $\sigma_{max}=-1611.58$   
 Tensioni:  $\sigma_N=-238.21$   $\sigma_M=129.05$   $\tau=381.50$   $\tau_{max}=381.50$   
 Tensioni:  $\sigma_N=-238.21$   $\sigma_M=-1373.37$   $\tau=114.20$   $\sigma_{ID,max}=1623.67$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6903.93$   $T_z=-2097.82$   $M_y=-567.45$   $T_y=209.69$   $M_z=-44.08$   $M_x=61.48$   
 Tensioni:  $\sigma_N=-263.11$   $\sigma_M=-881.86$   $\tau=58.01$   $\sigma_{max}=-1144.97$   
 Tensioni:  $\sigma_N=-263.11$   $\sigma_M=58.01$   $\tau=220.92$   $\tau_{max}=220.92$   
 Tensioni:  $\sigma_N=-263.11$   $\sigma_M=-881.86$   $\tau=58.01$   $\sigma_{ID,max}=1149.37$

Asta n. 4136 (-3353 -3691) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-11006.40$   $M_y,Ed=-597.42$   $M_z,Ed=-64.21$   
 Resistenze:  $N_c,Rd=88716.20$   $M_y,c,Rd=2370.44$   $M_z,c,Rd=2055.33$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

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$\lambda_y=1.46$  Ncr,y=254898000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176811000.00  $\lambda'_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.12+0.19+0.03=0.35  
 Verifica ZZ: 0.12+0.15+0.03=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-11006.40 Tz=-2310.54 My=-597.42 Ty=426.45 Mz=-64.21 Mx=140.09  
 Tensioni:  $\sigma_N=-419.45$   $\sigma_M=-957.72$   $\tau=132.18$   $\sigma_{max}=-1377.17$   
 Tensioni:  $\sigma_N=-419.45$   $\sigma_M=84.50$   $\tau=311.63$   $\tau_{max}=311.63$   
 Tensioni:  $\sigma_N=-419.45$   $\sigma_M=-957.72$   $\tau=132.18$   $\sigma_{ID,max}=1396.08$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7172.83 Tz=-1707.39 My=-454.40 Ty=209.93 Mz=-31.17 Mx=61.41  
 Tensioni:  $\sigma_N=-273.36$   $\sigma_M=-699.38$   $\tau=57.94$   $\sigma_{max}=-972.74$   
 Tensioni:  $\sigma_N=-273.36$   $\sigma_M=41.02$   $\tau=190.53$   $\tau_{max}=190.53$   
 Tensioni:  $\sigma_N=-273.36$   $\sigma_M=-699.38$   $\tau=57.94$   $\sigma_{ID,max}=977.90$

Asta n. 4136 (-3691 -4197) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-11465.50 My,Ed=-472.40 Mz,Ed=-37.73  
 Resistenze: Nc,Rd=88716.20 My,c,Rd=2370.44 Mz,c,Rd=2055.33 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=1.46$  Ncr,y=254898000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.75$  Ncr,z=176811000.00  $\lambda'_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.13+0.15+0.02=0.30  
 Verifica ZZ: 0.13+0.12+0.02=0.27

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-11465.50 Tz=-1621.06 My=-472.40 Ty=419.94 Mz=-37.73 Mx=139.75  
 Tensioni:  $\sigma_N=-436.95$   $\sigma_M=-735.85$   $\tau=131.86$   $\sigma_{max}=-1172.79$   
 Tensioni:  $\sigma_N=-436.95$   $\sigma_M=49.65$   $\tau=257.78$   $\tau_{max}=257.78$   
 Tensioni:  $\sigma_N=-436.95$   $\sigma_M=-735.85$   $\tau=131.86$   $\sigma_{ID,max}=1194.82$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU Xl=0.05  
 Sollecitazioni: N=-1628.39 Tz=-1148.73 My=-205.82 Ty=237.57 Mx=37.23  
 V,Ed=237.57 Vc,Rd,Red=22355.60 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-1148.73 Vc,Rd,Red=27944.50 V,Ed/Vc,Rd,Red=0.04

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7213.96 Tz=-1112.40 My=-363.40 Ty=204.85 Mz=-18.19 Mx=61.32  
 Tensioni:  $\sigma_N=-274.92$   $\sigma_M=-548.24$   $\tau=57.86$   $\sigma_{max}=-823.16$   
 Tensioni:  $\sigma_N=-274.92$   $\sigma_M=23.94$   $\tau=144.25$   $\tau_{max}=144.25$   
 Tensioni:  $\sigma_N=-274.92$   $\sigma_M=-548.24$   $\tau=57.86$   $\sigma_{ID,max}=829.24$

Asta n. 4136 (-4197 -5565) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-12147.80 My,Ed=-321.16 Mz,Ed=18.30  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=10.68  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.40$  Ncr,y=68272800.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$  Ncr,z=35916300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.12+0.01=0.32  
 Verifica ZZ: 0.19+0.10+0.01=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.01 - Classe 3  
 Sollecitazioni: N=-12147.60 Tz=-1308.41 My=-308.46 Ty=174.14 Mz=1.40 Mx=107.84  
 Tensioni:  $\sigma_N=-639.35$   $\sigma_M=-495.60$   $\tau=125.03$   $\sigma_{max}=-1134.95$   
 Tensioni:  $\sigma_N=-639.35$   $\sigma_M=-2.48$   $\tau=257.85$   $\tau_{max}=257.85$   
 Tensioni:  $\sigma_N=-639.35$   $\sigma_M=-495.60$   $\tau=125.03$   $\sigma_{ID,max}=1155.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
 Sollecitazioni: N=-12147.80 Tz=-1308.33 My=-321.16 Ty=174.14 Mx=107.84

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V,Ed=174.14 Vc,Rd,Red=13885.30 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-1308.33 Vc,Rd,Red=20828.00 V,Ed/Vc,Rd,Red=0.06
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5156.20 T<sub>z</sub>=-1008.39 M<sub>y</sub>=-277.31 T<sub>y</sub>=163.06 M<sub>z</sub>=5.07 M<sub>x</sub>=57.02  
Tensioni:  $\sigma_N$ =-271.38  $\sigma_M$ =-453.26  $\tau$ =66.11  $\sigma_{max}$ =-724.64  
Tensioni:  $\sigma_N$ =-271.38  $\sigma_M$ =-8.98  $\tau$ =168.48  $\tau_{max}$ =168.48  
Tensioni:  $\sigma_N$ =-271.38  $\sigma_M$ =-453.26  $\tau$ =66.11  $\sigma_{ID,max}$ =733.63

Asta n. 4136 (-5565 -6282) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-12660.70 My,Ed=-182.60 Mz,Ed=34.76  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =1.20 Ncr,y=273093000.00  $\lambda_y^*$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =1.66 Ncr,z=143666000.00  $\lambda_z^*$ =0.02 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.20+0.07+0.02=0.28  
Verifica ZZ: 0.20+0.05+0.02=0.27
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-12660.70 T<sub>z</sub>=-738.87 M<sub>y</sub>=-182.60 T<sub>y</sub>=240.12 M<sub>z</sub>=21.94 M<sub>x</sub>=107.22  
Tensioni:  $\sigma_N$ =-666.36  $\sigma_M$ =-336.13  $\tau$ =124.31  $\sigma_{max}$ =-1002.48  
Tensioni:  $\sigma_N$ =-666.36  $\sigma_M$ =-38.87  $\tau$ =199.33  $\tau_{max}$ =199.33  
Tensioni:  $\sigma_N$ =-666.36  $\sigma_M$ =-336.13  $\tau$ =124.31  $\sigma_{ID,max}$ =1025.34
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4936.14 T<sub>z</sub>=-568.67 M<sub>y</sub>=-168.76 T<sub>y</sub>=186.94 M<sub>z</sub>=22.51 M<sub>x</sub>=57.31  
Tensioni:  $\sigma_N$ =-259.80  $\sigma_M$ =-315.16  $\tau$ =66.45  $\sigma_{max}$ =-574.96  
Tensioni:  $\sigma_N$ =-259.80  $\sigma_M$ =-39.87  $\tau$ =124.18  $\tau_{max}$ =124.18  
Tensioni:  $\sigma_N$ =-259.80  $\sigma_M$ =-315.16  $\tau$ =66.45  $\sigma_{ID,max}$ =586.36

Asta n. 4136 (-6282 -7071) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-12298.30 My,Ed=-143.15 Mz,Ed=50.65  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =1.20 Ncr,y=273089000.00  $\lambda_y^*$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =1.66 Ncr,z=143664000.00  $\lambda_z^*$ =0.02 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.05+0.03=0.27  
Verifica ZZ: 0.19+0.04+0.03=0.26
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-12298.30 T<sub>z</sub>=-720.88 M<sub>y</sub>=-143.15 T<sub>y</sub>=249.06 M<sub>z</sub>=37.35 M<sub>x</sub>=106.68  
Tensioni:  $\sigma_N$ =-647.28  $\sigma_M$ =-304.30  $\tau$ =123.68  $\sigma_{max}$ =-951.57  
Tensioni:  $\sigma_N$ =-647.28  $\sigma_M$ =-66.16  $\tau$ =196.87  $\tau_{max}$ =196.87  
Tensioni:  $\sigma_N$ =-647.28  $\sigma_M$ =-285.24  $\tau$ =167.83  $\sigma_{ID,max}$ =976.77
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4504.72 T<sub>z</sub>=-467.19 M<sub>y</sub>=-137.32 T<sub>y</sub>=185.78 M<sub>z</sub>=34.28 M<sub>x</sub>=57.38  
Tensioni:  $\sigma_N$ =-237.09  $\sigma_M$ =-288.76  $\tau$ =66.53  $\sigma_{max}$ =-525.86  
Tensioni:  $\sigma_N$ =-237.09  $\sigma_M$ =-60.72  $\tau$ =113.97  $\tau_{max}$ =113.97  
Tensioni:  $\sigma_N$ =-237.09  $\sigma_M$ =-288.76  $\tau$ =66.53  $\sigma_{ID,max}$ =538.33

Asta n. 4136 (-7071 -7817) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-11473.50 My,Ed=-104.05 Mz,Ed=65.72  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =1.20 Ncr,y=273093000.00  $\lambda_y^*$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =1.66 Ncr,z=143666000.00  $\lambda_z^*$ =0.02 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.18+0.04+0.04=0.25

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Verifica ZZ:  $0.18+0.03+0.04=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-11473.50$   $T_z=-947.19$   $M_y=-104.05$   $T_y=221.11$   $M_z=53.91$   $M_x=106.59$   
Tensioni:  $\sigma_N=-603.87$   $\sigma_M=-275.36$   $\tau=123.58$   $\sigma_{max}=-879.23$   
Tensioni:  $\sigma_N=-603.87$   $\sigma_M=-95.50$   $\tau=219.74$   $\tau_{max}=219.74$   
Tensioni:  $\sigma_N=-603.87$   $\sigma_M=-261.51$   $\tau=181.58$   $\sigma_{ID,max}=920.76$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3913.52$   $T_z=-621.97$   $M_y=-112.96$   $T_y=174.83$   $M_z=46.58$   $M_x=57.38$   
Tensioni:  $\sigma_N=-205.97$   $\sigma_M=-274.76$   $\tau=66.53$   $\sigma_{max}=-480.74$   
Tensioni:  $\sigma_N=-205.97$   $\sigma_M=-82.51$   $\tau=129.68$   $\tau_{max}=129.68$   
Tensioni:  $\sigma_N=-205.97$   $\sigma_M=-259.72$   $\tau=104.62$   $\sigma_{ID,max}=499.71$

Asta n. 4136 (-7817 -8599) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-11064.00$   $M_y,Ed=-60.50$   $M_z,Ed=83.08$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr,y}=273089000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr,z}=143664000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.05=0.24$   
Verifica ZZ:  $0.17+0.02+0.05=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-11064.00$   $T_z=-737.50$   $M_y=-60.50$   $T_y=252.83$   $M_z=69.58$   $M_x=104.41$   
Tensioni:  $\sigma_N=-582.31$   $\sigma_M=-237.51$   $\tau=121.05$   $\sigma_{max}=-819.83$   
Tensioni:  $\sigma_N=-582.31$   $\sigma_M=-123.25$   $\tau=195.93$   $\tau_{max}=195.93$   
Tensioni:  $\sigma_N=-582.31$   $\sigma_M=-229.46$   $\tau=166.21$   $\sigma_{ID,max}=861.31$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3752.45$   $T_z=-745.80$   $M_y=-82.00$   $T_y=171.89$   $M_z=58.69$   $M_x=57.13$   
Tensioni:  $\sigma_N=-197.50$   $\sigma_M=-249.81$   $\tau=66.24$   $\sigma_{max}=-447.31$   
Tensioni:  $\sigma_N=-197.50$   $\sigma_M=-103.97$   $\tau=141.95$   $\tau_{max}=141.95$   
Tensioni:  $\sigma_N=-197.50$   $\sigma_M=-238.90$   $\tau=111.91$   $\sigma_{ID,max}=477.51$

Asta n. 4136 (-8599 3504) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-10628.70$   $M_y,Ed=99.94$   $M_z,Ed=89.85$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68267400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35913500.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.04+0.05=0.25$   
Verifica ZZ:  $0.17+0.03+0.05=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.11$  - Classe 3  
Sollecitazioni:  $N=-10626.70$   $T_z=-1125.92$   $M_y=99.94$   $T_y=28.66$   $M_z=89.85$   $M_x=76.72$   
Tensioni:  $\sigma_N=-559.30$   $\sigma_M=-341.56$   $\tau=88.95$   $\sigma_{max}=-900.86$   
Tensioni:  $\sigma_N=-559.30$   $\sigma_M=-159.17$   $\tau=203.24$   $\tau_{max}=203.24$   
Tensioni:  $\sigma_N=-559.30$   $\sigma_M=-328.25$   $\tau=157.90$   $\sigma_{ID,max}=928.73$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $Xl=0.06$   
Sollecitazioni:  $N=-2286.11$   $T_z=-813.45$   $T_y=88.18$   $M_z=137.89$   $M_x=51.54$   
 $V,Ed=88.18$   $V_c,Rd,Red=14381.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-813.45$   $V_c,Rd,Red=21572.20$   $V,Ed/V_c,Rd,Red=0.04$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.11$  - Classe 3  
Sollecitazioni:  $N=-2948.85$   $T_z=-1138.32$   $M_y=77.67$   $T_y=81.79$   $M_z=79.45$   $M_x=45.05$   
Tensioni:  $\sigma_N=-155.20$   $\sigma_M=-284.93$   $\tau=52.23$   $\sigma_{max}=-440.13$   
Tensioni:  $\sigma_N=-155.20$   $\sigma_M=-140.74$   $\tau=167.78$   $\tau_{max}=167.78$   
Tensioni:  $\sigma_N=-155.20$   $\sigma_M=-274.59$   $\tau=121.94$   $\sigma_{ID,max}=478.88$



Asta n. 4354 (-10277 -10338) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-22.36 My,Ed=-20.89 Mz,Ed=-3.14  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.02+0.00=0.02  
 Verifica ZZ: 0.00+0.01+0.00=0.02
  
  - Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-23.94 Tz=150.03 My=-2.53 Ty=34.76 Mz=-4.19 Mx=-45.17  
 Tensioni:  $\sigma_N=-1.74$   $\sigma_M=-20.78$   $\tau=86.91$   $\sigma_{max}=-22.52$   
 Tensioni:  $\sigma_N=-1.74$   $\sigma_M=12.84$   $\tau=106.36$   $\tau_{max}=106.36$   
 Tensioni:  $\sigma_N=-1.74$   $\sigma_M=14.82$   $\tau=106.36$   $\sigma_{ID,max}=184.69$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.09  
 Sollecitazioni: N=-22.30 Tz=174.51 My=-19.34 Ty=26.59 Mx=-19.14  
 V,Ed=26.59 Vc,Rd,Red=5757.98 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=174.51 Vc,Rd,Red=11516.00 V,Ed/Vc,Rd,Red=0.02
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4.70 Tz=77.14 My=-1.35 Ty=13.65 Mz=-1.86 Mx=-19.44  
 Tensioni:  $\sigma_N=-0.34$   $\sigma_M=-9.77$   $\tau=37.40$   $\sigma_{max}=-10.12$   
 Tensioni:  $\sigma_N=-0.34$   $\sigma_M=5.71$   $\tau=47.40$   $\tau_{max}=47.40$   
 Tensioni:  $\sigma_N=-0.34$   $\sigma_M=6.59$   $\tau=47.40$   $\sigma_{ID,max}=82.34$

Asta n. 4354 (-10338 -10416) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-99.10 My,Ed=-39.03 Mz,Ed=-1.04  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.03+0.00=0.04  
 Verifica ZZ: 0.00+0.03+0.00=0.03
  
  - Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-118.25 Tz=125.36 My=-19.72 Ty=17.23 Mz=-1.40 Mx=-47.41  
 Tensioni:  $\sigma_N=-8.59$   $\sigma_M=-51.31$   $\tau=91.22$   $\sigma_{max}=-59.90$   
 Tensioni:  $\sigma_N=-8.59$   $\sigma_M=4.29$   $\tau=107.47$   $\tau_{max}=107.47$   
 Tensioni:  $\sigma_N=-8.59$   $\sigma_M=4.29$   $\tau=107.47$   $\sigma_{ID,max}=186.19$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.01  
 Sollecitazioni: N=-99.09 Tz=152.66 My=-25.63 Ty=10.29 Mx=-21.25  
 V,Ed=10.29 Vc,Rd,Red=5739.32 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=152.66 Vc,Rd,Red=11478.60 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-51.98 Tz=65.44 My=-16.61 Ty=6.32 Mx=-20.06  
 Tensioni:  $\sigma_N=-3.78$   $\sigma_M=-39.05$   $\tau=38.60$   $\sigma_{max}=-42.83$   
 Tensioni:  $\sigma_N=-3.78$   $\sigma_M=0.00$   $\tau=47.08$   $\tau_{max}=47.08$   
 Tensioni:  $\sigma_N=-3.78$   $\sigma_M=-36.44$   $\tau=43.06$   $\sigma_{ID,max}=84.74$

Asta n. 4354 (-10416 -10486) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-173.47 My,Ed=-53.94 Mz,Ed=0.29  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.04+0.00=0.05  
 Verifica ZZ: 0.01+0.03+0.00=0.04

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-54.35 T<sub>z</sub>=112.19 M<sub>y</sub>=-50.64 M<sub>z</sub>=-1.24 M<sub>x</sub>=-28.80  
 Tensioni: σ<sub>N</sub>=-3.95 σ<sub>M</sub>=-123.43 τ=55.43 σ<sub>max</sub>=-127.38  
 Tensioni: σ<sub>N</sub>=-3.95 σ<sub>M</sub>=3.79 τ=69.97 τ<sub>max</sub>=69.97  
 Tensioni: σ<sub>N</sub>=-3.95 σ<sub>M</sub>=-123.43 τ=55.43 σ<sub>ID,max</sub>=159.51
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-173.47 T<sub>z</sub>=125.14 M<sub>y</sub>=-41.91 T<sub>y</sub>=2.56 M<sub>x</sub>=-24.74  
 V,Ed=2.56 Vc,Rd,Red=5708.57 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=125.14 Vc,Rd,Red=11417.10 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-96.81 T<sub>z</sub>=56.04 M<sub>y</sub>=-23.56 T<sub>y</sub>=2.64 M<sub>x</sub>=-21.07  
 Tensioni: σ<sub>N</sub>=-7.04 σ<sub>M</sub>=-55.40 τ=40.54 σ<sub>max</sub>=-62.43  
 Tensioni: σ<sub>N</sub>=-7.04 σ<sub>M</sub>=0.00 τ=47.80 τ<sub>max</sub>=47.80  
 Tensioni: σ<sub>N</sub>=-7.04 σ<sub>M</sub>=-51.70 τ=44.36 σ<sub>ID,max</sub>=96.71

Asta n. 4354 (-10486 -10581) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-241.57 My,Ed=-64.34 Mz,Ed=0.26  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55358100.00 λ<sub>y</sub><sup>\*</sup>=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387600.00 λ<sub>z</sub><sup>\*</sup>=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.05+0.00=0.06  
 Verifica ZZ: 0.01+0.04+0.00=0.05
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-116.70 T<sub>z</sub>=74.42 M<sub>y</sub>=-60.15 M<sub>z</sub>=-1.44 M<sub>x</sub>=-33.34  
 Tensioni: σ<sub>N</sub>=-8.48 σ<sub>M</sub>=-146.53 τ=64.16 σ<sub>max</sub>=-155.01  
 Tensioni: σ<sub>N</sub>=-8.48 σ<sub>M</sub>=4.43 τ=73.80 τ<sub>max</sub>=73.80  
 Tensioni: σ<sub>N</sub>=-8.48 σ<sub>M</sub>=-146.53 τ=64.16 σ<sub>ID,max</sub>=190.73
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-241.57 T<sub>z</sub>=86.60 M<sub>y</sub>=-56.08 M<sub>x</sub>=-29.57  
 V,Ed=86.60 Vc,Rd,Red=11331.80 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-142.74 T<sub>z</sub>=44.33 M<sub>y</sub>=-29.12 T<sub>y</sub>=1.73 M<sub>x</sub>=-22.47  
 Tensioni: σ<sub>N</sub>=-10.37 σ<sub>M</sub>=-68.47 τ=43.24 σ<sub>max</sub>=-78.85  
 Tensioni: σ<sub>N</sub>=-10.37 σ<sub>M</sub>=0.00 τ=48.99 τ<sub>max</sub>=48.99  
 Tensioni: σ<sub>N</sub>=-10.37 σ<sub>M</sub>=-63.91 τ=46.27 σ<sub>ID,max</sub>=109.27

Asta n. 4354 (-10581 -10681) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-307.04 My,Ed=-69.74 Mz,Ed=0.28  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55358000.00 λ<sub>y</sub><sup>\*</sup>=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387600.00 λ<sub>z</sub><sup>\*</sup>=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.06+0.00=0.07  
 Verifica ZZ: 0.01+0.04+0.00=0.06
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-203.80 T<sub>z</sub>=34.34 M<sub>y</sub>=-64.84 T<sub>y</sub>=3.41 M<sub>z</sub>=-1.46 M<sub>x</sub>=-38.50  
 Tensioni: σ<sub>N</sub>=-14.81 σ<sub>M</sub>=-157.62 τ=74.09 σ<sub>max</sub>=-172.43  
 Tensioni: σ<sub>N</sub>=-14.81 σ<sub>M</sub>=4.48 τ=78.54 τ<sub>max</sub>=78.54  
 Tensioni: σ<sub>N</sub>=-14.81 σ<sub>M</sub>=-156.93 τ=74.76 σ<sub>ID,max</sub>=215.09
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00

Sollecitazioni:  $N=-307.04$   $T_z=44.99$   $M_y=-65.54$   $M_x=-35.09$   
 $V,Ed=44.99$   $V_c,Rd,Red=11234.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-191.28$   $T_z=31.90$   $M_y=-33.15$   $T_y=1.95$   $M_x=-24.11$   
 Tensioni:  $\sigma_N=-13.90$   $\sigma_M=-77.94$   $\tau=46.40$   $\sigma_{max}=-91.84$   
 Tensioni:  $\sigma_N=-13.90$   $\sigma_M=0.00$   $\tau=50.53$   $\tau_{max}=50.53$   
 Tensioni:  $\sigma_N=-13.90$   $\sigma_M=-77.94$   $\tau=46.86$   $\sigma_{ID,max}=122.57$

Asta n. 4354 (-10681 -10772) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-370.53$   $M_y,Ed=-69.99$   $M_z,Ed=0.26$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358100.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.06+0.00=0.07$   
 Verifica ZZ:  $0.01+0.04+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-314.41$   $T_z=-1.18$   $M_y=-64.94$   $T_y=5.32$   $M_z=-1.90$   $M_x=-43.77$   
 Tensioni:  $\sigma_N=-22.85$   $\sigma_M=-159.39$   $\tau=84.23$   $\sigma_{max}=-182.24$   
 Tensioni:  $\sigma_N=-22.85$   $\sigma_M=-152.68$   $\tau=85.49$   $\tau_{max}=85.49$   
 Tensioni:  $\sigma_N=-22.85$   $\sigma_M=-158.49$   $\tau=85.28$   $\sigma_{ID,max}=233.89$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-459.68$   $T_z=-28.74$   $M_y=-49.51$   $M_x=-67.35$   
 $V,Ed=-28.74$   $V_c,Rd,Red=10665.00$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-241.84$   $T_z=-24.27$   $M_y=-35.63$   $T_y=2.07$   $M_x=-25.82$   
 Tensioni:  $\sigma_N=-17.58$   $\sigma_M=-83.77$   $\tau=49.68$   $\sigma_{max}=-101.34$   
 Tensioni:  $\sigma_N=-17.58$   $\sigma_M=0.00$   $\tau=52.83$   $\tau_{max}=52.83$   
 Tensioni:  $\sigma_N=-17.58$   $\sigma_M=-83.77$   $\tau=50.17$   $\sigma_{ID,max}=133.50$

Asta n. 4354 (-10772 -10837) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-429.18$   $M_y,Ed=-69.22$   $M_z,Ed=0.23$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.06+0.00=0.07$   
 Verifica ZZ:  $0.01+0.04+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-441.81$   $T_z=-40.11$   $M_y=-63.69$   $T_y=7.15$   $M_z=-1.89$   $M_x=-48.54$   
 Tensioni:  $\sigma_N=-32.11$   $\sigma_M=-156.43$   $\tau=93.40$   $\sigma_{max}=-188.54$   
 Tensioni:  $\sigma_N=-32.11$   $\sigma_M=-5.79$   $\tau=98.60$   $\tau_{max}=98.60$   
 Tensioni:  $\sigma_N=-32.11$   $\sigma_M=-155.54$   $\tau=94.81$   $\sigma_{ID,max}=249.36$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-535.16$   $T_z=-69.29$   $M_y=-41.51$   $M_x=-72.58$   
 $V,Ed=-69.29$   $V_c,Rd,Red=10572.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-292.18$   $T_z=-38.24$   $M_y=-36.64$   $T_y=2.03$   $M_x=-27.41$   
 Tensioni:  $\sigma_N=-21.23$   $\sigma_M=-86.16$   $\tau=52.74$   $\sigma_{max}=-107.39$   
 Tensioni:  $\sigma_N=-21.23$   $\sigma_M=0.00$   $\tau=57.70$   $\tau_{max}=57.70$   
 Tensioni:  $\sigma_N=-21.23$   $\sigma_M=-86.16$   $\tau=53.23$   $\sigma_{ID,max}=141.54$

Asta n. 4354 (-10837 -10912) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-575.52$   $M_y,Ed=-57.81$   $M_z,Ed=-1.78$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.02+0.05+0.00=0.07

Verifica ZZ: 0.02+0.04+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-575.52 Tz=-71.34 My=-57.81 Ty=8.51 Mz=-1.78 Mx=-52.17  
 Tensioni:  $\sigma_N=-41.83$   $\sigma_M=-142.21$   $\tau=100.38$   $\sigma_{max}=-184.04$   
 Tensioni:  $\sigma_N=-41.83$   $\sigma_M=-5.46$   $\tau=109.63$   $\tau_{max}=109.63$   
 Tensioni:  $\sigma_N=-41.83$   $\sigma_M=-141.37$   $\tau=102.07$   $\sigma_{ID,max}=254.59$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-598.78 Tz=-100.88 My=-29.56 Ty=-1.39 Mz=-76.58  
 V,Ed=-1.39 Vc,Rd,Red=5251.05 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-100.88 Vc,Rd,Red=10502.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-338.76 Tz=-46.07 My=-36.60 Ty=1.65 Mz=-28.62  
 Tensioni:  $\sigma_N=-24.62$   $\sigma_M=-86.06$   $\tau=55.08$   $\sigma_{max}=-110.68$   
 Tensioni:  $\sigma_N=-24.62$   $\sigma_M=0.00$   $\tau=61.05$   $\tau_{max}=61.05$   
 Tensioni:  $\sigma_N=-24.62$   $\sigma_M=-86.06$   $\tau=55.47$   $\sigma_{ID,max}=146.56$

Asta n. 4354 (-10912 -10979) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-702.92 My,Ed=-48.28 Mz,Ed=-1.59  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.04+0.00=0.06  
 Verifica ZZ: 0.02+0.03+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-702.92 Tz=-94.39 My=-48.28 Ty=13.12 Mz=-1.59 Mx=-54.28  
 Tensioni:  $\sigma_N=-51.08$   $\sigma_M=-119.14$   $\tau=104.46$   $\sigma_{max}=-170.22$   
 Tensioni:  $\sigma_N=-51.08$   $\sigma_M=-4.88$   $\tau=116.69$   $\tau_{max}=116.69$   
 Tensioni:  $\sigma_N=-51.08$   $\sigma_M=-111.57$   $\tau=110.89$   $\sigma_{ID,max}=251.69$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-645.46 Tz=-124.69 My=-14.68 Ty=-2.23 Mz=-78.98  
 V,Ed=-2.23 Vc,Rd,Red=5229.87 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-124.69 Vc,Rd,Red=10459.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-378.31 Tz=-56.14 My=-36.23 Ty=2.56 Mz=-29.35  
 Tensioni:  $\sigma_N=-27.49$   $\sigma_M=-85.18$   $\tau=56.48$   $\sigma_{max}=-112.68$   
 Tensioni:  $\sigma_N=-27.49$   $\sigma_M=0.00$   $\tau=63.76$   $\tau_{max}=63.76$   
 Tensioni:  $\sigma_N=-27.49$   $\sigma_M=-85.18$   $\tau=57.09$   $\sigma_{ID,max}=149.91$

Asta n. 4354 (-10979 -11060) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-803.58 My,Ed=-36.35 Mz,Ed=-1.05  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.03+0.03+0.00=0.06  
 Verifica ZZ: 0.03+0.02+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3

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Sollecitazioni:  $N=-803.58$   $T_z=-97.46$   $M_y=-36.35$   $T_y=12.14$   $M_z=-1.05$   $M_x=-54.57$   
Tensioni:  $\sigma_N=-58.40$   $\sigma_M=-89.16$   $\tau=105.00$   $\sigma_{max}=-147.56$   
Tensioni:  $\sigma_N=-58.40$   $\sigma_M=-3.21$   $\tau=117.64$   $\tau_{max}=117.64$   
Tensioni:  $\sigma_N=-58.40$   $\sigma_M=-83.46$   $\tau=111.65$   $\sigma_{ID,max}=239.83$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-676.34$   $T_z=-125.87$   $T_y=2.60$   $M_x=-79.35$   
 $V,Ed=2.60$   $V_c,Rd,Red=5226.59$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-125.87$   $V_c,Rd,Red=10453.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-409.50$   $T_z=-57.54$   $M_y=-35.09$   $T_y=6.10$   $M_x=-29.36$   
Tensioni:  $\sigma_N=-29.76$   $\sigma_M=-82.50$   $\tau=56.49$   $\sigma_{max}=-112.26$   
Tensioni:  $\sigma_N=-29.76$   $\sigma_M=0.00$   $\tau=63.95$   $\tau_{max}=63.95$   
Tensioni:  $\sigma_N=-29.76$   $\sigma_M=-82.50$   $\tau=57.94$   $\sigma_{ID,max}=150.58$

Asta n. 4354 (-11060 -11122) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1910.11$   $M_y,Ed=-34.93$   $M_z,Ed=-8.05$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.06+0.03+0.01=0.10$   
Verifica ZZ:  $0.06+0.02+0.01=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-1910.02$   $T_z=117.63$   $M_y=-34.93$   $T_y=68.91$   $M_z=-1.31$   $M_x=-14.90$   
Tensioni:  $\sigma_N=-138.81$   $\sigma_M=-86.77$   $\tau=28.68$   $\sigma_{max}=-225.58$   
Tensioni:  $\sigma_N=-138.81$   $\sigma_M=-76.65$   $\tau=45.10$   $\tau_{max}=45.10$   
Tensioni:  $\sigma_N=-138.81$   $\sigma_M=-86.15$   $\tau=42.33$   $\sigma_{ID,max}=236.61$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-1016.97$   $T_z=181.23$   $T_y=38.41$   $M_z=-4.37$   $M_x=-39.37$   
 $V,Ed=38.41$   $V_c,Rd,Red=5579.46$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=181.23$   $V_c,Rd,Red=11158.90$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-671.49$   $T_z=100.15$   $M_y=-35.05$   $T_y=27.69$   $M_z=-3.34$   $M_x=-13.33$   
Tensioni:  $\sigma_N=-48.80$   $\sigma_M=-94.24$   $\tau=25.65$   $\sigma_{max}=-143.03$   
Tensioni:  $\sigma_N=-48.80$   $\sigma_M=10.25$   $\tau=38.64$   $\tau_{max}=38.64$   
Tensioni:  $\sigma_N=-48.80$   $\sigma_M=-92.66$   $\tau=31.14$   $\sigma_{ID,max}=151.39$

Asta n. 4354 (-11122 -11188) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2078.63$   $M_y,Ed=-49.10$   $M_z,Ed=-2.28$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.07+0.04+0.00=0.11$   
Verifica ZZ:  $0.07+0.03+0.00=0.10$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.05$  - Classe 3  
Sollecitazioni:  $N=-1766.34$   $T_z=150.36$   $M_y=-54.40$   $T_y=19.45$   $M_z=-1.06$   $M_x=-15.99$   
Tensioni:  $\sigma_N=-128.37$   $\sigma_M=-131.63$   $\tau=30.77$   $\sigma_{max}=-260.00$   
Tensioni:  $\sigma_N=-128.37$   $\sigma_M=3.24$   $\tau=50.26$   $\tau_{max}=50.26$   
Tensioni:  $\sigma_N=-128.37$   $\sigma_M=-131.14$   $\tau=34.63$   $\sigma_{ID,max}=266.34$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.03$   
Sollecitazioni:  $N=-1144.71$   $T_z=184.33$   $M_y=-25.21$   $T_y=19.61$   $M_x=-39.23$   
 $V,Ed=19.61$   $V_c,Rd,Red=5580.66$   $V,Ed/V_c,Rd,Red=0.00$

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- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=184.33 Vc,Rd,Red=11161.30 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-765.65 Tz=95.38 My=-40.06 Ty=13.20 Mx=-13.25  
Tensioni:  $\sigma_N=-55.64$   $\sigma_M=-94.19$   $\tau=25.49$   $\sigma_{max}=-149.83$   
Tensioni:  $\sigma_N=-55.64$   $\sigma_M=0.00$   $\tau=37.85$   $\tau_{max}=37.85$   
Tensioni:  $\sigma_N=-55.64$   $\sigma_M=-94.19$   $\tau=28.63$   $\sigma_{ID,max}=157.83$

Asta n. 4354 (-11188 -11254) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-1935.70 My,Ed=-76.71 Mz,Ed=-0.99  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.06+0.00=0.13  
Verifica ZZ: 0.06+0.05+0.00=0.11

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-2261.21 Tz=103.97 My=-55.22 Ty=8.51 Mz=-1.03 Mx=-16.10  
Tensioni:  $\sigma_N=-164.33$   $\sigma_M=-133.47$   $\tau=30.98$   $\sigma_{max}=-297.80$   
Tensioni:  $\sigma_N=-164.33$   $\sigma_M=3.16$   $\tau=44.46$   $\tau_{max}=44.46$   
Tensioni:  $\sigma_N=-164.33$   $\sigma_M=-132.98$   $\tau=32.67$   $\sigma_{ID,max}=302.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-1276.29 Tz=164.55 My=-41.78 Ty=11.11 Mz=-41.08  
V,Ed=11.11 Vc,Rd,Red=5564.34 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=164.55 Vc,Rd,Red=11128.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-865.12 Tz=84.39 My=-43.06 Ty=6.49 Mx=-13.83  
Tensioni:  $\sigma_N=-62.87$   $\sigma_M=-101.25$   $\tau=26.61$   $\sigma_{max}=-164.12$   
Tensioni:  $\sigma_N=-62.87$   $\sigma_M=0.00$   $\tau=37.55$   $\tau_{max}=37.55$   
Tensioni:  $\sigma_N=-62.87$   $\sigma_M=-101.25$   $\tau=28.15$   $\sigma_{ID,max}=171.21$

Asta n. 4354 (-11254 -11326) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-2105.40 My,Ed=-88.91 Mz,Ed=-0.74  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.07+0.07+0.00=0.14  
Verifica ZZ: 0.07+0.06+0.00=0.13

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.03 - Classe 3  
Sollecitazioni: N=-2450.55 Tz=79.58 My=-65.64 Ty=6.83 Mz=-1.03 Mx=-18.58  
Tensioni:  $\sigma_N=-178.09$   $\sigma_M=-157.97$   $\tau=35.74$   $\sigma_{max}=-336.07$   
Tensioni:  $\sigma_N=-178.09$   $\sigma_M=3.16$   $\tau=46.06$   $\tau_{max}=46.06$   
Tensioni:  $\sigma_N=-178.09$   $\sigma_M=-157.97$   $\tau=35.74$   $\sigma_{ID,max}=341.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-1397.66 Tz=134.69 My=-60.67 Ty=7.25 Mz=-44.50  
V,Ed=7.25 Vc,Rd,Red=5534.18 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=134.69 Vc,Rd,Red=11068.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-961.43 Tz=70.19 My=-45.79 Ty=4.08 Mx=-14.93  
Tensioni:  $\sigma_N=-69.87$   $\sigma_M=-107.65$   $\tau=28.74$   $\sigma_{max}=-177.52$   
Tensioni:  $\sigma_N=-69.87$   $\sigma_M=0.00$   $\tau=37.84$   $\tau_{max}=37.84$

Tensioni:  $\sigma_N=-69.87$   $\sigma_M=-107.65$   $\tau=29.71$   $\sigma_{ID,max}=184.83$

Asta n. 4354 (-11326 -11392) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2268.17 My,Ed=-96.69 Mz,Ed=-0.63

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.08+0.00=0.15

Verifica ZZ: 0.07+0.06+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3

Sollecitazioni: N=-2637.58 Tz=50.39 My=-73.33 Ty=5.73 Mz=-1.04 Mx=-21.87

Tensioni:  $\sigma_N=-191.68$   $\sigma_M=-176.09$   $\tau=42.08$   $\sigma_{max}=-367.77$

Tensioni:  $\sigma_N=-191.68$   $\sigma_M=3.18$   $\tau=48.61$   $\tau_{max}=48.61$

Tensioni:  $\sigma_N=-191.68$   $\sigma_M=-176.09$   $\tau=42.08$   $\sigma_{ID,max}=374.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00

Sollecitazioni: N=-1505.41 Tz=96.07 My=-75.83 Ty=5.17 Mx=-49.09

V,Ed=5.17 Vc,Rd,Red=5493.61 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=96.07 Vc,Rd,Red=10987.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1051.99 Tz=52.94 My=-47.88 Ty=2.93 Mx=-16.48

Tensioni:  $\sigma_N=-76.45$   $\sigma_M=-112.58$   $\tau=31.72$   $\sigma_{max}=-189.03$

Tensioni:  $\sigma_N=-76.45$   $\sigma_M=0.00$   $\tau=38.58$   $\tau_{max}=38.58$

Tensioni:  $\sigma_N=-76.45$   $\sigma_M=-112.58$   $\tau=32.42$   $\sigma_{ID,max}=197.19$

Asta n. 4354 (-11392 -11462) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2421.62 My,Ed=-99.64 Mz,Ed=-0.61

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.08+0.08+0.00=0.16

Verifica ZZ: 0.08+0.06+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3

Sollecitazioni: N=-2818.37 Tz=17.58 My=-78.03 Ty=5.13 Mz=-1.02 Mx=-25.49

Tensioni:  $\sigma_N=-204.82$   $\sigma_M=-187.09$   $\tau=49.05$   $\sigma_{max}=-391.91$

Tensioni:  $\sigma_N=-204.82$   $\sigma_M=3.14$   $\tau=51.33$   $\tau_{max}=51.33$

Tensioni:  $\sigma_N=-204.82$   $\sigma_M=-187.09$   $\tau=49.05$   $\sigma_{ID,max}=401.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00

Sollecitazioni: N=-1600.38 Tz=55.35 My=-86.25 Ty=4.35 Mx=-54.10

V,Ed=4.35 Vc,Rd,Red=5449.44 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=55.35 Vc,Rd,Red=10898.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1136.52 Tz=35.28 My=-48.97 Ty=2.42 Mx=-18.26

Tensioni:  $\sigma_N=-82.60$   $\sigma_M=-115.14$   $\tau=35.13$   $\sigma_{max}=-197.74$

Tensioni:  $\sigma_N=-82.60$   $\sigma_M=0.00$   $\tau=39.70$   $\tau_{max}=39.70$

Tensioni:  $\sigma_N=-82.60$   $\sigma_M=-115.14$   $\tau=35.71$   $\sigma_{ID,max}=207.19$

Asta n. 4354 (-11462 -11532) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2563.78 My,Ed=-99.44 Mz,Ed=-0.67

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

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$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.08+0.08+0.00=0.16  
Verifica ZZ: 0.08+0.06+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2990.37 Tz=-11.11 My=-79.04 Ty=4.35 Mz=-1.16 Mx=-28.86  
Tensioni:  $\sigma_N=-217.32$   $\sigma_M=-189.94$   $\tau=55.53$   $\sigma_{max}=-407.27$   
Tensioni:  $\sigma_N=-217.32$   $\sigma_M=-3.56$   $\tau=56.97$   $\tau_{max}=56.97$   
Tensioni:  $\sigma_N=-217.32$   $\sigma_M=-189.94$   $\tau=55.53$   $\sigma_{ID,max}=418.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU Xl=0.10  
Sollecitazioni: N=-516.93 Tz=-30.09 My=-58.85 Ty=3.18 Mx=-15.24  
V,Ed=3.18 Vc,Rd,Red=5792.36 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-30.09 Vc,Rd,Red=11584.70 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1214.47 Tz=-25.03 My=-48.95 Ty=1.80 Mx=-19.99  
Tensioni:  $\sigma_N=-88.26$   $\sigma_M=-115.08$   $\tau=38.47$   $\sigma_{max}=-203.34$   
Tensioni:  $\sigma_N=-88.26$   $\sigma_M=0.00$   $\tau=41.71$   $\tau_{max}=41.71$   
Tensioni:  $\sigma_N=-88.26$   $\sigma_M=-115.08$   $\tau=38.89$   $\sigma_{ID,max}=214.21$

Asta n. 4354 (-11532 -11602) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-2691.86 My,Ed=-97.00 Mz,Ed=-0.84  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.09+0.08+0.00=0.17  
Verifica ZZ: 0.09+0.06+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-3151.24 Tz=-38.54 My=-76.79 Ty=6.41 Mz=-1.29 Mx=-31.56  
Tensioni:  $\sigma_N=-229.01$   $\sigma_M=-185.11$   $\tau=60.73$   $\sigma_{max}=-414.13$   
Tensioni:  $\sigma_N=-229.01$   $\sigma_M=-3.96$   $\tau=65.72$   $\tau_{max}=65.72$   
Tensioni:  $\sigma_N=-229.01$   $\sigma_M=-185.11$   $\tau=60.73$   $\sigma_{ID,max}=427.28$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-1409.32 Tz=-53.48 My=-97.69 Ty=1.64 Mx=-36.21  
V,Ed=1.64 Vc,Rd,Red=5607.32 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-53.48 Vc,Rd,Red=11214.60 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1284.17 Tz=-33.88 My=-48.44 Ty=2.00 Mx=-21.42  
Tensioni:  $\sigma_N=-93.33$   $\sigma_M=-113.90$   $\tau=41.22$   $\sigma_{max}=-207.23$   
Tensioni:  $\sigma_N=-93.33$   $\sigma_M=0.00$   $\tau=45.61$   $\tau_{max}=45.61$   
Tensioni:  $\sigma_N=-93.33$   $\sigma_M=-113.90$   $\tau=41.70$   $\sigma_{ID,max}=219.45$

Asta n. 4354 (-11602 -11676) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-3307.09 My,Ed=-71.35 Mz,Ed=-1.39  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.06+0.00=0.17  
Verifica ZZ: 0.11+0.05+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2811.26 Tz=-66.44 My=-90.70 Ty=12.54 Mz=-1.05 Mx=-39.42



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Tensioni:  $\sigma_N=-204.31$   $\sigma_M=-216.98$   $\tau=75.85$   $\sigma_{max}=-421.28$   
 Tensioni:  $\sigma_N=-204.31$   $\sigma_M=-3.22$   $\tau=84.46$   $\tau_{max}=84.46$   
 Tensioni:  $\sigma_N=-204.31$   $\sigma_M=-216.48$   $\tau=78.34$   $\sigma_{ID,max}=442.12$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1449.09$   $T_z=-75.77$   $M_y=-88.74$   $T_y=3.50$   $M_x=-38.36$   
 $V,Ed=3.50$   $Vc,Rd,Red=5588.33$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-75.77$   $Vc,Rd,Red=11176.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1347.89$   $T_z=-41.38$   $M_y=-46.57$   $T_y=5.96$   $M_x=-22.27$   
 Tensioni:  $\sigma_N=-97.96$   $\sigma_M=-109.50$   $\tau=42.86$   $\sigma_{max}=-207.46$   
 Tensioni:  $\sigma_N=-97.96$   $\sigma_M=0.00$   $\tau=48.23$   $\tau_{max}=48.23$   
 Tensioni:  $\sigma_N=-97.96$   $\sigma_M=-109.50$   $\tau=44.28$   $\sigma_{ID,max}=221.18$

Asta n. 4354 (-11676 -11740) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3450.51$   $M_y,Ed=-64.03$   $M_z,Ed=5.69$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, $y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, $z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.11+0.05+0.01=0.17$   
 Verifica ZZ:  $0.11+0.04+0.01=0.16$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-2918.11$   $T_z=-74.74$   $M_y=-79.48$   $T_y=47.03$   $M_z=1.21$   $M_x=-39.78$   
 Tensioni:  $\sigma_N=-212.07$   $\sigma_M=-191.15$   $\tau=76.55$   $\sigma_{max}=-403.22$   
 Tensioni:  $\sigma_N=-212.07$   $\sigma_M=-174.40$   $\tau=87.75$   $\tau_{max}=87.75$   
 Tensioni:  $\sigma_N=-212.07$   $\sigma_M=-190.58$   $\tau=85.88$   $\sigma_{ID,max}=429.25$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3450.51$   $T_z=-62.11$   $M_y=-64.03$   $T_y=61.84$   $M_x=-33.36$   
 $V,Ed=61.84$   $Vc,Rd,Red=5632.51$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-62.11$   $Vc,Rd,Red=11265.00$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1406.02$   $T_z=-49.21$   $M_y=-41.53$   $T_y=25.29$   $M_z=2.73$   $M_x=-22.44$   
 Tensioni:  $\sigma_N=-102.18$   $\sigma_M=-107.31$   $\tau=43.18$   $\sigma_{max}=-209.49$   
 Tensioni:  $\sigma_N=-102.18$   $\sigma_M=8.37$   $\tau=49.56$   $\tau_{max}=49.56$   
 Tensioni:  $\sigma_N=-102.18$   $\sigma_M=-106.02$   $\tau=48.19$   $\sigma_{ID,max}=224.31$

Asta n. 4354 (-11740 -11806) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4374.00$   $M_y,Ed=-70.31$   $M_z,Ed=2.43$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, $y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, $z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.14+0.06+0.00=0.20$   
 Verifica ZZ:  $0.14+0.05+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=-4373.95$   $T_z=82.94$   $M_y=-66.68$   $T_y=-24.29$   $M_z=1.13$   $M_x=-8.77$   
 Tensioni:  $\sigma_N=-317.87$   $\sigma_M=-160.79$   $\tau=16.87$   $\sigma_{max}=-478.66$   
 Tensioni:  $\sigma_N=-317.87$   $\sigma_M=-3.48$   $\tau=27.62$   $\tau_{max}=27.62$   
 Tensioni:  $\sigma_N=-317.87$   $\sigma_M=-160.79$   $\tau=16.87$   $\sigma_{ID,max}=479.55$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2298.38$   $T_z=113.31$   $M_y=-80.82$   $T_y=3.38$   $M_x=-36.66$   
 $V,Ed=3.38$   $Vc,Rd,Red=5603.32$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=113.31 Vc,Rd,Red=11206.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1770.33 T<sub>z</sub>=71.35 M<sub>y</sub>=-49.44 T<sub>y</sub>=5.45 M<sub>x</sub>=-12.09  
Tensioni:  $\sigma_N$ =-128.66  $\sigma_M$ =-116.23  $\tau$ =23.26  $\sigma_{max}$ =-244.89  
Tensioni:  $\sigma_N$ =-128.66  $\sigma_M$ =0.00  $\tau$ =32.51  $\tau_{max}$ =32.51  
Tensioni:  $\sigma_N$ =-128.66  $\sigma_M$ =-116.23  $\tau$ =24.56  $\sigma_{ID,max}$ =248.56
- Asta n. 4354 (-11806 -11861) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4369.95 My,Ed=-79.80 Mz,Ed=-0.51  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358000.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387600.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.06+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.19
- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2604.62 T<sub>z</sub>=100.19 M<sub>y</sub>=-111.41 T<sub>y</sub>=6.78 M<sub>x</sub>=-16.65  
My,Ed=-111.41 My,c,Rd=1184.58  
N,Ed=-2604.62 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.08  
MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.09
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-2353.58 T<sub>z</sub>=112.05 M<sub>y</sub>=-93.90 T<sub>y</sub>=10.73 M<sub>x</sub>=-36.80  
V,Ed=10.73 Vc,Rd,Red=5602.09 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=112.05 Vc,Rd,Red=11204.20 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1825.40 T<sub>z</sub>=67.09 M<sub>y</sub>=-56.89 T<sub>y</sub>=8.01 M<sub>x</sub>=-12.15  
Tensioni:  $\sigma_N$ =-132.66  $\sigma_M$ =-133.76  $\tau$ =23.37  $\sigma_{max}$ =-266.42  
Tensioni:  $\sigma_N$ =-132.66  $\sigma_M$ =0.00  $\tau$ =32.07  $\tau_{max}$ =32.07  
Tensioni:  $\sigma_N$ =-132.66  $\sigma_M$ =-133.76  $\tau$ =25.28  $\sigma_{ID,max}$ =270.00
- Asta n. 4354 (-11861 -11994) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4411.50 My,Ed=-87.52 Mz,Ed=-0.82  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.07+0.00=0.21  
Verifica ZZ: 0.14+0.06+0.00=0.20
- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2689.73 T<sub>z</sub>=78.90 M<sub>y</sub>=-121.39 T<sub>y</sub>=4.39 M<sub>x</sub>=-18.56  
My,Ed=-121.39 My,c,Rd=1184.58  
N,Ed=-2689.73 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.10
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-2430.67 T<sub>z</sub>=90.92 M<sub>y</sub>=-106.78 T<sub>y</sub>=8.45 M<sub>x</sub>=-38.70  
V,Ed=8.45 Vc,Rd,Red=5585.34 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=90.92 Vc,Rd,Red=11170.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1897.09 T<sub>z</sub>=54.39 M<sub>y</sub>=-63.19 T<sub>y</sub>=5.28 M<sub>x</sub>=-12.78  
Tensioni:  $\sigma_N$ =-137.87  $\sigma_M$ =-148.56  $\tau$ =24.59  $\sigma_{max}$ =-286.43  
Tensioni:  $\sigma_N$ =-137.87  $\sigma_M$ =0.00  $\tau$ =31.64  $\tau_{max}$ =31.64  
Tensioni:  $\sigma_N$ =-137.87  $\sigma_M$ =-148.56  $\tau$ =25.84  $\sigma_{ID,max}$ =289.91

Asta n. 4354 (-11994 -12095) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4480.89 My,Ed=-92.23 Mz,Ed=-0.90  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.07+0.00=0.22  
 Verifica ZZ: 0.15+0.06+0.00=0.21
  
  - Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-2782.64 Tz=47.51 My=-127.71 Ty=2.48 Mx=-22.03  
 My,Ed=-127.71 My,c,Rd=1184.58  
 N,Ed=-2782.64 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.11
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-2513.13 Tz=59.63 My=-117.00 Ty=6.40 Mx=-42.15  
 V,Ed=6.40 Vc,Rd,Red=5554.86 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=59.63 Vc,Rd,Red=11109.70 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1974.03 Tz=37.22 My=-67.53 Ty=3.70 Mx=-13.98  
 Tensioni:  $\sigma_N=-143.46$   $\sigma_M=-158.76$   $\tau=26.89$   $\sigma_{max}=-302.22$   
 Tensioni:  $\sigma_N=-143.46$   $\sigma_M=0.00$   $\tau=31.72$   $\tau_{max}=31.72$   
 Tensioni:  $\sigma_N=-143.46$   $\sigma_M=-158.76$   $\tau=27.78$   $\sigma_{ID,max}=306.03$

Asta n. 4354 (-12095 -12143) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4558.50 My,Ed=-93.36 Mz,Ed=-0.84  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.08+0.00=0.22  
 Verifica ZZ: 0.15+0.06+0.00=0.21
  
  - Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-2871.46 Tz=8.83 My=-129.42 Ty=1.22 Mx=-26.55  
 My,Ed=-129.42 My,c,Rd=1184.58  
 N,Ed=-2871.46 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.11
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-2590.07 Tz=20.99 My=-123.34 Ty=5.07 Mx=-46.66  
 V,Ed=5.07 Vc,Rd,Red=5515.06 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=20.99 Vc,Rd,Red=11030.10 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2048.83 Tz=-18.31 My=-69.46 Ty=2.71 Mx=-15.61  
 Tensioni:  $\sigma_N=-148.90$   $\sigma_M=-163.31$   $\tau=30.03$   $\sigma_{max}=-312.21$   
 Tensioni:  $\sigma_N=-148.90$   $\sigma_M=0.00$   $\tau=32.40$   $\tau_{max}=32.40$   
 Tensioni:  $\sigma_N=-148.90$   $\sigma_M=-163.31$   $\tau=30.67$   $\sigma_{ID,max}=316.70$

Asta n. 4354 (-12143 -12222) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4638.79 My,Ed=-93.10 Mz,Ed=-0.86  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.15+0.07+0.00=0.23$   
 Verifica ZZ:  $0.15+0.06+0.00=0.21$

- Verifica a pressoflessione retta - CC 54 SLU  $X1=0.00$  - Classe 1  
 Sollecitazioni:  $N=-2953.65$   $T_z=-27.55$   $M_y=-129.11$   $T_y=4.02$   $M_x=-31.44$   
 $M_y,Ed=-129.11$   $M_y,c,Rd=1184.58$   
 $N,Ed=-2953.65$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.10$   
 $MNy,c,Rd=1184.58$   $M_y,Ed/MNy,c,Rd=0.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-2220.13$   $T_z=-37.90$   $M_y=-116.05$   $T_y=3.43$   $M_x=-22.42$   
 $V,Ed=3.43$   $Vc,Rd,Red=5729.05$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-37.90$   $Vc,Rd,Red=11458.10$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2119.91$   $T_z=-22.19$   $M_y=-69.48$   $T_y=1.81$   $M_x=-17.49$   
 Tensioni:  $\sigma_N=-154.06$   $\sigma_M=-163.36$   $\tau=33.66$   $\sigma_{max}=-317.42$   
 Tensioni:  $\sigma_N=-154.06$   $\sigma_M=0.00$   $\tau=36.53$   $\tau_{max}=36.53$   
 Tensioni:  $\sigma_N=-154.06$   $\sigma_M=-163.36$   $\tau=34.09$   $\sigma_{ID,max}=322.87$

Asta n. 4354 (-12222 -12294) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4718.59$   $M_y,Ed=-89.55$   $M_z,Ed=-1.01$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.07+0.00=0.23$   
 Verifica ZZ:  $0.15+0.06+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4718.59$   $T_z=-53.26$   $M_y=-89.55$   $M_z=-1.01$   $M_x=-22.96$   
 Tensioni:  $\sigma_N=-342.92$   $\sigma_M=-214.13$   $\tau=44.19$   $\sigma_{max}=-557.05$   
 Tensioni:  $\sigma_N=-342.92$   $\sigma_M=-3.59$   $\tau=51.09$   $\tau_{max}=51.09$   
 Tensioni:  $\sigma_N=-342.92$   $\sigma_M=-214.13$   $\tau=44.19$   $\sigma_{ID,max}=562.28$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-2270.06$   $T_z=-76.90$   $M_y=-107.39$   $T_y=2.27$   $M_x=-27.01$   
 $V,Ed=2.27$   $Vc,Rd,Red=5688.49$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-76.90$   $Vc,Rd,Red=11377.00$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2185.62$   $T_z=-34.54$   $M_y=-68.34$   $T_y=1.01$   $M_x=-19.33$   
 Tensioni:  $\sigma_N=-158.84$   $\sigma_M=-160.68$   $\tau=37.19$   $\sigma_{max}=-319.52$   
 Tensioni:  $\sigma_N=-158.84$   $\sigma_M=0.00$   $\tau=41.67$   $\tau_{max}=41.67$   
 Tensioni:  $\sigma_N=-158.84$   $\sigma_M=-160.68$   $\tau=37.44$   $\sigma_{ID,max}=326.03$

Asta n. 4354 (-12294 -12362) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4797.66$   $M_y,Ed=-82.37$   $M_z,Ed=-1.31$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.07+0.00=0.22$   
 Verifica ZZ:  $0.16+0.05+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4797.66$   $T_z=-79.76$   $M_y=-82.37$   $T_y=1.32$   $M_z=-1.31$   $M_x=-25.57$   
 Tensioni:  $\sigma_N=-348.67$   $\sigma_M=-198.29$   $\tau=49.20$   $\sigma_{max}=-546.96$   
 Tensioni:  $\sigma_N=-348.67$   $\sigma_M=-4.62$   $\tau=59.54$   $\tau_{max}=59.54$   
 Tensioni:  $\sigma_N=-348.67$   $\sigma_M=-198.29$   $\tau=49.20$   $\sigma_{ID,max}=553.56$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_1=0.10$   
Sollecitazioni:  $N=-2308.07$   $T_z=-109.02$   $M_y=-94.73$   $M_x=-30.58$   
 $V, Ed=-109.02$   $V_c, Rd, Red=11313.90$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-2244.88$   $T_z=-49.69$   $M_y=-64.73$   $M_x=-20.81$   
Tensioni:  $\sigma_N=-163.15$   $\sigma_M=-152.18$   $\tau=40.04$   $\sigma_{max}=-315.33$   
Tensioni:  $\sigma_N=-163.15$   $\sigma_M=0.00$   $\tau=46.48$   $\tau_{max}=46.48$   
Tensioni:  $\sigma_N=-163.15$   $\sigma_M=-152.18$   $\tau=40.04$   $\sigma_{ID, max}=322.87$
- Asta n. 4354 (-12362 -12428) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-4885.94$   $M_y, Ed=-72.13$   $M_z, Ed=-1.72$   
Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr, y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr, z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.06+0.00=0.22$   
Verifica ZZ:  $0.16+0.05+0.00=0.21$
- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-4271.40$   $T_z=-120.18$   $M_y=-90.67$   $T_y=8.86$   $M_z=-1.41$   $M_x=-33.14$   
Tensioni:  $\sigma_N=-310.42$   $\sigma_M=-218.18$   $\tau=63.77$   $\sigma_{max}=-528.60$   
Tensioni:  $\sigma_N=-310.42$   $\sigma_M=-4.34$   $\tau=79.35$   $\tau_{max}=79.35$   
Tensioni:  $\sigma_N=-310.42$   $\sigma_M=-218.18$   $\tau=63.77$   $\sigma_{ID, max}=540.01$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_1=0.10$   
Sollecitazioni:  $N=-2335.67$   $T_z=-130.92$   $M_y=-79.33$   $T_y=2.35$   $M_x=-32.62$   
 $V, Ed=2.35$   $V_c, Rd, Red=5639.04$   $V, Ed/V_c, Rd, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-130.92$   $V_c, Rd, Red=11278.10$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-2300.72$   $T_z=-62.28$   $M_y=-59.08$   $T_y=5.57$   $M_x=-21.66$   
Tensioni:  $\sigma_N=-167.20$   $\sigma_M=-138.91$   $\tau=41.68$   $\sigma_{max}=-306.11$   
Tensioni:  $\sigma_N=-167.20$   $\sigma_M=0.00$   $\tau=49.75$   $\tau_{max}=49.75$   
Tensioni:  $\sigma_N=-167.20$   $\sigma_M=-138.91$   $\tau=43.01$   $\sigma_{ID, max}=315.05$
- Asta n. 4354 (-12428 -12508) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-4991.02$   $M_y, Ed=-60.11$   $M_z, Ed=7.11$   
Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr, y}=55358000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr, z}=18387600.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.05+0.01=0.22$   
Verifica ZZ:  $0.16+0.04+0.01=0.21$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
Sollecitazioni:  $N=-4990.92$   $T_z=-107.22$   $M_y=-49.91$   $T_y=82.37$   $M_z=7.11$   $M_x=-27.09$   
Tensioni:  $\sigma_N=-362.71$   $\sigma_M=-142.50$   $\tau=52.14$   $\sigma_{max}=-505.21$   
Tensioni:  $\sigma_N=-362.71$   $\sigma_M=-109.53$   $\tau=71.75$   $\tau_{max}=71.75$   
Tensioni:  $\sigma_N=-362.71$   $\sigma_M=-139.15$   $\tau=68.46$   $\sigma_{ID, max}=515.68$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_1=0.00$   
Sollecitazioni:  $N=-4991.02$   $T_z=-101.39$   $M_y=-60.11$   $T_y=82.37$   $M_x=-27.09$   
 $V, Ed=82.37$   $V_c, Rd, Red=5687.77$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-101.39$   $V_c, Rd, Red=11375.50$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.01$  - Classe 3  
Sollecitazioni:  $N=-2359.15$   $T_z=-66.77$   $M_y=-51.65$   $T_y=38.93$   $M_z=-1.00$   $M_x=-21.70$   
Tensioni:  $\sigma_N=-171.45$   $\sigma_M=-124.99$   $\tau=41.76$   $\sigma_{max}=-296.44$

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Tensioni:  $\sigma_N=-171.45$   $\sigma_M=-113.35$   $\tau=51.03$   $\tau_{max}=51.03$   
Tensioni:  $\sigma_N=-171.45$   $\sigma_M=-124.52$   $\tau=49.48$   $\sigma_{ID,max}=308.12$

Asta n. 4354 (-12508 -12592) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5776.64 My,Ed=-64.72 Mz,Ed=7.83  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.05+0.01=0.25  
Verifica ZZ: 0.19+0.04+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-5776.64 Tz=82.50 My=-56.94 Ty=-78.63 Mz=7.83 Mx=2.84  
Tensioni:  $\sigma_N=-419.81$   $\sigma_M=-161.60$   $\tau=5.46$   $\sigma_{max}=-581.41$   
Tensioni:  $\sigma_N=-419.81$   $\sigma_M=-124.96$   $\tau=24.20$   $\tau_{max}=24.20$   
Tensioni:  $\sigma_N=-419.81$   $\sigma_M=-161.60$   $\tau=5.46$   $\sigma_{ID,max}=581.49$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.09  
Sollecitazioni: N=-5776.55 Tz=77.21 My=-64.04 Ty=-78.63 Mx=2.84  
V,Ed=-78.63 Vc,Rd,Red=5901.84 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=77.21 Vc,Rd,Red=11803.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2760.71 Tz=59.67 My=-54.54 Ty=-17.59 Mx=6.37  
Tensioni:  $\sigma_N=-200.63$   $\sigma_M=-128.23$   $\tau=12.27$   $\sigma_{max}=-328.86$   
Tensioni:  $\sigma_N=-200.63$   $\sigma_M=0.00$   $\tau=20.00$   $\tau_{max}=20.00$   
Tensioni:  $\sigma_N=-200.63$   $\sigma_M=-128.23$   $\tau=16.45$   $\sigma_{ID,max}=330.09$

Asta n. 4354 (-12592 -12666) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5679.73 My,Ed=-73.86 Mz,Ed=-1.04  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.18+0.06+0.00=0.25  
Verifica ZZ: 0.18+0.05+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-5679.64 Tz=73.16 My=-73.86 Ty=-11.73 Mz=-1.04 Mx=2.82  
Tensioni:  $\sigma_N=-412.76$   $\sigma_M=-177.35$   $\tau=5.43$   $\sigma_{max}=-590.11$   
Tensioni:  $\sigma_N=-412.76$   $\sigma_M=-3.19$   $\tau=14.92$   $\tau_{max}=14.92$   
Tensioni:  $\sigma_N=-412.76$   $\sigma_M=-177.35$   $\tau=5.43$   $\sigma_{ID,max}=590.19$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00  
Sollecitazioni: N=-2399.16 Tz=100.66 My=-79.87 Ty=1.71 Mx=-13.22  
V,Ed=1.71 Vc,Rd,Red=5810.26 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=100.66 Vc,Rd,Red=11620.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2787.17 Tz=56.16 My=-60.89 Ty=-2.65 Mx=6.42  
Tensioni:  $\sigma_N=-202.56$   $\sigma_M=-143.15$   $\tau=12.35$   $\sigma_{max}=-345.70$   
Tensioni:  $\sigma_N=-202.56$   $\sigma_M=0.00$   $\tau=19.63$   $\tau_{max}=19.63$   
Tensioni:  $\sigma_N=-202.56$   $\sigma_M=-143.15$   $\tau=12.98$   $\sigma_{ID,max}=346.43$

Asta n. 4354 (-12666 -12737) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5649.27 My,Ed=-81.33 Mz,Ed=-1.01  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.18+0.07+0.00=0.25$

Verifica ZZ:  $0.18+0.05+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.01 - Classe 3  
Sollecitazioni: N=-5649.26 T<sub>z</sub>=62.28 M<sub>y</sub>=-76.03 M<sub>z</sub>=-1.00 M<sub>x</sub>=1.49  
Tensioni:  $\sigma_N=-410.56$   $\sigma_M=-182.30$   $\tau=2.86$   $\sigma_{max}=-592.86$   
Tensioni:  $\sigma_N=-410.56$   $\sigma_M=-3.55$   $\tau=10.93$   $\tau_{max}=10.93$   
Tensioni:  $\sigma_N=-410.56$   $\sigma_M=-182.30$   $\tau=2.86$   $\sigma_{ID,max}=592.88$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00  
Sollecitazioni: N=-2433.01 T<sub>z</sub>=79.96 M<sub>y</sub>=-91.53 T<sub>y</sub>=2.00 M<sub>x</sub>=-15.09  
V,Ed=2.00 Vc,Rd,Red=5793.69 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=79.96 Vc,Rd,Red=11587.40 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2840.51 T<sub>z</sub>=43.34 M<sub>y</sub>=-66.00 T<sub>y</sub>=5.12 M<sub>x</sub>=-6.14  
Tensioni:  $\sigma_N=-206.43$   $\sigma_M=-155.18$   $\tau=11.82$   $\sigma_{max}=-361.61$   
Tensioni:  $\sigma_N=-206.43$   $\sigma_M=0.00$   $\tau=17.44$   $\tau_{max}=17.44$   
Tensioni:  $\sigma_N=-206.43$   $\sigma_M=-155.18$   $\tau=13.04$   $\sigma_{ID,max}=362.32$

Asta n. 4354 (-12737 -12807) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5657.00 M<sub>y,Ed</sub>=-85.70 M<sub>z,Ed</sub>=-1.08  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY:  $0.18+0.07+0.00=0.25$   
Verifica ZZ:  $0.18+0.06+0.00=0.24$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.03 - Classe 3  
Sollecitazioni: N=-5656.98 T<sub>z</sub>=34.49 M<sub>y</sub>=-83.40 T<sub>y</sub>=2.72 M<sub>z</sub>=-1.01 M<sub>x</sub>=-1.07  
Tensioni:  $\sigma_N=-411.12$   $\sigma_M=-199.66$   $\tau=2.06$   $\sigma_{max}=-610.78$   
Tensioni:  $\sigma_N=-411.12$   $\sigma_M=3.10$   $\tau=6.53$   $\tau_{max}=6.53$   
Tensioni:  $\sigma_N=-411.12$   $\sigma_M=-199.66$   $\tau=2.06$   $\sigma_{ID,max}=610.79$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU Xl=0.00  
Sollecitazioni: N=-2471.18 T<sub>z</sub>=48.28 M<sub>y</sub>=-100.58 M<sub>x</sub>=-18.56  
V,Ed=48.28 Vc,Rd,Red=11526.30 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2903.00 T<sub>z</sub>=25.95 M<sub>y</sub>=-69.07 T<sub>y</sub>=3.79 M<sub>x</sub>=-6.97  
Tensioni:  $\sigma_N=-210.97$   $\sigma_M=-162.39$   $\tau=13.42$   $\sigma_{max}=-373.36$   
Tensioni:  $\sigma_N=-210.97$   $\sigma_M=0.00$   $\tau=16.78$   $\tau_{max}=16.78$   
Tensioni:  $\sigma_N=-210.97$   $\sigma_M=-162.39$   $\tau=14.32$   $\sigma_{ID,max}=374.19$

Asta n. 4354 (-12807 -12877) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5679.42 M<sub>y,Ed</sub>=-86.58 M<sub>z,Ed</sub>=-0.96  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY:  $0.18+0.07+0.00=0.26$   
Verifica ZZ:  $0.18+0.06+0.00=0.24$
- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-3973.40 T<sub>z</sub>=3.93 M<sub>y</sub>=-119.85 M<sub>x</sub>=-11.74  
M<sub>y,Ed</sub>=-119.85 M<sub>y,c,Rd</sub>=1184.58  
N,Ed=-3973.40 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.13

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MNy, c, Rd=1184.58 My, Ed/MNy, c, Rd=0.10

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.00  
Sollecitazioni: N=-3594.10 T<sub>z</sub>=5.76 M<sub>y</sub>=-100.72 T<sub>y</sub>=5.64 M<sub>x</sub>=-14.62  
V, Ed=5.64 Vc, Rd, Red=5797.84 V, Ed/Vc, Rd, Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V, Ed=5.76 Vc, Rd, Red=11595.70 V, Ed/Vc, Rd, Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2964.81 T<sub>z</sub>=-9.27 M<sub>y</sub>=-69.70 T<sub>y</sub>=2.35 M<sub>x</sub>=-8.23  
Tensioni:  $\sigma_N$ =-215.47  $\sigma_M$ =-163.87  $\tau$ =15.83  $\sigma_{max}$ =-379.34  
Tensioni:  $\sigma_N$ =-215.47  $\sigma_M$ =0.00  $\tau$ =17.03  $\tau_{max}$ =17.03  
Tensioni:  $\sigma_N$ =-215.47  $\sigma_M$ =-163.87  $\tau$ =16.39  $\sigma_{ID, max}$ =380.40

Asta n. 4354 (-12877 -12954) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N, Ed=-5708.92 My, Ed=-86.31 Mz, Ed=-0.97  
Resistenze: Nc, Rd=30796.20 My, c, Rd=951.93 Mz, c, Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr, y=55358000.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr, z=18387600.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.07+0.00=0.26  
Verifica ZZ: 0.19+0.06+0.00=0.24

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-4027.99 T<sub>z</sub>=-33.38 M<sub>y</sub>=-119.51 T<sub>y</sub>=3.07 M<sub>x</sub>=-16.67  
My, Ed=-119.51 My, c, Rd=1184.58  
N, Ed=-4027.99 Nc, Rd=30796.20 n=N, Ed/Nc, Rd=0.13  
MNy, c, Rd=1184.58 My, Ed/MNy, c, Rd=0.10

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-5153.05 T<sub>z</sub>=-38.20 M<sub>y</sub>=-103.70 M<sub>x</sub>=-10.05  
V, Ed=-38.20 Vc, Rd, Red=11676.40 V, Ed/Vc, Rd, Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3023.23 T<sub>z</sub>=-21.83 M<sub>y</sub>=-69.52 T<sub>y</sub>=1.32 M<sub>x</sub>=-9.80  
Tensioni:  $\sigma_N$ =-219.71  $\sigma_M$ =-163.46  $\tau$ =18.87  $\sigma_{max}$ =-383.17  
Tensioni:  $\sigma_N$ =-219.71  $\sigma_M$ =0.00  $\tau$ =21.70  $\tau_{max}$ =21.70  
Tensioni:  $\sigma_N$ =-219.71  $\sigma_M$ =-163.46  $\tau$ =19.18  $\sigma_{ID, max}$ =384.61

Asta n. 4354 (-12954 -13038) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N, Ed=-5742.74 My, Ed=-82.38 Mz, Ed=-1.34  
Resistenze: Nc, Rd=30796.20 My, c, Rd=951.93 Mz, c, Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr, y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr, z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.07+0.00=0.25  
Verifica ZZ: 0.19+0.05+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-5742.74 T<sub>z</sub>=-56.26 M<sub>y</sub>=-82.38 T<sub>y</sub>=-1.89 M<sub>z</sub>=-1.15 M<sub>x</sub>=-11.35  
Tensioni:  $\sigma_N$ =-417.35  $\sigma_M$ =-197.76  $\tau$ =21.84  $\sigma_{max}$ =-615.11  
Tensioni:  $\sigma_N$ =-417.35  $\sigma_M$ =-3.54  $\tau$ =29.13  $\tau_{max}$ =29.13  
Tensioni:  $\sigma_N$ =-417.35  $\sigma_M$ =-197.76  $\tau$ =21.84  $\sigma_{ID, max}$ =616.27

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-3580.45 T<sub>z</sub>=-74.88 M<sub>y</sub>=-105.93 T<sub>y</sub>=-3.57 M<sub>x</sub>=-39.85  
V, Ed=-3.57 Vc, Rd, Red=5575.17 V, Ed/Vc, Rd, Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V, Ed=-74.88 Vc, Rd, Red=11150.30 V, Ed/Vc, Rd, Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3076.82 T<sub>z</sub>=-41.69 M<sub>y</sub>=-66.98 M<sub>x</sub>=-11.43



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Tensioni:  $\sigma_N=-223.61$   $\sigma_M=-157.48$   $\tau=22.00$   $\sigma_{max}=-381.09$   
 Tensioni:  $\sigma_N=-223.61$   $\sigma_M=0.00$   $\tau=27.41$   $\tau_{max}=27.41$   
 Tensioni:  $\sigma_N=-223.61$   $\sigma_M=-157.48$   $\tau=22.00$   $\sigma_{ID,max}=382.99$

Asta n. 4354 (-13038 -13105) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5780.27 My,Ed=-74.91 Mz,Ed=-1.68  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.06+0.00=0.25  
 Verifica ZZ: 0.19+0.05+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5227.76 Tz=-101.31 My=-93.33 Ty=-2.35 Mz=-1.19 Mx=-17.70  
 Tensioni:  $\sigma_N=-379.92$   $\sigma_M=-223.64$   $\tau=34.06$   $\sigma_{max}=-603.57$   
 Tensioni:  $\sigma_N=-379.92$   $\sigma_M=-3.66$   $\tau=47.19$   $\tau_{max}=47.19$   
 Tensioni:  $\sigma_N=-379.92$   $\sigma_M=-223.64$   $\tau=34.06$   $\sigma_{ID,max}=606.45$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-3605.88 Tz=-106.90 My=-93.47 Ty=-5.57 Mz=-43.42  
 V,Ed=-5.57 Vc,Rd,Red=5543.66 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-106.90 Vc,Rd,Red=11087.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3124.29 Tz=-59.80 My=-62.01 Mz=-12.80  
 Tensioni:  $\sigma_N=-227.06$   $\sigma_M=-145.79$   $\tau=24.63$   $\sigma_{max}=-372.85$   
 Tensioni:  $\sigma_N=-227.06$   $\sigma_M=0.00$   $\tau=32.39$   $\tau_{max}=32.39$   
 Tensioni:  $\sigma_N=-227.06$   $\sigma_M=-145.79$   $\tau=24.63$   $\sigma_{ID,max}=375.28$

Asta n. 4354 (-13105 -13183) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5839.40 My,Ed=-64.36 Mz,Ed=-2.14  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.05+0.00=0.24  
 Verifica ZZ: 0.19+0.04+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5839.40 Tz=-100.28 My=-64.36 Ty=12.85 Mz=-2.14 Mx=-15.45  
 Tensioni:  $\sigma_N=-424.38$   $\sigma_M=-158.90$   $\tau=29.72$   $\sigma_{max}=-583.28$   
 Tensioni:  $\sigma_N=-424.38$   $\sigma_M=-6.57$   $\tau=42.72$   $\tau_{max}=42.72$   
 Tensioni:  $\sigma_N=-424.38$   $\sigma_M=-158.90$   $\tau=29.72$   $\sigma_{ID,max}=585.54$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-3630.39 Tz=-129.38 My=-78.20 Mz=-45.47  
 V,Ed=-129.38 Vc,Rd,Red=11051.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3173.37 Tz=-73.65 My=-55.07 Ty=5.82 Mz=-13.60  
 Tensioni:  $\sigma_N=-230.62$   $\sigma_M=-129.47$   $\tau=26.16$   $\sigma_{max}=-360.10$   
 Tensioni:  $\sigma_N=-230.62$   $\sigma_M=0.00$   $\tau=35.71$   $\tau_{max}=35.71$   
 Tensioni:  $\sigma_N=-230.62$   $\sigma_M=-129.47$   $\tau=27.55$   $\sigma_{ID,max}=363.24$

Asta n. 4354 (-13183 -13246) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5935.12 My,Ed=-51.97 Mz,Ed=8.45  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

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$\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.04+0.01=0.25  
 Verifica ZZ: 0.19+0.03+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5935.12 Tz=-104.80 My=-51.97 Ty=100.08 Mz=-1.33 Mx=-15.62  
 Tensioni:  $\sigma_N=-431.33$   $\sigma_M=-126.90$   $\tau=30.05$   $\sigma_{max}=-558.23$   
 Tensioni:  $\sigma_N=-431.33$   $\sigma_M=-114.05$   $\tau=53.88$   $\tau_{max}=53.88$   
 Tensioni:  $\sigma_N=-431.33$   $\sigma_M=-126.27$   $\tau=49.89$   $\sigma_{ID,max}=564.26$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
 Sollecitazioni: N=-5935.11 Tz=-105.32 My=-51.04 Ty=100.08 Mz=-15.62  
 V,Ed=100.08 Vc,Rd,Red=5789.07 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-105.32 Vc,Rd,Red=11578.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3234.84 Tz=-77.91 My=-46.99 Ty=53.76 Mz=-1.07 Mx=-13.65  
 Tensioni:  $\sigma_N=-235.09$   $\sigma_M=-114.26$   $\tau=26.27$   $\sigma_{max}=-349.35$   
 Tensioni:  $\sigma_N=-235.09$   $\sigma_M=-103.11$   $\tau=39.07$   $\tau_{max}=39.07$   
 Tensioni:  $\sigma_N=-235.09$   $\sigma_M=-113.75$   $\tau=36.92$   $\sigma_{ID,max}=354.65$

Asta n. 4354 (-13246 -13315) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6652.45 My,Ed=-57.92 Mz,Ed=11.19  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.05+0.02=0.28  
 Verifica ZZ: 0.22+0.04+0.02=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6652.45 Tz=84.42 My=-49.95 Ty=-113.36 Mz=11.19 Mx=9.75  
 Tensioni:  $\sigma_N=-483.46$   $\sigma_M=-157.05$   $\tau=18.76$   $\sigma_{max}=-640.51$   
 Tensioni:  $\sigma_N=-483.46$   $\sigma_M=-109.61$   $\tau=45.76$   $\tau_{max}=45.76$   
 Tensioni:  $\sigma_N=-483.46$   $\sigma_M=-157.05$   $\tau=18.76$   $\sigma_{ID,max}=641.34$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
 Sollecitazioni: N=-6652.35 Tz=78.60 My=-57.92 Ty=-113.36 Mz=9.75  
 V,Ed=-113.36 Vc,Rd,Red=5840.84 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=78.60 Vc,Rd,Red=11681.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3651.97 Tz=59.53 My=-44.16 Ty=-39.79 Mz=4.47 Mx=10.83  
 Tensioni:  $\sigma_N=-265.40$   $\sigma_M=-119.66$   $\tau=20.85$   $\sigma_{max}=-385.06$   
 Tensioni:  $\sigma_N=-265.40$   $\sigma_M=-96.91$   $\tau=30.32$   $\tau_{max}=30.32$   
 Tensioni:  $\sigma_N=-265.40$   $\sigma_M=-119.66$   $\tau=20.85$   $\sigma_{ID,max}=386.75$

Asta n. 4354 (-13315 -13382) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6496.45 My,Ed=-67.31 Mz,Ed=-1.53  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.21+0.05+0.00=0.27  
 Verifica ZZ: 0.21+0.04+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6496.36 Tz=75.04 My=-67.31 Ty=-18.52 Mz=-1.53 Mx=9.64

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Tensioni:  $\sigma_N=-472.12$   $\sigma_M=-163.67$   $\tau=18.56$   $\sigma_{max}=-635.79$   
 Tensioni:  $\sigma_N=-472.12$   $\sigma_M=-4.69$   $\tau=28.29$   $\tau_{max}=28.29$   
 Tensioni:  $\sigma_N=-472.12$   $\sigma_M=-163.67$   $\tau=18.56$   $\sigma_{ID,max}=636.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3526.74$   $T_z=99.42$   $M_y=-72.64$   $T_y=-4.29$   $M_x=11.76$   
 $V,Ed=-4.29$   $Vc,Rd,Red=5823.16$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=99.42$   $Vc,Rd,Red=11646.30$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3644.16$   $T_z=52.09$   $M_y=-55.07$   $T_y=-3.01$   $M_x=10.85$   
 Tensioni:  $\sigma_N=-264.84$   $\sigma_M=-129.48$   $\tau=20.88$   $\sigma_{max}=-394.31$   
 Tensioni:  $\sigma_N=-264.84$   $\sigma_M=0.00$   $\tau=27.64$   $\tau_{max}=27.64$   
 Tensioni:  $\sigma_N=-264.84$   $\sigma_M=-129.48$   $\tau=21.60$   $\sigma_{ID,max}=396.08$

Asta n. 4354 (-13382 -13454) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6422.23$   $M_y,Ed=-74.91$   $M_z,Ed=-1.31$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21+0.06+0.00=0.27$   
 Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6422.14$   $T_z=57.78$   $M_y=-74.91$   $M_z=-1.31$   $M_x=8.24$   
 Tensioni:  $\sigma_N=-466.73$   $\sigma_M=-180.75$   $\tau=15.87$   $\sigma_{max}=-647.48$   
 Tensioni:  $\sigma_N=-466.73$   $\sigma_M=-4.63$   $\tau=23.36$   $\tau_{max}=23.36$   
 Tensioni:  $\sigma_N=-466.73$   $\sigma_M=-180.75$   $\tau=15.87$   $\sigma_{ID,max}=648.06$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2894.17$   $T_z=79.08$   $M_y=-81.14$   $T_y=1.48$   $M_x=-5.64$   
 $V,Ed=1.48$   $Vc,Rd,Red=5877.16$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=79.08$   $Vc,Rd,Red=11754.30$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3674.07$   $T_z=39.15$   $M_y=-59.78$   $T_y=4.87$   $M_z=-1.12$   $M_x=10.18$   
 Tensioni:  $\sigma_N=-267.01$   $\sigma_M=-144.50$   $\tau=19.60$   $\sigma_{max}=-411.51$   
 Tensioni:  $\sigma_N=-267.01$   $\sigma_M=-3.43$   $\tau=24.67$   $\tau_{max}=24.67$   
 Tensioni:  $\sigma_N=-267.01$   $\sigma_M=-144.50$   $\tau=19.60$   $\sigma_{ID,max}=412.91$

Asta n. 4354 (-13454 -13524) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6396.31$   $M_y,Ed=-79.39$   $M_z,Ed=-1.33$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21+0.06+0.00=0.27$   
 Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6396.21$   $T_z=30.91$   $M_y=-79.39$   $T_y=2.50$   $M_z=-1.09$   $M_x=5.62$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=-190.50$   $\tau=10.81$   $\sigma_{max}=-655.34$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=-3.34$   $\tau=14.82$   $\tau_{max}=14.82$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=-190.50$   $\tau=10.81$   $\sigma_{ID,max}=655.61$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2910.92$   $T_z=47.04$   $M_y=-90.12$   $M_x=-9.18$   
 $V,Ed=47.04$   $Vc,Rd,Red=11691.80$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3719.11$   $T_x=22.54$   $M_y=-62.48$   $T_y=3.79$   $M_z=-1.19$   $M_x=8.99$   
 Tensioni:  $\sigma_N=-270.28$   $\sigma_M=-151.10$   $\tau=17.30$   $\sigma_{max}=-421.38$   
 Tensioni:  $\sigma_N=-270.28$   $\sigma_M=-3.64$   $\tau=20.22$   $\tau_{max}=20.22$   
 Tensioni:  $\sigma_N=-270.28$   $\sigma_M=-151.10$   $\tau=17.30$   $\sigma_{ID,max}=422.44$

Asta n. 4354 (-13524 -13590) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6388.24$   $M_y,Ed=-80.42$   $M_z,Ed=-1.13$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21+0.06+0.00=0.27$   
 Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6388.15$   $T_x=2.40$   $M_y=-80.42$   $M_z=-1.04$   $M_x=2.30$   
 Tensioni:  $\sigma_N=-464.25$   $\sigma_M=-192.75$   $\tau=4.42$   $\sigma_{max}=-657.01$   
 Tensioni:  $\sigma_N=-464.25$   $\sigma_M=-3.67$   $\tau=4.73$   $\tau_{max}=4.73$   
 Tensioni:  $\sigma_N=-464.25$   $\sigma_M=-192.75$   $\tau=4.42$   $\sigma_{ID,max}=657.05$

- Verifica a taglio dir. Y [4.2.16] - CC 111 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-1257.47$   $T_x=11.15$   $M_y=-50.56$   $T_y=-3.34$   
 $V,Ed=-3.34$   $V_c,Rd=5926.90$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=11.15$   $V_c,Rd=11853.80$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3764.79$   $T_x=-9.79$   $M_y=-62.86$   $T_y=2.04$   $M_z=-1.22$   $M_x=7.54$   
 Tensioni:  $\sigma_N=-273.60$   $\sigma_M=-152.09$   $\tau=14.50$   $\sigma_{max}=-425.70$   
 Tensioni:  $\sigma_N=-273.60$   $\sigma_M=3.73$   $\tau=15.77$   $\tau_{max}=15.77$   
 Tensioni:  $\sigma_N=-273.60$   $\sigma_M=-152.09$   $\tau=14.50$   $\sigma_{ID,max}=426.44$

Asta n. 4354 (-13590 -13656) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6390.38$   $M_y,Ed=-80.19$   $M_z,Ed=-1.19$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21+0.06+0.00=0.27$   
 Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6390.38$   $T_x=-25.91$   $M_y=-80.19$   $M_z=-1.11$   $M_x=-1.38$   
 Tensioni:  $\sigma_N=-464.42$   $\sigma_M=-192.49$   $\tau=2.65$   $\sigma_{max}=-656.91$   
 Tensioni:  $\sigma_N=-464.42$   $\sigma_M=-3.94$   $\tau=6.01$   $\tau_{max}=6.01$   
 Tensioni:  $\sigma_N=-464.42$   $\sigma_M=-192.49$   $\tau=2.65$   $\sigma_{ID,max}=656.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4831.69$   $T_x=-39.44$   $M_y=-104.70$   $T_y=-2.11$   $M_x=-7.97$   
 $V,Ed=-2.11$   $V_c,Rd,Red=5856.57$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-39.44$   $V_c,Rd,Red=11713.10$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3808.22$   $T_x=-23.21$   $M_y=-62.67$   $M_z=-1.14$   $M_x=-8.32$   
 Tensioni:  $\sigma_N=-276.76$   $\sigma_M=-151.39$   $\tau=16.01$   $\sigma_{max}=-428.15$   
 Tensioni:  $\sigma_N=-276.76$   $\sigma_M=-4.04$   $\tau=19.02$   $\tau_{max}=19.02$   
 Tensioni:  $\sigma_N=-276.76$   $\sigma_M=-151.39$   $\tau=16.01$   $\sigma_{ID,max}=429.05$

Asta n. 4354 (-13656 -13722) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6399.47$   $M_y, Ed = -76.40$   $M_z, Ed = -1.62$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55358300.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387700.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21 + 0.06 + 0.00 = 0.27$   
 Verifica ZZ:  $0.21 + 0.05 + 0.00 = 0.26$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l = 0.01$  - Classe 3  
 Sollecitazioni:  $N = -5912.75$   $T_z = -69.41$   $M_y = -93.15$   $T_y = -3.20$   $M_z = -1.01$   $M_x = -7.02$   
 Tensioni:  $\sigma_N = -429.71$   $\sigma_M = -222.58$   $\tau = 13.51$   $\sigma_{max} = -652.29$   
 Tensioni:  $\sigma_N = -429.71$   $\sigma_M = -3.11$   $\tau = 22.51$   $\tau_{max} = 22.51$   
 Tensioni:  $\sigma_N = -429.71$   $\sigma_M = -222.58$   $\tau = 13.51$   $\sigma_{ID, max} = 652.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -4202.18$   $T_z = -76.09$   $M_y = -93.41$   $T_y = -4.93$   $M_x = -27.85$   
 $V, Ed = -4.93$   $V_c, Rd, Red = 5681.12$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -76.09$   $V_c, Rd, Red = 11362.20$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -3847.74$   $T_z = -41.89$   $M_y = -59.99$   $T_y = -1.33$   $M_z = -1.14$   $M_x = -9.32$   
 Tensioni:  $\sigma_N = -279.63$   $\sigma_M = -145.07$   $\tau = 17.93$   $\sigma_{max} = -424.71$   
 Tensioni:  $\sigma_N = -279.63$   $\sigma_M = -3.50$   $\tau = 23.36$   $\tau_{max} = 23.36$   
 Tensioni:  $\sigma_N = -279.63$   $\sigma_M = -145.07$   $\tau = 17.93$   $\sigma_{ID, max} = 425.84$

Asta n. 4354 (-13722 -13788) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6415.97$   $M_y, Ed = -69.14$   $M_z, Ed = -1.99$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55358300.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387700.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21 + 0.06 + 0.00 = 0.27$   
 Verifica ZZ:  $0.21 + 0.04 + 0.00 = 0.26$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -5926.20$   $T_z = -102.24$   $M_y = -84.70$   $T_y = -3.58$   $M_z = -1.42$   $M_x = -10.44$   
 Tensioni:  $\sigma_N = -430.68$   $\sigma_M = -204.15$   $\tau = 20.09$   $\sigma_{max} = -634.84$   
 Tensioni:  $\sigma_N = -430.68$   $\sigma_M = -4.34$   $\tau = 33.34$   $\tau_{max} = 33.34$   
 Tensioni:  $\sigma_N = -430.68$   $\sigma_M = -204.15$   $\tau = 20.09$   $\sigma_{ID, max} = 635.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -4208.18$   $T_z = -109.00$   $M_y = -80.77$   $T_y = -6.75$   $M_x = -31.46$   
 $V, Ed = -6.75$   $V_c, Rd, Red = 5649.26$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -109.00$   $V_c, Rd, Red = 11298.50$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -3882.89$   $T_z = -59.92$   $M_y = -55.00$   $T_y = -2.31$   $M_z = -1.10$   $M_x = -10.20$   
 Tensioni:  $\sigma_N = -282.19$   $\sigma_M = -133.22$   $\tau = 19.62$   $\sigma_{max} = -415.40$   
 Tensioni:  $\sigma_N = -282.19$   $\sigma_M = -3.38$   $\tau = 27.39$   $\tau_{max} = 27.39$   
 Tensioni:  $\sigma_N = -282.19$   $\sigma_M = -133.22$   $\tau = 19.62$   $\sigma_{ID, max} = 416.79$

Asta n. 4354 (-13788 -13854) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6460.51$   $M_y, Ed = -58.65$   $M_z, Ed = -2.42$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55357700.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387500.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.21 + 0.05 + 0.00 = 0.26$

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Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-6460.51$   $T_z=-98.85$   $M_y=-58.65$   $T_y=12.61$   $M_z=-2.42$   $M_x=-8.89$   
Tensioni:  $\sigma_N=-469.51$   $\sigma_M=-146.45$   $\tau=17.11$   $\sigma_{max}=-615.97$   
Tensioni:  $\sigma_N=-469.51$   $\sigma_M=-7.42$   $\tau=29.92$   $\tau_{max}=29.92$   
Tensioni:  $\sigma_N=-469.51$   $\sigma_M=-146.45$   $\tau=17.11$   $\sigma_{ID,max}=616.68$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-4218.15$   $T_z=-130.65$   $M_y=-65.40$   $T_y=-1.25$   $M_z=-33.53$   
 $V,Ed=-1.25$   $Vc,Rd,Red=5630.97$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-130.65$   $Vc,Rd,Red=11261.90$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3923.90$   $T_z=-72.53$   $M_y=-48.06$   $T_y=5.83$   $M_z=-1.04$   $M_x=-10.73$   
Tensioni:  $\sigma_N=-285.17$   $\sigma_M=-116.68$   $\tau=20.65$   $\sigma_{max}=-401.84$   
Tensioni:  $\sigma_N=-285.17$   $\sigma_M=-3.19$   $\tau=30.06$   $\tau_{max}=30.06$   
Tensioni:  $\sigma_N=-285.17$   $\sigma_M=-116.68$   $\tau=20.65$   $\sigma_{ID,max}=403.43$

Asta n. 4354 (-13854 -13922) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6552.65$   $M_y,Ed=-46.45$   $M_z,Ed=9.30$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.21+0.04+0.01=0.26$   
Verifica ZZ:  $0.21+0.03+0.01=0.26$
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-6552.55$   $T_z=-110.59$   $M_y=-35.92$   $T_y=111.19$   $M_z=9.30$   $M_x=-9.09$   
Tensioni:  $\sigma_N=-476.20$   $\sigma_M=-117.36$   $\tau=17.49$   $\sigma_{max}=-593.56$   
Tensioni:  $\sigma_N=-476.20$   $\sigma_M=-78.83$   $\tau=43.97$   $\tau_{max}=43.97$   
Tensioni:  $\sigma_N=-476.20$   $\sigma_M=-117.36$   $\tau=17.49$   $\sigma_{ID,max}=594.34$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.01$   
Sollecitazioni:  $N=-6552.64$   $T_z=-105.29$   $M_y=-45.51$   $T_y=111.19$   $M_x=-9.09$   
 $V,Ed=111.19$   $Vc,Rd,Red=5846.69$   $V,Ed/Vc,Rd,Red=0.02$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-105.29$   $Vc,Rd,Red=11693.40$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-3986.02$   $T_z=-81.14$   $M_y=-33.37$   $T_y=66.37$   $M_z=6.82$   $M_x=-10.83$   
Tensioni:  $\sigma_N=-289.68$   $\sigma_M=-102.60$   $\tau=20.83$   $\sigma_{max}=-392.28$   
Tensioni:  $\sigma_N=-289.68$   $\sigma_M=-73.23$   $\tau=36.64$   $\tau_{max}=36.64$   
Tensioni:  $\sigma_N=-289.68$   $\sigma_M=-102.60$   $\tau=20.83$   $\sigma_{ID,max}=393.93$
- Asta n. 4354 (-13922 -13992) Tubo 60x120x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7241.69$   $M_y,Ed=-52.99$   $M_z,Ed=13.20$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.24+0.04+0.02=0.30$   
Verifica ZZ:  $0.24+0.03+0.02=0.29$
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-7241.69$   $T_z=83.73$   $M_y=-45.09$   $T_y=-133.90$   $M_z=13.20$   $M_x=13.61$   
Tensioni:  $\sigma_N=-526.29$   $\sigma_M=-152.73$   $\tau=26.18$   $\sigma_{max}=-679.02$   
Tensioni:  $\sigma_N=-526.29$   $\sigma_M=-98.95$   $\tau=58.06$   $\tau_{max}=58.06$   
Tensioni:  $\sigma_N=-526.29$   $\sigma_M=-152.73$   $\tau=26.18$   $\sigma_{ID,max}=680.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-7241.60$   $T_z=77.91$   $M_y=-52.99$   $T_y=-133.90$   $M_x=13.61$   
 $V,Ed=-133.90$   $V_c,Rd,Red=5806.82$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=77.91$   $V_c,Rd,Red=11613.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4405.09$   $T_z=53.82$   $M_y=-37.55$   $T_y=-59.51$   $M_z=6.64$   $M_x=15.37$   
 Tensioni:  $\sigma_N=-320.14$   $\sigma_M=-111.78$   $\tau=29.57$   $\sigma_{max}=-431.92$   
 Tensioni:  $\sigma_N=-320.14$   $\sigma_M=-82.40$   $\tau=43.74$   $\tau_{max}=43.74$   
 Tensioni:  $\sigma_N=-320.14$   $\sigma_M=-111.78$   $\tau=29.57$   $\sigma_{ID,max}=434.94$

Asta n. 4354 (-13992 -14057) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7051.32$   $M_y,Ed=-62.14$   $M_z,Ed=-1.77$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.05+0.00=0.28$   
 Verifica ZZ:  $0.23+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7051.23$   $T_z=72.85$   $M_y=-62.14$   $T_y=-22.10$   $M_z=-1.77$   $M_x=13.45$   
 Tensioni:  $\sigma_N=-512.44$   $\sigma_M=-152.37$   $\tau=25.88$   $\sigma_{max}=-664.82$   
 Tensioni:  $\sigma_N=-512.44$   $\sigma_M=-5.44$   $\tau=35.32$   $\tau_{max}=35.32$   
 Tensioni:  $\sigma_N=-512.44$   $\sigma_M=-152.37$   $\tau=25.88$   $\sigma_{ID,max}=666.33$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3195.90$   $T_z=96.83$   $M_y=-58.63$   $T_y=-4.44$   $M_x=1.85$   
 $V,Ed=-4.44$   $V_c,Rd,Red=5910.54$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=96.83$   $V_c,Rd,Red=11821.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4366.61$   $T_z=45.98$   $M_y=-46.78$   $T_y=-2.68$   $M_z=-1.18$   $M_x=15.36$   
 Tensioni:  $\sigma_N=-317.34$   $\sigma_M=-114.15$   $\tau=29.55$   $\sigma_{max}=-431.49$   
 Tensioni:  $\sigma_N=-317.34$   $\sigma_M=-3.62$   $\tau=35.51$   $\tau_{max}=35.51$   
 Tensioni:  $\sigma_N=-317.34$   $\sigma_M=-114.15$   $\tau=29.55$   $\sigma_{ID,max}=434.52$

Asta n. 4354 (-14057 -14127) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6951.64$   $M_y,Ed=-69.52$   $M_z,Ed=-1.49$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.06+0.00=0.28$   
 Verifica ZZ:  $0.23+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6951.55$   $T_z=56.22$   $M_y=-69.52$   $M_z=-1.49$   $M_x=12.01$   
 Tensioni:  $\sigma_N=-505.20$   $\sigma_M=-168.73$   $\tau=23.12$   $\sigma_{max}=-673.93$   
 Tensioni:  $\sigma_N=-505.20$   $\sigma_M=-5.29$   $\tau=30.41$   $\tau_{max}=30.41$   
 Tensioni:  $\sigma_N=-505.20$   $\sigma_M=-168.73$   $\tau=23.12$   $\sigma_{ID,max}=675.12$

- Verifica a taglio dir. Y [4.2.16] - CC 89 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3188.13$   $T_z=75.72$   $M_y=-69.85$   $T_y=1.16$   
 $V,Ed=1.16$   $V_c,Rd=5926.90$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=75.72$   $V_c,Rd=11853.80$   $V,Ed/V_c,Rd=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-4374.76$   $T_z=34.33$   $M_y=-50.70$   $T_y=4.41$   $M_z=-1.31$   $M_x=14.67$   
 Tensioni:  $\sigma_N=-317.93$   $\sigma_M=-123.85$   $\tau=28.22$   $\sigma_{max}=-441.78$   
 Tensioni:  $\sigma_N=-317.93$   $\sigma_M=-4.02$   $\tau=32.67$   $\tau_{max}=32.67$   
 Tensioni:  $\sigma_N=-317.93$   $\sigma_M=-123.85$   $\tau=28.22$   $\sigma_{TD,max}=444.48$

Asta n. 4354 (-14127 -14193) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-6905.25$   $M_y,Ed=-73.85$   $M_z,Ed=-1.45$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22+0.06+0.00=0.29$   
 Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-6905.15$   $T_z=29.95$   $M_y=-73.85$   $T_y=2.22$   $M_z=-1.24$   $M_x=9.36$   
 Tensioni:  $\sigma_N=-501.83$   $\sigma_M=-178.01$   $\tau=18.01$   $\sigma_{max}=-679.83$   
 Tensioni:  $\sigma_N=-501.83$   $\sigma_M=-3.79$   $\tau=21.89$   $\tau_{max}=21.89$   
 Tensioni:  $\sigma_N=-501.83$   $\sigma_M=-178.01$   $\tau=18.01$   $\sigma_{TD,max}=680.55$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU  $X1=0.00$

Sollecitazioni:  $N=-3193.04$   $T_z=43.67$   $M_y=-78.40$   $M_x=-3.77$   
 $V,Ed=43.67$   $V_c,Rd,Red=11787.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-4402.55$   $T_z=19.46$   $M_y=-52.86$   $T_y=3.52$   $M_z=-1.38$   $M_x=13.45$   
 Tensioni:  $\sigma_N=-319.95$   $\sigma_M=-129.17$   $\tau=25.88$   $\sigma_{max}=-449.13$   
 Tensioni:  $\sigma_N=-319.95$   $\sigma_M=-4.23$   $\tau=28.40$   $\tau_{max}=28.40$   
 Tensioni:  $\sigma_N=-319.95$   $\sigma_M=-129.17$   $\tau=25.88$   $\sigma_{TD,max}=451.36$

Asta n. 4354 (-14193 -14259) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-6879.12$   $M_y,Ed=-74.57$   $M_z,Ed=-1.22$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22+0.06+0.00=0.29$   
 Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.07$  - Classe 3

Sollecitazioni:  $N=-6879.05$   $T_z=1.13$   $M_y=-74.56$   $M_z=-1.16$   $M_x=6.00$   
 Tensioni:  $\sigma_N=-499.93$   $\sigma_M=-179.39$   $\tau=11.54$   $\sigma_{max}=-679.32$   
 Tensioni:  $\sigma_N=-499.93$   $\sigma_M=-4.10$   $\tau=11.69$   $\tau_{max}=11.69$   
 Tensioni:  $\sigma_N=-499.93$   $\sigma_M=-179.39$   $\tau=11.54$   $\sigma_{TD,max}=679.62$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $X1=0.00$

Sollecitazioni:  $N=-4929.20$   $M_y=-79.93$   $T_y=5.00$   $M_x=-1.29$   
 $V,Ed=5.00$   $V_c,Rd,Red=5915.49$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.01$  - Classe 3

Sollecitazioni:  $N=-4432.91$   $T_z=9.50$   $M_y=-53.08$   $T_y=1.74$   $M_z=-1.32$   $M_x=11.95$   
 Tensioni:  $\sigma_N=-322.16$   $\sigma_M=-129.46$   $\tau=22.99$   $\sigma_{max}=-451.62$   
 Tensioni:  $\sigma_N=-322.16$   $\sigma_M=-4.05$   $\tau=24.23$   $\tau_{max}=24.23$   
 Tensioni:  $\sigma_N=-322.16$   $\sigma_M=-129.46$   $\tau=22.99$   $\sigma_{TD,max}=453.38$

Asta n. 4354 (-14259 -14325) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-6864.75$   $M_y,Ed=-74.32$   $M_z,Ed=-1.30$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$



Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.06+0.00=0.28  
 Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6864.75 T<sub>z</sub>=-27.67 M<sub>y</sub>=-74.32 T<sub>y</sub>=-1.48 M<sub>z</sub>=-1.16 M<sub>x</sub>=2.31  
 Tensioni: σ<sub>N</sub>=-498.89 σ<sub>M</sub>=-178.84 τ=4.45 σ<sub>max</sub>=-677.73  
 Tensioni: σ<sub>N</sub>=-498.89 σ<sub>M</sub>=3.55 τ=8.03 τ<sub>max</sub>=8.03  
 Tensioni: σ<sub>N</sub>=-498.89 σ<sub>M</sub>=-178.84 τ=4.45 σ<sub>ID,max</sub>=677.78

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-5429.77 T<sub>z</sub>=-44.62 M<sub>y</sub>=-90.20 T<sub>y</sub>=-2.94 M<sub>z</sub>=-3.84  
 V,Ed=-2.94 Vc,Rd,Red=5893.05 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-44.62 Vc,Rd,Red=11786.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4462.04 T<sub>z</sub>=-23.72 M<sub>y</sub>=-52.61 M<sub>z</sub>=-1.34 M<sub>x</sub>=-11.15  
 Tensioni: σ<sub>N</sub>=-324.28 σ<sub>M</sub>=-128.44 τ=21.45 σ<sub>max</sub>=-452.71  
 Tensioni: σ<sub>N</sub>=-324.28 σ<sub>M</sub>=-4.73 τ=24.53 τ<sub>max</sub>=24.53  
 Tensioni: σ<sub>N</sub>=-324.28 σ<sub>M</sub>=-128.44 τ=21.45 σ<sub>ID,max</sub>=454.24

Asta n. 4354 (-14325 -14391) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6858.67 M<sub>y</sub>,Ed=-70.37 M<sub>z</sub>,Ed=-1.75  
 Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55358300.00 λ<sub>y</sub><sup>\*</sup>=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387700.00 λ<sub>z</sub><sup>\*</sup>=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.06+0.00=0.28  
 Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6858.67 T<sub>z</sub>=-58.13 M<sub>y</sub>=-70.37 T<sub>y</sub>=-3.90 M<sub>z</sub>=-1.37 M<sub>x</sub>=-1.06  
 Tensioni: σ<sub>N</sub>=-498.45 σ<sub>M</sub>=-170.27 τ=2.05 σ<sub>max</sub>=-668.72  
 Tensioni: σ<sub>N</sub>=-498.45 σ<sub>M</sub>=-4.19 τ=9.58 τ<sub>max</sub>=9.58  
 Tensioni: σ<sub>N</sub>=-498.45 σ<sub>M</sub>=-170.27 τ=2.05 σ<sub>ID,max</sub>=668.73

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-5435.65 T<sub>z</sub>=-84.15 M<sub>y</sub>=-80.84 T<sub>y</sub>=-5.65 M<sub>z</sub>=-8.50  
 V,Ed=-5.65 Vc,Rd,Red=5851.88 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-84.15 Vc,Rd,Red=11703.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4488.38 T<sub>z</sub>=-41.75 M<sub>y</sub>=-49.85 T<sub>y</sub>=-2.13 M<sub>z</sub>=-1.32 M<sub>x</sub>=-12.09  
 Tensioni: σ<sub>N</sub>=-326.19 σ<sub>M</sub>=-121.89 τ=23.27 σ<sub>max</sub>=-448.08  
 Tensioni: σ<sub>N</sub>=-326.19 σ<sub>M</sub>=-4.05 τ=28.68 τ<sub>max</sub>=28.68  
 Tensioni: σ<sub>N</sub>=-326.19 σ<sub>M</sub>=-121.89 τ=23.27 σ<sub>ID,max</sub>=449.89

Asta n. 4354 (-14391 -14457) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6861.69 M<sub>y</sub>,Ed=-62.78 M<sub>z</sub>,Ed=-2.19  
 Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55358200.00 λ<sub>y</sub><sup>\*</sup>=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387700.00 λ<sub>z</sub><sup>\*</sup>=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.05+0.00=0.28  
 Verifica ZZ: 0.22+0.04+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6861.69 T<sub>z</sub>=-84.60 M<sub>y</sub>=-62.78 T<sub>y</sub>=-3.79 M<sub>z</sub>=-1.82 M<sub>x</sub>=-3.74  
 Tensioni: σ<sub>N</sub>=-498.67 σ<sub>M</sub>=-154.05 τ=7.20 σ<sub>max</sub>=-652.72  
 Tensioni: σ<sub>N</sub>=-498.67 σ<sub>M</sub>=-5.58 τ=18.16 τ<sub>max</sub>=18.16

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Tensioni:  $\sigma_N=-498.67$   $\sigma_M=-154.05$   $\tau=7.20$   $\sigma_{ID,max}=652.84$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4644.04$   $T_z=-113.33$   $M_y=-65.66$   $T_y=-8.06$   $M_x=-23.80$   
 $V,Ed=-8.06$   $V_c,Rd,Red=5716.83$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-113.33$   $V_c,Rd,Red=11433.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4511.96$   $T_z=-57.62$   $M_y=-44.93$   $T_y=-3.36$   $M_z=-1.26$   $M_x=-12.91$   
Tensioni:  $\sigma_N=-327.90$   $\sigma_M=-110.08$   $\tau=24.84$   $\sigma_{max}=-437.99$   
Tensioni:  $\sigma_N=-327.90$   $\sigma_M=-3.86$   $\tau=32.31$   $\tau_{max}=32.31$   
Tensioni:  $\sigma_N=-327.90$   $\sigma_M=-110.08$   $\tau=24.84$   $\sigma_{ID,max}=440.09$

Asta n. 4354 (-14457 -14523) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6896.47$   $M_y,Ed=-52.12$   $M_z,Ed=-2.57$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.04+0.00=0.27$   
Verifica ZZ:  $0.22+0.03+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-6896.47$   $T_z=-102.03$   $M_y=-52.12$   $T_y=12.03$   $M_z=-2.57$   $M_x=-5.19$   
Tensioni:  $\sigma_N=-501.20$   $\sigma_M=-131.64$   $\tau=9.99$   $\sigma_{max}=-632.84$   
Tensioni:  $\sigma_N=-501.20$   $\sigma_M=-7.90$   $\tau=23.22$   $\tau_{max}=23.22$   
Tensioni:  $\sigma_N=-501.20$   $\sigma_M=-131.64$   $\tau=9.99$   $\sigma_{ID,max}=633.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4644.04$   $T_z=-135.55$   $M_y=-49.82$   $T_y=-2.09$   $M_x=-25.87$   
 $V,Ed=-2.09$   $V_c,Rd,Red=5698.58$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-135.55$   $V_c,Rd,Red=11397.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4545.16$   $T_z=-69.57$   $M_y=-38.30$   $T_y=5.49$   $M_z=-1.18$   $M_x=-13.40$   
Tensioni:  $\sigma_N=-330.32$   $\sigma_M=-94.22$   $\tau=25.78$   $\sigma_{max}=-424.54$   
Tensioni:  $\sigma_N=-330.32$   $\sigma_M=-3.61$   $\tau=34.80$   $\tau_{max}=34.80$   
Tensioni:  $\sigma_N=-330.32$   $\sigma_M=-94.22$   $\tau=25.78$   $\sigma_{ID,max}=426.88$

Asta n. 4354 (-14523 -14593) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6986.82$   $M_y,Ed=-39.62$   $M_z,Ed=9.93$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.23+0.03+0.01=0.27$   
Verifica ZZ:  $0.23+0.03+0.01=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6986.73$   $T_z=-111.21$   $M_y=-29.03$   $T_y=119.25$   $M_z=9.93$   $M_x=-5.34$   
Tensioni:  $\sigma_N=-507.76$   $\sigma_M=-103.39$   $\tau=10.27$   $\sigma_{max}=-611.14$   
Tensioni:  $\sigma_N=-507.76$   $\sigma_M=-63.70$   $\tau=38.67$   $\tau_{max}=38.67$   
Tensioni:  $\sigma_N=-507.76$   $\sigma_M=-103.39$   $\tau=10.27$   $\sigma_{ID,max}=611.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.01$   
Sollecitazioni:  $N=-6986.82$   $T_z=-105.92$   $M_y=-38.68$   $T_y=119.25$   $M_x=-5.34$   
 $V,Ed=119.25$   $V_c,Rd,Red=5879.81$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-105.92$   $V_c,Rd,Red=11759.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4607.53$   $T_z=-76.87$   $M_y=-24.55$   $T_y=77.00$   $M_z=7.90$   $M_x=-13.46$   
 Tensioni:  $\sigma_N=-334.85$   $\sigma_M=-85.70$   $\tau=25.90$   $\sigma_{max}=-420.55$   
 Tensioni:  $\sigma_N=-334.85$   $\sigma_M=-53.87$   $\tau=44.24$   $\tau_{max}=44.24$   
 Tensioni:  $\sigma_N=-334.85$   $\sigma_M=-85.70$   $\tau=25.90$   $\sigma_{ID,max}=422.93$

Asta n. 4354 (-14593 -14661) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7649.04$   $M_y,Ed=-48.51$   $M_z,Ed=14.51$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.25+0.04+0.02=0.31$   
 Verifica ZZ:  $0.25+0.03+0.02=0.30$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7649.04$   $T_z=102.95$   $M_y=-38.73$   $T_y=-147.75$   $M_z=14.51$   $M_x=20.24$   
 Tensioni:  $\sigma_N=-555.89$   $\sigma_M=-142.40$   $\tau=38.94$   $\sigma_{max}=-698.29$   
 Tensioni:  $\sigma_N=-555.89$   $\sigma_M=-84.99$   $\tau=74.12$   $\tau_{max}=74.12$   
 Tensioni:  $\sigma_N=-555.89$   $\sigma_M=-142.40$   $\tau=38.94$   $\sigma_{ID,max}=701.54$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-7648.95$   $T_z=97.13$   $M_y=-48.51$   $T_y=-147.75$   $M_x=20.24$   
 $V,Ed=-147.75$   $V_c,Rd,Red=5748.30$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=97.13$   $V_c,Rd,Red=11496.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5016.78$   $T_z=61.07$   $M_y=-28.75$   $T_y=-76.77$   $M_z=8.52$   $M_x=19.59$   
 Tensioni:  $\sigma_N=-364.59$   $\sigma_M=-97.73$   $\tau=37.69$   $\sigma_{max}=-462.32$   
 Tensioni:  $\sigma_N=-364.59$   $\sigma_M=-63.08$   $\tau=55.97$   $\tau_{max}=55.97$   
 Tensioni:  $\sigma_N=-364.59$   $\sigma_M=-93.71$   $\tau=52.91$   $\sigma_{ID,max}=467.37$

Asta n. 4354 (-14661 -14727) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7439.13$   $M_y,Ed=-60.17$   $M_z,Ed=-1.96$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.05+0.00=0.29$   
 Verifica ZZ:  $0.24+0.04+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7439.04$   $T_z=94.09$   $M_y=-60.17$   $T_y=-24.46$   $M_z=-1.96$   $M_x=20.14$   
 Tensioni:  $\sigma_N=-540.63$   $\sigma_M=-148.42$   $\tau=38.75$   $\sigma_{max}=-689.04$   
 Tensioni:  $\sigma_N=-540.63$   $\sigma_M=-6.02$   $\tau=50.95$   $\tau_{max}=50.95$   
 Tensioni:  $\sigma_N=-540.63$   $\sigma_M=-148.42$   $\tau=38.75$   $\sigma_{ID,max}=692.31$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-4311.10$   $T_z=124.17$   $M_y=-50.33$   $T_y=-8.06$   $M_x=18.59$   
 $V,Ed=-8.06$   $V_c,Rd,Red=5762.85$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=124.17$   $V_c,Rd,Red=11525.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4952.12$   $T_z=53.73$   $M_y=-38.34$   $T_y=-5.20$   $M_z=-1.30$   $M_x=19.62$   
 Tensioni:  $\sigma_N=-359.89$   $\sigma_M=-94.76$   $\tau=37.74$   $\sigma_{max}=-454.65$   
 Tensioni:  $\sigma_N=-359.89$   $\sigma_M=-4.00$   $\tau=44.71$   $\tau_{max}=44.71$   
 Tensioni:  $\sigma_N=-359.89$   $\sigma_M=-94.76$   $\tau=37.74$   $\sigma_{ID,max}=459.33$

Asta n. 4354 (-14727 -14793) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7326.00 My,Ed=-69.99 Mz,Ed=-1.63  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.06+0.00=0.30  
 Verifica ZZ: 0.24+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7325.90 T<sub>z</sub>=76.30 M<sub>y</sub>=-69.99 T<sub>y</sub>=-1.10 M<sub>z</sub>=-1.63 M<sub>x</sub>=18.72  
 Tensioni:  $\sigma_N=-532.41$   $\sigma_M=-170.32$   $\tau=36.02$   $\sigma_{max}=-702.73$   
 Tensioni:  $\sigma_N=-532.41$   $\sigma_M=-4.99$   $\tau=45.91$   $\tau_{max}=45.91$   
 Tensioni:  $\sigma_N=-532.41$   $\sigma_M=-170.32$   $\tau=36.02$   $\sigma_{TD,max}=705.49$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
 Sollecitazioni: N=-5887.64 T<sub>z</sub>=101.53 M<sub>y</sub>=-73.51 T<sub>y</sub>=6.23 M<sub>z</sub>=16.64  
 V,Ed=6.23 Vc,Rd,Red=5780.06 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=101.53 Vc,Rd,Red=11560.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4941.45 T<sub>z</sub>=43.51 M<sub>y</sub>=-42.81 T<sub>y</sub>=3.99 M<sub>z</sub>=-1.43 M<sub>x</sub>=19.04  
 Tensioni:  $\sigma_N=-359.12$   $\sigma_M=-105.72$   $\tau=36.64$   $\sigma_{max}=-464.83$   
 Tensioni:  $\sigma_N=-359.12$   $\sigma_M=-4.39$   $\tau=42.28$   $\tau_{max}=42.28$   
 Tensioni:  $\sigma_N=-359.12$   $\sigma_M=-105.72$   $\tau=36.64$   $\sigma_{TD,max}=469.14$

Asta n. 4354 (-14793 -14859) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7269.57 My,Ed=-76.73 Mz,Ed=-1.54  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.06+0.00=0.30  
 Verifica ZZ: 0.24+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7269.47 T<sub>z</sub>=49.74 M<sub>y</sub>=-76.73 T<sub>y</sub>=2.22 M<sub>z</sub>=-1.32 M<sub>x</sub>=16.10  
 Tensioni:  $\sigma_N=-528.30$   $\sigma_M=-185.07$   $\tau=30.98$   $\sigma_{max}=-713.38$   
 Tensioni:  $\sigma_N=-528.30$   $\sigma_M=-4.06$   $\tau=37.42$   $\tau_{max}=37.42$   
 Tensioni:  $\sigma_N=-528.30$   $\sigma_M=-185.07$   $\tau=30.98$   $\sigma_{TD,max}=715.39$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-4285.92 T<sub>z</sub>=70.01 M<sub>y</sub>=-76.68 M<sub>z</sub>=12.92  
 V,Ed=70.01 Vc,Rd,Red=11625.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4954.42 T<sub>z</sub>=30.24 M<sub>y</sub>=-45.77 T<sub>y</sub>=3.46 M<sub>z</sub>=-1.50 M<sub>x</sub>=18.01  
 Tensioni:  $\sigma_N=-360.06$   $\sigma_M=-112.93$   $\tau=34.66$   $\sigma_{max}=-472.99$   
 Tensioni:  $\sigma_N=-360.06$   $\sigma_M=-4.61$   $\tau=38.59$   $\tau_{max}=38.59$   
 Tensioni:  $\sigma_N=-360.06$   $\sigma_M=-112.93$   $\tau=34.66$   $\sigma_{TD,max}=476.78$

Asta n. 4354 (-14859 -14925) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7234.98 My,Ed=-79.99 Mz,Ed=-1.26  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.06+0.00=0.30  
 Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7234.89$   $T_z=20.91$   $M_y=-79.99$   $M_z=-1.23$   $M_x=12.77$   
 Tensioni:  $\sigma_N=-525.79$   $\sigma_M=-192.40$   $\tau=24.57$   $\sigma_{max}=-718.19$   
 Tensioni:  $\sigma_N=-525.79$   $\sigma_M=-4.35$   $\tau=27.28$   $\tau_{max}=27.28$   
 Tensioni:  $\sigma_N=-525.79$   $\sigma_M=-192.40$   $\tau=24.57$   $\sigma_{ID,max}=719.45$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-6848.34$   $T_z=31.99$   $M_y=-89.95$   $M_x=12.28$   
 $V,Ed=31.99$   $V_c,Rd,Red=11637.00$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4971.86$   $T_z=17.23$   $M_y=-46.92$   $T_y=1.43$   $M_z=-1.53$   $M_x=16.74$   
 Tensioni:  $\sigma_N=-361.33$   $\sigma_M=-115.73$   $\tau=32.21$   $\sigma_{max}=-477.06$   
 Tensioni:  $\sigma_N=-361.33$   $\sigma_M=-4.69$   $\tau=34.45$   $\tau_{max}=34.45$   
 Tensioni:  $\sigma_N=-361.33$   $\sigma_M=-115.73$   $\tau=32.21$   $\sigma_{ID,max}=480.31$

Asta n. 4354 (-14925 -14991) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7214.15$   $M_y,Ed=-80.17$   $M_z,Ed=-1.39$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.06+0.00=0.30$   
 Verifica ZZ:  $0.23+0.05+0.00=0.29$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.06$  - Classe 3  
 Sollecitazioni:  $N=-6837.23$   $T_z=-12.66$   $M_y=-92.34$   $T_y=-1.33$   $M_z=-1.00$   $M_x=7.63$   
 Tensioni:  $\sigma_N=-496.89$   $\sigma_M=-220.64$   $\tau=14.67$   $\sigma_{max}=-717.53$   
 Tensioni:  $\sigma_N=-496.89$   $\sigma_M=3.07$   $\tau=16.32$   $\tau_{max}=16.32$   
 Tensioni:  $\sigma_N=-496.89$   $\sigma_M=-220.64$   $\tau=14.67$   $\sigma_{ID,max}=717.99$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4997.57$   $T_z=-16.87$   $M_y=-89.82$   $T_y=-2.95$   $M_x=-5.88$   
 $V,Ed=-2.95$   $V_c,Rd,Red=5874.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-16.87$   $V_c,Rd,Red=11750.00$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4989.89$   $T_z=-13.14$   $M_y=-46.95$   $M_z=-1.48$   $M_x=15.43$   
 Tensioni:  $\sigma_N=-362.64$   $\sigma_M=-115.64$   $\tau=29.69$   $\sigma_{max}=-478.28$   
 Tensioni:  $\sigma_N=-362.64$   $\sigma_M=4.55$   $\tau=31.39$   $\tau_{max}=31.39$   
 Tensioni:  $\sigma_N=-362.64$   $\sigma_M=-115.64$   $\tau=29.69$   $\sigma_{ID,max}=481.04$

Asta n. 4354 (-14991 -15057) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7203.89$   $M_y,Ed=-78.64$   $M_z,Ed=-1.84$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.06+0.00=0.30$   
 Verifica ZZ:  $0.23+0.05+0.00=0.29$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6831.46$   $T_z=-45.67$   $M_y=-91.14$   $T_y=-4.17$   $M_z=-1.10$   $M_x=3.32$   
 Tensioni:  $\sigma_N=-496.47$   $\sigma_M=-218.18$   $\tau=6.39$   $\sigma_{max}=-714.65$   
 Tensioni:  $\sigma_N=-496.47$   $\sigma_M=3.38$   $\tau=12.31$   $\tau_{max}=12.31$   
 Tensioni:  $\sigma_N=-496.47$   $\sigma_M=-218.18$   $\tau=6.39$   $\sigma_{ID,max}=714.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4995.28$   $T_z=-55.41$   $M_y=-83.75$   $T_y=-5.79$   $M_x=-10.51$   
 $V,Ed=-5.79$   $V_c,Rd,Red=5834.15$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-55.41 Vc,Rd,Red=11668.30 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5006.89 T<sub>z</sub>=-27.86 M<sub>y</sub>=-45.71 T<sub>y</sub>=-2.54 M<sub>z</sub>=-1.45 M<sub>x</sub>=14.29  
Tensioni:  $\sigma_N$ =-363.87  $\sigma_M$ =-112.61  $\tau$ =27.49  $\sigma_{max}$ =-476.48  
Tensioni:  $\sigma_N$ =-363.87  $\sigma_M$ =4.45  $\tau$ =31.10  $\tau_{max}$ =31.10  
Tensioni:  $\sigma_N$ =-363.87  $\sigma_M$ =-112.61  $\tau$ =27.49  $\sigma_{ID,max}$ =478.85

Asta n. 4354 (-15057 -15123) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7206.99 M<sub>y</sub>,Ed=-73.59 M<sub>z</sub>,Ed=-2.28  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.23+0.06+0.00=0.30  
Verifica ZZ: 0.23+0.05+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7206.99 T<sub>z</sub>=-63.19 M<sub>y</sub>=-73.59 T<sub>y</sub>=-3.54 M<sub>z</sub>=-1.94 M<sub>x</sub>=3.17  
Tensioni:  $\sigma_N$ =-523.76  $\sigma_M$ =-179.86  $\tau$ =6.10  $\sigma_{max}$ =-703.62  
Tensioni:  $\sigma_N$ =-523.76  $\sigma_M$ =5.94  $\tau$ =14.29  $\tau_{max}$ =14.29  
Tensioni:  $\sigma_N$ =-523.76  $\sigma_M$ =-179.86  $\tau$ =6.10  $\sigma_{ID,max}$ =703.70

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-4988.99 T<sub>z</sub>=-87.66 M<sub>y</sub>=-73.67 T<sub>y</sub>=-7.84 M<sub>z</sub>=-14.08  
V,Ed=-7.84 Vc,Rd,Red=5802.62 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-87.66 Vc,Rd,Red=11605.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5024.09 T<sub>z</sub>=-41.95 M<sub>y</sub>=-42.71 T<sub>y</sub>=-3.53 M<sub>z</sub>=-1.37 M<sub>x</sub>=-14.59  
Tensioni:  $\sigma_N$ =-365.12  $\sigma_M$ =-105.27  $\tau$ =28.07  $\sigma_{max}$ =-470.39  
Tensioni:  $\sigma_N$ =-365.12  $\sigma_M$ =-4.21  $\tau$ =33.51  $\tau_{max}$ =33.51  
Tensioni:  $\sigma_N$ =-365.12  $\sigma_M$ =-105.27  $\tau$ =28.07  $\sigma_{ID,max}$ =472.89

Asta n. 4354 (-15123 -15191) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7244.67 M<sub>y</sub>,Ed=-65.41 M<sub>z</sub>,Ed=-2.70  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357700.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387500.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.05+0.00=0.29  
Verifica ZZ: 0.24+0.04+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7244.67 T<sub>z</sub>=-79.91 M<sub>y</sub>=-65.41 T<sub>y</sub>=12.93 M<sub>z</sub>=-2.70 M<sub>x</sub>=1.75  
Tensioni:  $\sigma_N$ =-526.50  $\sigma_M$ =-163.34  $\tau$ =3.37  $\sigma_{max}$ =-689.85  
Tensioni:  $\sigma_N$ =-526.50  $\sigma_M$ =8.28  $\tau$ =13.73  $\tau_{max}$ =13.73  
Tensioni:  $\sigma_N$ =-526.50  $\sigma_M$ =-163.34  $\tau$ =3.37  $\sigma_{ID,max}$ =689.87

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-4991.20 T<sub>z</sub>=-109.48 M<sub>y</sub>=-60.86 T<sub>y</sub>=-1.51 M<sub>z</sub>=-16.12  
V,Ed=-1.51 Vc,Rd,Red=5784.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-109.48 Vc,Rd,Red=11569.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5054.35 T<sub>z</sub>=-52.09 M<sub>y</sub>=-38.29 T<sub>y</sub>=6.06 M<sub>z</sub>=-1.26 M<sub>x</sub>=-15.13  
Tensioni:  $\sigma_N$ =-367.32  $\sigma_M$ =-94.47  $\tau$ =29.12  $\sigma_{max}$ =-461.79  
Tensioni:  $\sigma_N$ =-367.32  $\sigma_M$ =-3.86  $\tau$ =35.87  $\tau_{max}$ =35.87  
Tensioni:  $\sigma_N$ =-367.32  $\sigma_M$ =-94.47  $\tau$ =29.12  $\sigma_{ID,max}$ =464.53

Asta n. 4354 (-15191 -15258) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7343.53 My,Ed=-55.49 Mz,Ed=10.62  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY: 0.24+0.04+0.02=0.30  
 Verifica ZZ: 0.24+0.04+0.02=0.29
  
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7343.44 T<sub>2</sub>=-90.33 M<sub>y</sub>=-46.94 T<sub>y</sub>=127.20 M<sub>z</sub>=10.62 M<sub>x</sub>=1.66  
 Tensioni:  $\sigma_N=-533.68$   $\sigma_M=-147.96$   $\tau=3.19$   $\sigma_{max}=-681.64$   
 Tensioni:  $\sigma_N=-533.68$   $\sigma_M=103.01$   $\tau=33.48$   $\tau_{max}=33.48$   
 Tensioni:  $\sigma_N=-533.68$   $\sigma_M=-147.96$   $\tau=3.19$   $\sigma_{ID,max}=681.66$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
 Sollecitazioni: N=-7343.52 T<sub>2</sub>=-85.04 M<sub>y</sub>=-54.74 T<sub>y</sub>=127.20 M<sub>x</sub>=1.66  
 $V,Ed=127.20$  Vc,Rd,Red=5912.28 V,Ed/Vc,Rd,Red=0.02
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-85.04$  Vc,Rd,Red=11824.60 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5120.32 T<sub>2</sub>=-59.83 M<sub>y</sub>=-29.09 T<sub>y</sub>=86.61 M<sub>z</sub>=8.89 M<sub>x</sub>=-15.17  
 Tensioni:  $\sigma_N=-372.12$   $\sigma_M=-99.88$   $\tau=29.19$   $\sigma_{max}=-471.99$   
 Tensioni:  $\sigma_N=-372.12$   $\sigma_M=-63.84$   $\tau=49.81$   $\tau_{max}=49.81$   
 Tensioni:  $\sigma_N=-372.12$   $\sigma_M=-99.88$   $\tau=29.19$   $\sigma_{ID,max}=474.69$

Asta n. 4354 (-15258 -15324) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8014.12 My,Ed=-65.37 Mz,Ed=15.03  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY: 0.26+0.05+0.02=0.34  
 Verifica ZZ: 0.26+0.04+0.02=0.33
  
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-8014.12 T<sub>2</sub>=90.12 M<sub>y</sub>=-56.84 T<sub>y</sub>=-154.09 M<sub>z</sub>=15.03 M<sub>x</sub>=30.00  
 Tensioni:  $\sigma_N=-582.42$   $\sigma_M=-186.82$   $\tau=57.72$   $\sigma_{max}=-769.24$   
 Tensioni:  $\sigma_N=-582.42$   $\sigma_M=-124.74$   $\tau=94.41$   $\tau_{max}=94.41$   
 Tensioni:  $\sigma_N=-582.42$   $\sigma_M=-179.73$   $\tau=88.26$   $\sigma_{ID,max}=777.33$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
 Sollecitazioni: N=-8014.02 T<sub>2</sub>=84.30 M<sub>y</sub>=-65.37 T<sub>y</sub>=-154.09 M<sub>x</sub>=30.00  
 $V,Ed=-154.09$  Vc,Rd,Red=5662.15 V,Ed/Vc,Rd,Red=0.03
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=84.30$  Vc,Rd,Red=11324.30 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5527.87 T<sub>2</sub>=68.24 M<sub>y</sub>=-33.05 T<sub>y</sub>=-90.56 M<sub>z</sub>=10.02 M<sub>x</sub>=23.94  
 Tensioni:  $\sigma_N=-401.74$   $\sigma_M=-113.18$   $\tau=46.06$   $\sigma_{max}=-514.91$   
 Tensioni:  $\sigma_N=-401.74$   $\sigma_M=-72.52$   $\tau=67.62$   $\tau_{max}=67.62$   
 Tensioni:  $\sigma_N=-401.74$   $\sigma_M=-108.45$   $\tau=64.01$   $\sigma_{ID,max}=522.09$

Asta n. 4354 (-15324 -15390) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7806.01 My,Ed=-75.66 Mz,Ed=-2.06  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

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Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY:  $0.25+0.06+0.00=0.32$   
Verifica ZZ:  $0.25+0.05+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-7805.92$   $T_x=82.07$   $M_y=-75.66$   $T_y=-24.45$   $M_z=-2.06$   $M_x=29.96$   
Tensioni:  $\sigma_N=-567.29$   $\sigma_M=-185.19$   $\tau=57.64$   $\sigma_{max}=-752.48$   
Tensioni:  $\sigma_N=-567.29$   $\sigma_M=-6.33$   $\tau=68.28$   $\tau_{max}=68.28$   
Tensioni:  $\sigma_N=-567.29$   $\sigma_M=-184.22$   $\tau=62.49$   $\sigma_{ID,max}=759.26$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-4679.59$   $T_x=121.66$   $M_y=-69.53$   $T_y=-7.05$   $M_x=26.37$   
 $V,Ed=-7.05$   $Vc,Rd,Red=5694.19$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=121.66$   $Vc,Rd,Red=11388.40$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-5444.30$   $T_x=60.91$   $M_y=-41.28$   $T_y=-7.64$   $M_z=-1.35$   $M_x=24.01$   
Tensioni:  $\sigma_N=-395.66$   $\sigma_M=-101.82$   $\tau=46.20$   $\sigma_{max}=-497.48$   
Tensioni:  $\sigma_N=-395.66$   $\sigma_M=-4.13$   $\tau=54.09$   $\tau_{max}=54.09$   
Tensioni:  $\sigma_N=-395.66$   $\sigma_M=-101.82$   $\tau=46.20$   $\sigma_{ID,max}=503.88$

Asta n. 4354 (-15390 -15456) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7701.71$   $M_y,Ed=-84.03$   $M_z,Ed=-1.71$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY:  $0.25+0.07+0.00=0.32$   
Verifica ZZ:  $0.25+0.05+0.00=0.31$
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-7351.22$   $T_x=84.74$   $M_y=-98.10$   $T_y=1.60$   $M_z=-1.35$   $M_x=30.14$   
Tensioni:  $\sigma_N=-534.25$   $\sigma_M=-235.43$   $\tau=58.00$   $\sigma_{max}=-769.67$   
Tensioni:  $\sigma_N=-534.25$   $\sigma_M=-4.78$   $\tau=68.99$   $\tau_{max}=68.99$   
Tensioni:  $\sigma_N=-534.25$   $\sigma_M=-235.43$   $\tau=58.00$   $\sigma_{ID,max}=776.20$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-6397.20$   $T_x=96.76$   $M_y=-92.19$   $T_y=6.67$   $M_x=26.92$   
 $V,Ed=6.67$   $Vc,Rd,Red=5689.31$   $V,Ed/Vc,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=96.76$   $Vc,Rd,Red=11378.60$   $V,Ed/Vc,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-5421.77$   $T_x=50.26$   $M_y=-45.44$   $T_y=3.54$   $M_z=-1.46$   $M_x=23.59$   
Tensioni:  $\sigma_N=-394.02$   $\sigma_M=-112.01$   $\tau=45.39$   $\sigma_{max}=-506.04$   
Tensioni:  $\sigma_N=-394.02$   $\sigma_M=-4.49$   $\tau=51.90$   $\tau_{max}=51.90$   
Tensioni:  $\sigma_N=-394.02$   $\sigma_M=-112.01$   $\tau=45.39$   $\sigma_{ID,max}=512.11$
- Asta n. 4354 (-15456 -15522) Tubo 60x120x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7333.92$   $M_y,Ed=-105.53$   $M_z,Ed=-1.34$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY:  $0.24+0.08+0.00=0.33$   
Verifica ZZ:  $0.24+0.07+0.00=0.31$
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-7333.83$   $T_x=54.42$   $M_y=-105.53$   $T_y=3.27$   $M_z=-1.02$   $M_x=26.88$   
Tensioni:  $\sigma_N=-532.98$   $\sigma_M=-251.73$   $\tau=51.71$   $\sigma_{max}=-784.72$   
Tensioni:  $\sigma_N=-532.98$   $\sigma_M=-3.13$   $\tau=58.77$   $\tau_{max}=58.77$



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Tensioni:  $\sigma_N=-532.98$   $\sigma_M=-251.73$   $\tau=51.71$   $\sigma_{ID,max}=789.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-4690.67$   $T_z=68.09$   $M_y=-95.28$   $T_y=1.05$   $M_x=20.82$   
 $V,Ed=1.05$   $Vc,Rd,Red=5743.17$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=68.09$   $Vc,Rd,Red=11486.30$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5427.16$   $T_z=35.86$   $M_y=-48.47$   $T_y=3.24$   $M_z=-1.54$   $M_x=22.83$   
 Tensioni:  $\sigma_N=-394.42$   $\sigma_M=-119.40$   $\tau=43.93$   $\sigma_{max}=-513.82$   
 Tensioni:  $\sigma_N=-394.42$   $\sigma_M=-4.72$   $\tau=48.58$   $\tau_{max}=48.58$   
 Tensioni:  $\sigma_N=-394.42$   $\sigma_M=-119.40$   $\tau=43.93$   $\sigma_{ID,max}=519.42$

Asta n. 4354 (-15522 -15588) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7338.44$   $M_y,Ed=-108.38$   $M_z,Ed=-1.06$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.09+0.00=0.33$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1=0.04$  - Classe 3  
 Sollecitazioni:  $N=-7338.41$   $T_z=19.62$   $M_y=-107.27$   $T_y=1.59$   $M_z=-1.00$   $M_x=22.60$   
 Tensioni:  $\sigma_N=-533.32$   $\sigma_M=-255.76$   $\tau=43.50$   $\sigma_{max}=-789.07$   
 Tensioni:  $\sigma_N=-533.32$   $\sigma_M=-3.07$   $\tau=46.04$   $\tau_{max}=46.04$   
 Tensioni:  $\sigma_N=-533.32$   $\sigma_M=-255.76$   $\tau=43.50$   $\sigma_{ID,max}=792.66$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-4717.45$   $T_z=28.36$   $M_y=-102.88$   $M_x=16.19$   
 $V,Ed=28.36$   $Vc,Rd,Red=11568.10$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5441.27$   $T_z=20.25$   $M_y=-49.77$   $T_y=1.41$   $M_z=-1.55$   $M_x=21.86$   
 Tensioni:  $\sigma_N=-395.44$   $\sigma_M=-122.50$   $\tau=42.06$   $\sigma_{max}=-517.94$   
 Tensioni:  $\sigma_N=-395.44$   $\sigma_M=-4.75$   $\tau=44.69$   $\tau_{max}=44.69$   
 Tensioni:  $\sigma_N=-395.44$   $\sigma_M=-122.50$   $\tau=42.06$   $\sigma_{ID,max}=523.04$

Asta n. 4354 (-15588 -15654) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7357.28$   $M_y,Ed=-108.46$   $M_z,Ed=-1.05$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.09+0.00=0.33$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1=0.03$  - Classe 3  
 Sollecitazioni:  $N=-7357.26$   $T_z=-18.95$   $M_y=-107.98$   $M_z=-1.00$   $M_x=17.99$   
 Tensioni:  $\sigma_N=-534.68$   $\sigma_M=-257.42$   $\tau=34.61$   $\sigma_{max}=-792.10$   
 Tensioni:  $\sigma_N=-534.68$   $\sigma_M=3.08$   $\tau=37.07$   $\tau_{max}=37.07$   
 Tensioni:  $\sigma_N=-534.68$   $\sigma_M=-257.42$   $\tau=34.61$   $\sigma_{ID,max}=794.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X1=0.10$   
 Sollecitazioni:  $N=-5408.56$   $T_z=-20.97$   $M_y=-101.41$   $T_y=-2.71$   $M_x=5.91$   
 $V,Ed=-2.71$   $Vc,Rd,Red=5874.78$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-20.97$   $Vc,Rd,Red=11749.60$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5459.59$   $T_z=-15.23$   $M_y=-49.82$   $M_z=-1.55$   $M_x=20.88$

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Tensioni:  $\sigma_N=-396.77$   $\sigma_M=-122.60$   $\tau=40.17$   $\sigma_{max}=-519.38$   
Tensioni:  $\sigma_N=-396.77$   $\sigma_M=4.75$   $\tau=42.14$   $\tau_{max}=42.14$   
Tensioni:  $\sigma_N=-396.77$   $\sigma_M=-122.60$   $\tau=40.17$   $\sigma_{ID,max}=524.02$

Asta n. 4354 (-15654 -15720) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7388.82 My,Ed=-105.64 Mz,Ed=-1.47  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.09+0.00=0.33  
Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7388.82 Tz=-55.99 My=-105.64 Ty=-2.70 Mz=-1.20 Mx=13.66  
Tensioni:  $\sigma_N=-536.98$   $\sigma_M=-252.63$   $\tau=26.29$   $\sigma_{max}=-789.61$   
Tensioni:  $\sigma_N=-536.98$   $\sigma_M=3.69$   $\tau=33.55$   $\tau_{max}=33.55$   
Tensioni:  $\sigma_N=-536.98$   $\sigma_M=-252.63$   $\tau=26.29$   $\sigma_{ID,max}=790.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-5431.33 Tz=-60.94 My=-94.76 Ty=-4.77 Mz=1.27  
V,Ed=-4.77 Vc,Rd,Red=5915.72 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-60.94 Vc,Rd,Red=11831.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5481.19 Tz=-29.17 My=-48.85 Ty=-2.47 Mz=-1.51 Mx=20.01  
Tensioni:  $\sigma_N=-398.34$   $\sigma_M=-120.18$   $\tau=38.50$   $\sigma_{max}=-518.53$   
Tensioni:  $\sigma_N=-398.34$   $\sigma_M=4.63$   $\tau=42.28$   $\tau_{max}=42.28$   
Tensioni:  $\sigma_N=-398.34$   $\sigma_M=-120.18$   $\tau=38.50$   $\sigma_{ID,max}=522.80$

Asta n. 4354 (-15720 -15786) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7436.17 My,Ed=-98.21 Mz,Ed=-1.82  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.08+0.00=0.32  
Verifica ZZ: 0.24+0.06+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7436.17 Tz=-87.56 My=-98.21 Ty=-1.49 Mz=-1.68 Mx=10.25  
Tensioni:  $\sigma_N=-540.42$   $\sigma_M=-236.84$   $\tau=19.72$   $\sigma_{max}=-777.26$   
Tensioni:  $\sigma_N=-540.42$   $\sigma_M=5.14$   $\tau=31.07$   $\tau_{max}=31.07$   
Tensioni:  $\sigma_N=-540.42$   $\sigma_M=-236.84$   $\tau=19.72$   $\sigma_{ID,max}=778.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-5456.83 Tz=-92.56 My=-84.17 Ty=-5.70 Mz=-2.35  
V,Ed=-5.70 Vc,Rd,Red=5906.16 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-92.56 Vc,Rd,Red=11812.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5508.63 Tz=-41.75 My=-45.98 Ty=-2.55 Mz=-1.40 Mx=19.35  
Tensioni:  $\sigma_N=-400.34$   $\sigma_M=-113.07$   $\tau=37.24$   $\sigma_{max}=-513.40$   
Tensioni:  $\sigma_N=-400.34$   $\sigma_M=4.30$   $\tau=42.65$   $\tau_{max}=42.65$   
Tensioni:  $\sigma_N=-400.34$   $\sigma_M=-113.07$   $\tau=37.24$   $\sigma_{ID,max}=517.44$

Asta n. 4354 (-15786 -15852) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7522.67 My,Ed=-87.10 Mz,Ed=-2.42

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Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.24+0.07+0.00=0.32

Verifica ZZ: 0.24+0.06+0.00=0.30

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7522.67 Tz=-110.46 My=-87.10 Ty=18.72 Mz=-2.42 Mx=8.25  
Tensioni:  $\sigma_N=-546.71$   $\sigma_M=-213.35$   $\tau=15.88$   $\sigma_{max}=-760.05$   
Tensioni:  $\sigma_N=-546.71$   $\sigma_M=7.42$   $\tau=30.20$   $\tau_{max}=30.20$   
Tensioni:  $\sigma_N=-546.71$   $\sigma_M=-213.35$   $\tau=15.88$   $\sigma_{ID,max}=760.55$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-7522.58 Tz=-116.28 My=-76.02 Ty=18.72 Mx=8.25  
V,Ed=18.72 Vc,Rd,Red=5854.06 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-116.28 Vc,Rd,Red=11708.10 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5557.50 Tz=-52.58 My=-41.59 Ty=10.00 Mz=-1.25 Mx=18.96  
Tensioni:  $\sigma_N=-403.89$   $\sigma_M=-102.21$   $\tau=36.48$   $\sigma_{max}=-506.10$   
Tensioni:  $\sigma_N=-403.89$   $\sigma_M=3.84$   $\tau=43.30$   $\tau_{max}=43.30$   
Tensioni:  $\sigma_N=-403.89$   $\sigma_M=-102.21$   $\tau=36.48$   $\sigma_{ID,max}=510.03$

Asta n. 4354 (-15852 -15919) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7960.19 My,Ed=-60.59 Mz,Ed=13.83  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.26+0.05+0.02=0.33  
Verifica ZZ: 0.26+0.04+0.02=0.32
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7674.84 Tz=-123.52 My=-61.78 Ty=145.34 Mz=13.04 Mx=7.77  
Tensioni:  $\sigma_N=-557.76$   $\sigma_M=-191.41$   $\tau=14.95$   $\sigma_{max}=-749.17$   
Tensioni:  $\sigma_N=-557.76$   $\sigma_M=135.57$   $\tau=49.57$   $\tau_{max}=49.57$   
Tensioni:  $\sigma_N=-557.76$   $\sigma_M=-191.41$   $\tau=14.95$   $\sigma_{ID,max}=749.62$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
Sollecitazioni: N=-7960.18 Tz=-102.48 My=-59.68 Ty=153.67 Mx=11.05  
V,Ed=153.67 Vc,Rd,Red=5829.37 V,Ed/Vc,Rd,Red=0.03
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-102.48 Vc,Rd,Red=11658.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5650.86 Tz=-61.57 My=-31.89 Ty=103.25 Mz=10.86 Mx=18.75  
Tensioni:  $\sigma_N=-410.67$   $\sigma_M=-113.44$   $\tau=36.07$   $\sigma_{max}=-524.11$   
Tensioni:  $\sigma_N=-410.67$   $\sigma_M=69.99$   $\tau=60.66$   $\tau_{max}=60.66$   
Tensioni:  $\sigma_N=-410.67$   $\sigma_M=-113.44$   $\tau=36.07$   $\sigma_{ID,max}=527.82$

Asta n. 4354 (-15919 -15985) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8742.07 My,Ed=-57.85 Mz,Ed=15.64  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.28+0.05+0.02=0.35  
Verifica ZZ: 0.28+0.04+0.02=0.34

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-8455.95$   $T_x=-71.08$   $M_y=-70.12$   $T_y=-138.18$   $M_z=13.62$   $M_x=17.68$   
 Tensioni:  $\sigma_N=-614.53$   $\sigma_M=-213.06$   $\tau=34.01$   $\sigma_{max}=-827.59$   
 Tensioni:  $\sigma_N=-614.53$   $\sigma_M=-153.86$   $\tau=66.91$   $\tau_{max}=66.91$   
 Tensioni:  $\sigma_N=-614.53$   $\sigma_M=-213.06$   $\tau=34.01$   $\sigma_{ID,max}=829.68$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-8741.98$   $T_x=-95.35$   $M_y=-48.81$   $T_y=-156.87$   $M_x=15.99$   
 $V,Ed=-156.87$   $V_c,Rd,Red=5785.80$   $V,Ed/V_c,Rd,Red=0.03$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-95.35$   $V_c,Rd,Red=11571.60$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6097.87$   $T_x=-101.88$   $M_y=-35.14$   $T_y=-101.83$   $M_z=11.42$   $M_x=11.72$   
 Tensioni:  $\sigma_N=-443.16$   $\sigma_M=-123.04$   $\tau=22.54$   $\sigma_{max}=-566.20$   
 Tensioni:  $\sigma_N=-443.16$   $\sigma_M=-77.10$   $\tau=46.79$   $\tau_{max}=46.79$   
 Tensioni:  $\sigma_N=-443.16$   $\sigma_M=-123.04$   $\tau=22.54$   $\sigma_{ID,max}=567.54$

Asta n. 4354 (-15985 -16051) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8326.40$   $M_y,Ed=-61.70$   $M_z,Ed=-1.20$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.05+0.00=0.32$   
 Verifica ZZ:  $0.27+0.04+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=-8326.32$   $T_x=-85.37$   $M_y=-54.35$   $T_y=-14.17$   $M_z=-1.07$   $M_x=17.05$   
 Tensioni:  $\sigma_N=-605.11$   $\sigma_M=-131.56$   $\tau=32.81$   $\sigma_{max}=-736.67$   
 Tensioni:  $\sigma_N=-605.11$   $\sigma_M=3.28$   $\tau=43.88$   $\tau_{max}=43.88$   
 Tensioni:  $\sigma_N=-605.11$   $\sigma_M=-131.56$   $\tau=32.81$   $\sigma_{ID,max}=738.86$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.06$   
 Sollecitazioni:  $N=-8560.55$   $T_x=-102.63$   $M_y=-40.93$   $T_y=-21.98$   $M_x=15.42$   
 $V,Ed=-21.98$   $V_c,Rd,Red=5790.82$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-102.63$   $V_c,Rd,Red=11581.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6006.23$   $T_x=-110.20$   $M_y=-48.43$   $T_y=-9.86$   $M_z=-1.09$   $M_x=11.50$   
 Tensioni:  $\sigma_N=-436.50$   $\sigma_M=-117.72$   $\tau=22.12$   $\sigma_{max}=-554.22$   
 Tensioni:  $\sigma_N=-436.50$   $\sigma_M=3.35$   $\tau=36.41$   $\tau_{max}=36.41$   
 Tensioni:  $\sigma_N=-436.50$   $\sigma_M=-117.72$   $\tau=22.12$   $\sigma_{ID,max}=555.54$

Asta n. 4354 (-16051 -16117) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8308.52$   $M_y,Ed=-52.15$   $M_z,Ed=-1.02$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.04+0.00=0.31$   
 Verifica ZZ:  $0.27+0.03+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-8308.52$   $T_x=-101.54$   $M_y=-52.15$   $T_y=5.55$   $M_z=-1.02$   $M_x=14.90$   
 Tensioni:  $\sigma_N=-603.82$   $\sigma_M=-126.21$   $\tau=28.68$   $\sigma_{max}=-730.02$   
 Tensioni:  $\sigma_N=-603.82$   $\sigma_M=3.12$   $\tau=41.84$   $\tau_{max}=41.84$   
 Tensioni:  $\sigma_N=-603.82$   $\sigma_M=-126.21$   $\tau=28.68$   $\sigma_{ID,max}=731.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-8308.43$   $T_x=-107.36$   $M_y=-41.94$   $T_y=5.55$   $M_x=14.90$

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V,Ed=5.55 Vc,Rd,Red=5795.37 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-107.36 Vc,Rd,Red=11590.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5985.91 T<sub>z</sub>=-113.80 M<sub>y</sub>=-55.48 T<sub>y</sub>=4.51 M<sub>z</sub>=1.32 M<sub>x</sub>=11.05  
Tensioni:  $\sigma_N$ =-435.02  $\sigma_M$ =-135.13  $\tau$ =21.26  $\sigma_{max}$ =-570.15  
Tensioni:  $\sigma_N$ =-435.02  $\sigma_M$ =-4.06  $\tau$ =36.01  $\tau_{max}$ =36.01  
Tensioni:  $\sigma_N$ =-435.02  $\sigma_M$ =-135.13  $\tau$ =21.26  $\sigma_{ID,max}$ =571.34

Asta n. 4354 (-16117 -16183) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-8355.01 M<sub>y</sub>,Ed=-39.88 M<sub>z</sub>,Ed=-0.64  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.27+0.03+0.00=0.30  
Verifica ZZ: 0.27+0.03+0.00=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-8508.04 T<sub>z</sub>=-144.19 M<sub>y</sub>=-21.41 T<sub>y</sub>=6.55 M<sub>z</sub>=-1.08 M<sub>x</sub>=10.82  
Tensioni:  $\sigma_N$ =-618.32  $\sigma_M$ =-54.16  $\tau$ =20.81  $\sigma_{max}$ =-672.48  
Tensioni:  $\sigma_N$ =-618.32  $\sigma_M$ =3.32  $\tau$ =39.51  $\tau_{max}$ =39.51  
Tensioni:  $\sigma_N$ =-618.32  $\sigma_M$ =-54.16  $\tau$ =20.81  $\sigma_{ID,max}$ =673.44

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
Sollecitazioni: N=-8507.95 T<sub>z</sub>=-150.01 M<sub>y</sub>=-7.03 T<sub>y</sub>=6.55 M<sub>x</sub>=10.82  
V,Ed=6.55 Vc,Rd,Red=5831.44 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-150.01 Vc,Rd,Red=11662.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6002.26 T<sub>z</sub>=-120.07 M<sub>y</sub>=-60.89 T<sub>y</sub>=4.78 M<sub>z</sub>=1.70 M<sub>x</sub>=10.40  
Tensioni:  $\sigma_N$ =-436.21  $\sigma_M$ =-149.18  $\tau$ =20.01  $\sigma_{max}$ =-585.39  
Tensioni:  $\sigma_N$ =-436.21  $\sigma_M$ =-5.22  $\tau$ =35.58  $\tau_{max}$ =35.58  
Tensioni:  $\sigma_N$ =-436.21  $\sigma_M$ =-149.18  $\tau$ =20.01  $\sigma_{ID,max}$ =586.42

Asta n. 4354 (-16183 -16249) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-8429.21 M<sub>y</sub>,Ed=-23.49 M<sub>z</sub>,Ed=0.60  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.27+0.02+0.00=0.29  
Verifica ZZ: 0.27+0.02+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.01 - Classe 3  
Sollecitazioni: N=-7570.51 T<sub>z</sub>=-152.95 M<sub>y</sub>=-38.80 T<sub>y</sub>=8.37 M<sub>z</sub>=1.00 M<sub>x</sub>=5.40  
Tensioni:  $\sigma_N$ =-550.18  $\sigma_M$ =-94.76  $\tau$ =10.39  $\sigma_{max}$ =-644.94  
Tensioni:  $\sigma_N$ =-550.18  $\sigma_M$ =-3.07  $\tau$ =30.22  $\tau_{max}$ =30.22  
Tensioni:  $\sigma_N$ =-550.18  $\sigma_M$ =-94.76  $\tau$ =10.39  $\sigma_{ID,max}$ =645.19

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
Sollecitazioni: N=-8553.32 T<sub>z</sub>=-180.40 M<sub>y</sub>=13.37 T<sub>y</sub>=5.27 M<sub>x</sub>=7.19  
V,Ed=5.27 Vc,Rd,Red=5863.49 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-180.40 Vc,Rd,Red=11727.00 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6032.67 T<sub>z</sub>=-127.52 M<sub>y</sub>=-64.19 T<sub>y</sub>=3.15 M<sub>z</sub>=1.91 M<sub>x</sub>=9.67  
Tensioni:  $\sigma_N$ =-438.42  $\sigma_M$ =-157.67  $\tau$ =18.62  $\sigma_{max}$ =-596.09

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Tensioni:  $\sigma_N=-438.42$   $\sigma_M=-5.85$   $\tau=35.15$   $\tau_{max}=35.15$   
Tensioni:  $\sigma_N=-438.42$   $\sigma_M=-157.67$   $\tau=18.62$   $\sigma_{ID,max}=596.96$

Asta n. 4354 (-16249 -16315) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8621.95 My,Ed=37.83 Mz,Ed=0.21  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.28+0.03+0.00=0.31  
Verifica ZZ: 0.28+0.02+0.00=0.30

- Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.01 - Classe 1  
Sollecitazioni: N=-8520.13 Tz=-214.16 Ty=5.20 Mx=1.85  
N,Ed=-8520.13 Nc,Rd=-30796.20 N,Ed/Nc,Rd=0.28

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-8520.05 Tz=-219.46 My=18.70 Ty=5.20 Mx=1.85  
V,Ed=5.20 Vc,Rd,Red=5910.61 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-219.46 Vc,Rd,Red=11821.20 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6070.77 Tz=-137.29 My=-65.26 Ty=2.82 Mz=1.96 Mx=9.02  
Tensioni:  $\sigma_N=-441.19$   $\sigma_M=-160.39$   $\tau=17.36$   $\sigma_{max}=-601.58$   
Tensioni:  $\sigma_N=-441.19$   $\sigma_M=-6.03$   $\tau=35.16$   $\tau_{max}=35.16$   
Tensioni:  $\sigma_N=-441.19$   $\sigma_M=-160.39$   $\tau=17.36$   $\sigma_{ID,max}=602.33$

Asta n. 4354 (-16315 -16381) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8708.94 My,Ed=66.07 Mz,Ed=0.33  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.28+0.05+0.00=0.34  
Verifica ZZ: 0.28+0.04+0.00=0.33

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-8622.45 Tz=-257.80 My=48.40 Ty=4.10 Mz=1.02 Mx=-2.76  
Tensioni:  $\sigma_N=-626.63$   $\sigma_M=-117.42$   $\tau=5.31$   $\sigma_{max}=-744.05$   
Tensioni:  $\sigma_N=-626.63$   $\sigma_M=3.14$   $\tau=38.72$   $\tau_{max}=38.72$   
Tensioni:  $\sigma_N=-626.63$   $\sigma_M=-117.42$   $\tau=5.31$   $\sigma_{ID,max}=744.11$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.09  
Sollecitazioni: N=-8622.46 Tz=-257.27 My=46.11 Ty=4.10 Mx=-2.76  
V,Ed=4.10 Vc,Rd,Red=5902.57 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-257.27 Vc,Rd,Red=11805.10 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6114.70 Tz=-147.41 My=74.70 Ty=2.97 Mz=1.89 Mx=-10.84  
Tensioni:  $\sigma_N=-444.38$   $\sigma_M=-182.31$   $\tau=20.85$   $\sigma_{max}=-626.69$   
Tensioni:  $\sigma_N=-444.38$   $\sigma_M=5.79$   $\tau=39.96$   $\tau_{max}=39.96$   
Tensioni:  $\sigma_N=-444.38$   $\sigma_M=-182.31$   $\tau=20.85$   $\sigma_{ID,max}=627.73$

Asta n. 4354 (-16381 -16447) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8815.45 My,Ed=97.59 Mz,Ed=0.82  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr, z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.29+0.08+0.00=0.37  
 Verifica ZZ: 0.29+0.06+0.00=0.35

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-8735.47 T<sub>z</sub>=-289.77 M<sub>y</sub>=82.06 T<sub>y</sub>=6.93 M<sub>z</sub>=1.41 M<sub>x</sub>=-6.34  
 Tensioni:  $\sigma_N=-634.85$   $\sigma_M=-197.93$   $\tau=12.20$   $\sigma_{max}=-832.78$   
 Tensioni:  $\sigma_N=-634.85$   $\sigma_M=4.33$   $\tau=49.76$   $\tau_{max}=49.76$   
 Tensioni:  $\sigma_N=-634.85$   $\sigma_M=-197.93$   $\tau=12.20$   $\sigma_{ID,max}=833.04$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.04  
 Sollecitazioni: N=-8735.52 T<sub>z</sub>=-286.06 M<sub>y</sub>=64.15 T<sub>y</sub>=6.93 M<sub>z</sub>=-6.34  
 V,Ed=6.93 Vc,Rd,Red=5870.93 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-286.06 Vc,Rd,Red=11741.90 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6165.77 T<sub>z</sub>=-156.68 M<sub>y</sub>=90.86 T<sub>y</sub>=2.34 M<sub>z</sub>=1.89 M<sub>x</sub>=-12.32  
 Tensioni:  $\sigma_N=-448.09$   $\sigma_M=-220.32$   $\tau=23.71$   $\sigma_{max}=-668.41$   
 Tensioni:  $\sigma_N=-448.09$   $\sigma_M=5.80$   $\tau=44.02$   $\tau_{max}=44.02$   
 Tensioni:  $\sigma_N=-448.09$   $\sigma_M=-220.32$   $\tau=23.71$   $\sigma_{ID,max}=669.67$

Asta n. 4354 (-16447 -16513) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8958.71 My,Ed=131.51 Mz,Ed=2.86  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.29+0.11+0.00=0.40  
 Verifica ZZ: 0.29+0.08+0.00=0.38

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-8958.62 T<sub>z</sub>=-291.24 M<sub>y</sub>=131.51 T<sub>y</sub>=26.70 M<sub>z</sub>=2.86 M<sub>x</sub>=-5.07  
 Tensioni:  $\sigma_N=-651.06$   $\sigma_M=-319.31$   $\tau=9.76$   $\sigma_{max}=-970.37$   
 Tensioni:  $\sigma_N=-651.06$   $\sigma_M=8.76$   $\tau=47.51$   $\tau_{max}=47.51$   
 Tensioni:  $\sigma_N=-651.06$   $\sigma_M=-319.31$   $\tau=9.76$   $\sigma_{ID,max}=970.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=-8873.66 T<sub>z</sub>=-307.61 M<sub>y</sub>=88.27 T<sub>y</sub>=22.75 M<sub>z</sub>=-8.55  
 V,Ed=22.75 Vc,Rd,Red=5851.43 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-307.61 Vc,Rd,Red=11702.90 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6237.01 T<sub>z</sub>=-164.93 M<sub>y</sub>=108.10 T<sub>y</sub>=12.97 M<sub>z</sub>=2.77 M<sub>x</sub>=-13.19  
 Tensioni:  $\sigma_N=-453.27$   $\sigma_M=-263.97$   $\tau=25.37$   $\sigma_{max}=-717.24$   
 Tensioni:  $\sigma_N=-453.27$   $\sigma_M=8.51$   $\tau=46.75$   $\tau_{max}=46.75$   
 Tensioni:  $\sigma_N=-453.27$   $\sigma_M=-263.97$   $\tau=25.37$   $\sigma_{ID,max}=718.58$

Asta n. 4354 (-16513 -16579) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-9145.84 My,Ed=165.74 Mz,Ed=13.71  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.30+0.13+0.02=0.45  
 Verifica ZZ: 0.30+0.11+0.02=0.42

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-9145.75 T<sub>z</sub>=-294.09 M<sub>y</sub>=165.74 T<sub>y</sub>=116.43 M<sub>z</sub>=13.71 M<sub>x</sub>=-5.35  
 Tensioni:  $\sigma_N=-664.66$   $\sigma_M=-438.18$   $\tau=10.29$   $\sigma_{max}=-1102.84$

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Tensioni:  $\sigma_N=-664.66$   $\sigma_M=42.04$   $\tau=48.43$   $\tau_{max}=48.43$   
 Tensioni:  $\sigma_N=-664.66$   $\sigma_M=-438.18$   $\tau=10.29$   $\sigma_{ID,max}=1102.98$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3095.56$   $T_z=-164.64$   $M_y=27.42$   $T_y=23.99$   $M_x=-11.65$   
 $V,Ed=23.99$   $V_c,Rd,Red=5824.07$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-164.64$   $V_c,Rd,Red=11648.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6345.18$   $T_z=-167.29$   $M_y=126.05$   $T_y=88.36$   $M_z=11.09$   $M_x=-13.17$   
 Tensioni:  $\sigma_N=-461.13$   $\sigma_M=-335.60$   $\tau=25.35$   $\sigma_{max}=-796.74$   
 Tensioni:  $\sigma_N=-461.13$   $\sigma_M=34.02$   $\tau=47.05$   $\tau_{max}=47.05$   
 Tensioni:  $\sigma_N=-461.13$   $\sigma_M=-335.60$   $\tau=25.35$   $\sigma_{ID,max}=797.95$

Asta n. 4354 (-16579 -16546) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-9142.24$   $M_y,Ed=165.60$   $M_z,Ed=13.65$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.30+0.13+0.02=0.45$   
 Verifica ZZ:  $0.30+0.11+0.02=0.42$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-9142.15$   $T_z=293.12$   $M_y=165.60$   $T_y=-115.98$   $M_z=13.65$   $M_x=5.42$   
 Tensioni:  $\sigma_N=-664.40$   $\sigma_M=-437.66$   $\tau=10.44$   $\sigma_{max}=-1102.06$   
 Tensioni:  $\sigma_N=-664.40$   $\sigma_M=41.88$   $\tau=48.46$   $\tau_{max}=48.46$   
 Tensioni:  $\sigma_N=-664.40$   $\sigma_M=-437.66$   $\tau=10.44$   $\sigma_{ID,max}=1102.21$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X_l=0.04$   
 Sollecitazioni:  $N=-1313.58$   $T_z=81.01$   $M_y=12.99$   $T_y=-10.22$   $M_x=4.81$   
 $V,Ed=-10.22$   $V_c,Rd,Red=5884.42$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=81.01$   $V_c,Rd,Red=11768.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6396.16$   $T_z=170.19$   $M_y=125.95$   $T_y=-84.28$   $M_z=10.68$   $M_x=11.12$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=-333.92$   $\tau=21.40$   $\sigma_{max}=-798.76$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=32.77$   $\tau=43.48$   $\tau_{max}=43.48$   
 Tensioni:  $\sigma_N=-464.84$   $\sigma_M=-333.92$   $\tau=21.40$   $\sigma_{ID,max}=799.62$

Asta n. 4354 (-16546 -16480) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8955.79$   $M_y,Ed=131.43$   $M_z,Ed=2.83$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.29+0.11+0.00=0.40$   
 Verifica ZZ:  $0.29+0.08+0.00=0.38$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-8955.70$   $T_z=290.54$   $M_y=131.43$   $T_y=-26.56$   $M_z=2.83$   $M_x=5.15$   
 Tensioni:  $\sigma_N=-650.85$   $\sigma_M=-319.03$   $\tau=9.90$   $\sigma_{max}=-969.88$   
 Tensioni:  $\sigma_N=-650.85$   $\sigma_M=8.69$   $\tau=47.57$   $\tau_{max}=47.57$   
 Tensioni:  $\sigma_N=-650.85$   $\sigma_M=-319.03$   $\tau=9.90$   $\sigma_{ID,max}=970.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-8872.12$   $T_z=306.69$   $M_y=88.26$   $T_y=-22.68$   $M_x=8.60$   
 $V,Ed=-22.68$   $V_c,Rd,Red=5851.04$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]



V,Ed=306.69 Vc,Rd,Red=11702.10 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6303.94 T<sub>z</sub>=167.56 M<sub>y</sub>=108.67 T<sub>y</sub>=-11.20 M<sub>z</sub>=2.67 M<sub>x</sub>=11.09  
Tensioni:  $\sigma_N$ =-458.13  $\sigma_M$ =-264.93  $\tau$ =21.33  $\sigma_{max}$ =-723.06  
Tensioni:  $\sigma_N$ =-458.13  $\sigma_M$ =8.17  $\tau$ =43.05  $\tau_{max}$ =43.05  
Tensioni:  $\sigma_N$ =-458.13  $\sigma_M$ =-264.93  $\tau$ =21.33  $\sigma_{ID,max}$ =724.01

Asta n. 4354 (-16480 -16414) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8813.65 M<sub>y</sub>,Ed=97.59 M<sub>z</sub>,Ed=0.81  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.29+0.08+0.00=0.37  
Verifica ZZ: 0.29+0.06+0.00=0.35

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-8734.70 T<sub>z</sub>=288.84 M<sub>y</sub>=82.06 T<sub>y</sub>=-6.93 M<sub>z</sub>=1.41 M<sub>x</sub>=6.38  
Tensioni:  $\sigma_N$ =-634.79  $\sigma_M$ =-197.93  $\tau$ =12.28  $\sigma_{max}$ =-832.71  
Tensioni:  $\sigma_N$ =-634.79  $\sigma_M$ =4.32  $\tau$ =49.73  $\tau_{max}$ =49.73  
Tensioni:  $\sigma_N$ =-634.79  $\sigma_M$ =-197.93  $\tau$ =12.28  $\sigma_{ID,max}$ =832.99

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.06  
Sollecitazioni: N=-8734.76 T<sub>z</sub>=285.14 M<sub>y</sub>=64.21 T<sub>y</sub>=-6.93 M<sub>x</sub>=6.38  
V,Ed=-6.93 Vc,Rd,Red=5870.56 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=285.14 Vc,Rd,Red=11741.10 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6250.90 T<sub>z</sub>=157.99 M<sub>y</sub>=92.66 T<sub>y</sub>=-3.33 M<sub>z</sub>=1.89 M<sub>x</sub>=10.22  
Tensioni:  $\sigma_N$ =-454.28  $\sigma_M$ =-224.52  $\tau$ =19.67  $\sigma_{max}$ =-678.80  
Tensioni:  $\sigma_N$ =-454.28  $\sigma_M$ =5.79  $\tau$ =40.15  $\tau_{max}$ =40.15  
Tensioni:  $\sigma_N$ =-454.28  $\sigma_M$ =-224.52  $\tau$ =19.67  $\sigma_{ID,max}$ =679.66

Asta n. 4354 (-16414 -16348) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8708.45 M<sub>y</sub>,Ed=66.15 M<sub>z</sub>,Ed=0.32  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.28+0.05+0.00=0.34  
Verifica ZZ: 0.28+0.04+0.00=0.33

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-8622.54 T<sub>z</sub>=256.90 M<sub>y</sub>=48.51 T<sub>y</sub>=-4.09 M<sub>z</sub>=1.02 M<sub>x</sub>=2.80  
Tensioni:  $\sigma_N$ =-626.64  $\sigma_M$ =-117.66  $\tau$ =5.39  $\sigma_{max}$ =-744.30  
Tensioni:  $\sigma_N$ =-626.64  $\sigma_M$ =3.12  $\tau$ =38.69  $\tau_{max}$ =38.69  
Tensioni:  $\sigma_N$ =-626.64  $\sigma_M$ =-117.66  $\tau$ =5.39  $\sigma_{ID,max}$ =744.36

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.01  
Sollecitazioni: N=-8622.55 T<sub>z</sub>=256.37 M<sub>y</sub>=46.23 T<sub>y</sub>=-4.09 M<sub>x</sub>=2.80  
V,Ed=-4.09 Vc,Rd,Red=5902.20 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=256.37 Vc,Rd,Red=11804.40 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6219.33 T<sub>z</sub>=147.27 M<sub>y</sub>=77.92 T<sub>y</sub>=-3.77 M<sub>z</sub>=1.92 M<sub>x</sub>=8.79  
Tensioni:  $\sigma_N$ =-451.99  $\sigma_M$ =-189.99  $\tau$ =16.92  $\sigma_{max}$ =-641.98  
Tensioni:  $\sigma_N$ =-451.99  $\sigma_M$ =5.89  $\tau$ =36.01  $\tau_{max}$ =36.01  
Tensioni:  $\sigma_N$ =-451.99  $\sigma_M$ =-189.99  $\tau$ =16.92  $\sigma_{ID,max}$ =642.64

Asta n. 4354 (-16348 -16282) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8623.03 My,Ed=38.00 Mz,Ed=-0.21  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.28+0.03+0.00=0.31  
 Verifica ZZ: 0.28+0.02+0.00=0.30

- Verifica a compressione [4.2.9] - CC 49 SLU Xl=0.09 - Classe 1  
 Sollecitazioni: N=-8521.26 Tz=213.26 Ty=-5.15 Mx=-1.80  
 N,Ed=-8521.26 Nc,Rd=-30796.20 N,Ed/Nc,Rd=0.28

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=-8521.17 Tz=218.56 My=18.92 Ty=-5.15 Mx=-1.80  
 V,Ed=-5.15 Vc,Rd,Red=5910.99 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=218.56 Vc,Rd,Red=11822.00 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6195.22 Tz=135.96 My=-69.66 Ty=-3.37 Mz=2.02 Mx=-7.40  
 Tensioni:  $\sigma_N=-450.23$   $\sigma_M=-170.92$   $\tau=14.24$   $\sigma_{max}=-621.16$   
 Tensioni:  $\sigma_N=-450.23$   $\sigma_M=-6.19$   $\tau=31.87$   $\tau_{max}=31.87$   
 Tensioni:  $\sigma_N=-450.23$   $\sigma_M=-170.92$   $\tau=14.24$   $\sigma_{ID,max}=621.65$

Asta n. 4354 (-16282 -16216) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8431.75 My,Ed=-23.09 Mz,Ed=0.60  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.27+0.02+0.00=0.29  
 Verifica ZZ: 0.27+0.01+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.09 - Classe 3  
 Sollecitazioni: N=-7579.83 Tz=151.86 My=-38.30 Ty=-8.29 Mz=1.01 Mx=-5.33  
 Tensioni:  $\sigma_N=-550.86$   $\sigma_M=-93.61$   $\tau=10.27$   $\sigma_{max}=-644.47$   
 Tensioni:  $\sigma_N=-550.86$   $\sigma_M=-3.09$   $\tau=29.95$   $\tau_{max}=29.95$   
 Tensioni:  $\sigma_N=-550.86$   $\sigma_M=-93.61$   $\tau=10.27$   $\sigma_{ID,max}=644.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
 Sollecitazioni: N=-8556.48 Tz=179.79 My=13.61 Ty=-5.12 Mx=-7.10  
 V,Ed=-5.12 Vc,Rd,Red=5864.21 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=179.79 Vc,Rd,Red=11728.40 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6176.83 Tz=125.50 My=-69.52 Ty=-2.87 Mz=1.97 Mx=-8.53  
 Tensioni:  $\sigma_N=-448.90$   $\sigma_M=-170.42$   $\tau=16.41$   $\sigma_{max}=-619.32$   
 Tensioni:  $\sigma_N=-448.90$   $\sigma_M=-6.04$   $\tau=32.67$   $\tau_{max}=32.67$   
 Tensioni:  $\sigma_N=-448.90$   $\sigma_M=-170.42$   $\tau=16.41$   $\sigma_{ID,max}=619.97$

Asta n. 4354 (-16216 -16150) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8359.14 My,Ed=-39.37 Mz,Ed=-0.60  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.27+0.03+0.00=0.30

Verifica ZZ:  $0.27+0.03+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8513.52$   $T_2=143.56$   $M_y=-21.03$   $T_y=-6.27$   $M_z=-1.05$   $M_x=-10.73$   
 Tensioni:  $\sigma_N=-618.72$   $\sigma_M=-53.14$   $\tau=20.65$   $\sigma_{max}=-671.86$   
 Tensioni:  $\sigma_N=-618.72$   $\sigma_M=3.21$   $\tau=39.26$   $\tau_{max}=39.26$   
 Tensioni:  $\sigma_N=-618.72$   $\sigma_M=-53.14$   $\tau=20.65$   $\sigma_{ID,max}=672.81$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-8513.43$   $T_2=149.38$   $M_y=-6.71$   $T_y=-6.27$   $M_x=-10.73$   
 $V,Ed=-6.27$   $Vc,Rd,Red=5832.17$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=149.38$   $Vc,Rd,Red=11664.30$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6166.04$   $T_2=118.65$   $M_y=-66.83$   $T_y=-4.36$   $M_z=1.76$   $M_x=-9.83$   
 Tensioni:  $\sigma_N=-448.11$   $\sigma_M=-163.35$   $\tau=18.91$   $\sigma_{max}=-611.46$   
 Tensioni:  $\sigma_N=-448.11$   $\sigma_M=-5.41$   $\tau=34.29$   $\tau_{max}=34.29$   
 Tensioni:  $\sigma_N=-448.11$   $\sigma_M=-163.35$   $\tau=18.91$   $\sigma_{ID,max}=612.34$

Asta n. 4354 (-16150 -16084) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8314.76$   $M_y,Ed=-51.56$   $M_z,Ed=-0.98$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.04+0.00=0.31$   
 Verifica ZZ:  $0.27+0.03+0.00=0.30$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8505.92$   $T_2=115.67$   $M_y=-34.97$   $T_y=-2.07$   $M_z=-1.20$   $M_x=-13.62$   
 Tensioni:  $\sigma_N=-618.16$   $\sigma_M=-86.47$   $\tau=26.20$   $\sigma_{max}=-704.63$   
 Tensioni:  $\sigma_N=-618.16$   $\sigma_M=3.68$   $\tau=41.20$   $\tau_{max}=41.20$   
 Tensioni:  $\sigma_N=-618.16$   $\sigma_M=-86.47$   $\tau=26.20$   $\sigma_{ID,max}=706.09$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-8505.83$   $T_2=121.49$   $M_y=-23.38$   $T_y=-2.07$   $M_x=-13.62$   
 $V,Ed=-2.07$   $Vc,Rd,Red=5806.71$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=121.49$   $Vc,Rd,Red=11613.40$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6169.53$   $T_2=113.80$   $M_y=-61.69$   $T_y=-4.44$   $M_z=1.37$   $M_x=-11.01$   
 Tensioni:  $\sigma_N=-448.37$   $\sigma_M=-149.87$   $\tau=21.18$   $\sigma_{max}=-598.23$   
 Tensioni:  $\sigma_N=-448.37$   $\sigma_M=-4.19$   $\tau=35.93$   $\tau_{max}=35.93$   
 Tensioni:  $\sigma_N=-448.37$   $\sigma_M=-149.87$   $\tau=21.18$   $\sigma_{ID,max}=599.36$

Asta n. 4354 (-16084 -16018) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8333.35$   $M_y,Ed=-61.00$   $M_z,Ed=-1.16$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.05+0.00=0.32$   
 Verifica ZZ:  $0.27+0.04+0.00=0.31$
- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.01$  - Classe 3  
 Sollecitazioni:  $N=-8333.27$   $T_2=84.47$   $M_y=-53.73$   $T_y=13.99$   $M_z=-1.03$   $M_x=-17.01$   
 Tensioni:  $\sigma_N=-605.62$   $\sigma_M=-129.97$   $\tau=32.72$   $\sigma_{max}=-735.59$   
 Tensioni:  $\sigma_N=-605.62$   $\sigma_M=3.16$   $\tau=43.67$   $\tau_{max}=43.67$   
 Tensioni:  $\sigma_N=-605.62$   $\sigma_M=-129.97$   $\tau=32.72$   $\sigma_{ID,max}=737.77$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.03$   
Sollecitazioni:  $N=-8570.56$   $T_z=102.45$   $M_y=-39.55$   $T_y=21.96$   $M_x=-15.34$   
 $V, Ed=21.96$   $V_c, Rd, Red=5791.51$   $V, Ed/V_c, Rd, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=102.45$   $V_c, Rd, Red=11583.00$   $V, Ed/V_c, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-6210.76$   $T_z=111.90$   $M_y=-54.70$   $T_y=12.65$   $M_z=-1.09$   $M_x=-11.80$   
Tensioni:  $\sigma_N=-451.36$   $\sigma_M=-132.45$   $\tau=22.71$   $\sigma_{max}=-583.81$   
Tensioni:  $\sigma_N=-451.36$   $\sigma_M=3.34$   $\tau=37.21$   $\tau_{max}=37.21$   
Tensioni:  $\sigma_N=-451.36$   $\sigma_M=-132.45$   $\tau=22.71$   $\sigma_{ID, max}=585.14$

Asta n. 4354 (-16018 -15952) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-8752.54$   $M_y, Ed=-57.15$   $M_z, Ed=15.62$   
Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr, y}=55408000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr, z}=18404200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.28+0.05+0.02=0.35$   
Verifica ZZ:  $0.28+0.04+0.02=0.34$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-8462.46$   $T_z=69.42$   $M_y=-69.23$   $T_y=137.45$   $M_z=13.57$   $M_x=-17.64$   
Tensioni:  $\sigma_N=-615.00$   $\sigma_M=-210.79$   $\tau=33.94$   $\sigma_{max}=-825.79$   
Tensioni:  $\sigma_N=-615.00$   $\sigma_M=-151.91$   $\tau=66.66$   $\tau_{max}=66.66$   
Tensioni:  $\sigma_N=-615.00$   $\sigma_M=-210.79$   $\tau=33.94$   $\sigma_{ID, max}=827.88$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-8752.44$   $T_z=93.84$   $M_y=-48.27$   $T_y=156.36$   $M_x=-15.91$   
 $V, Ed=156.36$   $V_c, Rd, Red=5786.45$   $V, Ed/V_c, Rd, Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=93.84$   $V_c, Rd, Red=11572.90$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6325.99$   $T_z=103.14$   $M_y=-41.87$   $T_y=114.02$   $M_z=12.77$   $M_x=-12.07$   
Tensioni:  $\sigma_N=-459.74$   $\sigma_M=-143.63$   $\tau=23.22$   $\sigma_{max}=-603.37$   
Tensioni:  $\sigma_N=-459.74$   $\sigma_M=-91.87$   $\tau=50.38$   $\tau_{max}=50.38$   
Tensioni:  $\sigma_N=-459.74$   $\sigma_M=-143.63$   $\tau=23.22$   $\sigma_{ID, max}=604.71$

Asta n. 4354 (-15952 -15886) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-7966.56$   $M_y, Ed=-59.97$   $M_z, Ed=13.78$   
Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.78$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr, y}=55308600.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr, z}=18371200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.26+0.05+0.02=0.33$   
Verifica ZZ:  $0.26+0.04+0.02=0.32$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-7678.80$   $T_z=122.69$   $M_y=-61.05$   $T_y=-144.44$   $M_z=12.97$   $M_x=-7.84$   
Tensioni:  $\sigma_N=-558.05$   $\sigma_M=-189.44$   $\tau=15.09$   $\sigma_{max}=-747.49$   
Tensioni:  $\sigma_N=-558.05$   $\sigma_M=133.97$   $\tau=49.49$   $\tau_{max}=49.49$   
Tensioni:  $\sigma_N=-558.05$   $\sigma_M=-189.44$   $\tau=15.09$   $\sigma_{ID, max}=747.95$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.09$   
Sollecitazioni:  $N=-7966.55$   $T_z=101.95$   $M_y=-59.07$   $T_y=-152.88$   $M_x=-11.16$   
 $V, Ed=-152.88$   $V_c, Rd, Red=5828.41$   $V, Ed/V_c, Rd, Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=101.95$   $V_c, Rd, Red=11656.80$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

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Sollecitazioni:  $N=-5920.82$   $T_x=73.32$   $M_y=-38.16$   $T_y=-106.36$   $M_z=11.16$   $M_x=-18.52$

Tensioni:  $\sigma_N=-430.29$   $\sigma_M=-129.22$   $\tau=35.63$   $\sigma_{max}=-559.51$

Tensioni:  $\sigma_N=-430.29$   $\sigma_M=83.73$   $\tau=60.96$   $\tau_{max}=60.96$

Tensioni:  $\sigma_N=-430.29$   $\sigma_M=-129.22$   $\tau=35.63$   $\sigma_{ID,max}=562.90$

Asta n. 4354 (-15886 -15819) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni:  $N,Ed=-7527.96$   $M_y,Ed=-86.13$   $M_z,Ed=-2.38$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$

Verifica YY:  $0.24+0.07+0.00=0.32$

Verifica ZZ:  $0.24+0.06+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-7527.96$   $T_x=108.95$   $M_y=-86.13$   $T_y=-18.45$   $M_z=-2.38$   $M_x=-8.33$

Tensioni:  $\sigma_N=-547.09$   $\sigma_M=-210.94$   $\tau=16.03$   $\sigma_{max}=-758.02$

Tensioni:  $\sigma_N=-547.09$   $\sigma_M=7.31$   $\tau=30.15$   $\tau_{max}=30.15$

Tensioni:  $\sigma_N=-547.09$   $\sigma_M=-210.94$   $\tau=16.03$   $\sigma_{ID,max}=758.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.00$

Sollecitazioni:  $N=-7527.87$   $T_x=114.77$   $M_y=-75.19$   $T_y=-18.45$   $M_x=-8.33$

$V,Ed=-18.45$   $V_c,Rd,Red=5853.39$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=114.77$   $V_c,Rd,Red=11706.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5837.28$   $T_x=64.07$   $M_y=-50.58$   $T_y=-8.93$   $M_z=-1.31$   $M_x=-18.72$

Tensioni:  $\sigma_N=-424.22$   $\sigma_M=-123.56$   $\tau=36.01$   $\sigma_{max}=-547.78$

Tensioni:  $\sigma_N=-424.22$   $\sigma_M=4.03$   $\tau=44.32$   $\tau_{max}=44.32$

Tensioni:  $\sigma_N=-424.22$   $\sigma_M=-123.56$   $\tau=36.01$   $\sigma_{ID,max}=551.32$

Asta n. 4354 (-15819 -15753) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni:  $N,Ed=-7441.65$   $M_y,Ed=-97.04$   $M_z,Ed=-1.79$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$

Verifica YY:  $0.24+0.08+0.00=0.32$

Verifica ZZ:  $0.24+0.06+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-7441.65$   $T_x=85.84$   $M_y=-97.04$   $T_y=1.32$   $M_z=-1.66$   $M_x=-10.34$

Tensioni:  $\sigma_N=-540.82$   $\sigma_M=-234.02$   $\tau=19.89$   $\sigma_{max}=-774.84$

Tensioni:  $\sigma_N=-540.82$   $\sigma_M=5.08$   $\tau=31.02$   $\tau_{max}=31.02$

Tensioni:  $\sigma_N=-540.82$   $\sigma_M=-234.02$   $\tau=19.89$   $\sigma_{ID,max}=775.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.00$

Sollecitazioni:  $N=-5414.02$   $T_x=90.93$   $M_y=-83.09$   $T_y=5.46$   $M_x=1.58$

$V,Ed=5.46$   $V_c,Rd,Red=5912.92$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=90.93$   $V_c,Rd,Red=11825.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5803.19$   $T_x=50.33$   $M_y=-56.20$   $T_y=3.75$   $M_z=-1.54$   $M_x=-19.01$

Tensioni:  $\sigma_N=-421.74$   $\sigma_M=-137.59$   $\tau=36.57$   $\sigma_{max}=-559.33$

Tensioni:  $\sigma_N=-421.74$   $\sigma_M=4.72$   $\tau=43.10$   $\tau_{max}=43.10$

Tensioni:  $\sigma_N=-421.74$   $\sigma_M=-137.59$   $\tau=36.57$   $\sigma_{ID,max}=562.91$

Asta n. 4354 (-15753 -15687) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-7393.18 My,Ed=-104.29 Mz,Ed=-1.44  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.08+0.00=0.33  
 Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7393.18 T<sub>z</sub>=54.45 M<sub>y</sub>=-104.29 T<sub>y</sub>=2.48 M<sub>z</sub>=-1.20 M<sub>x</sub>=-13.75  
 Tensioni:  $\sigma_N=-537.29$   $\sigma_M=-249.43$   $\tau=26.45$   $\sigma_{max}=-786.73$   
 Tensioni:  $\sigma_N=-537.29$   $\sigma_M=3.67$   $\tau=33.51$   $\tau_{max}=33.51$   
 Tensioni:  $\sigma_N=-537.29$   $\sigma_M=-249.43$   $\tau=26.45$   $\sigma_{ID,max}=788.06$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-5385.29 T<sub>z</sub>=59.44 M<sub>y</sub>=-93.49 T<sub>y</sub>=4.48 M<sub>x</sub>=-2.03  
 V,Ed=4.48 Vc,Rd,Red=5908.95 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=59.44 Vc,Rd,Red=11817.90 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5792.48 T<sub>z</sub>=34.27 M<sub>y</sub>=-59.82 T<sub>y</sub>=3.34 M<sub>z</sub>=-1.68 M<sub>x</sub>=-19.51  
 Tensioni:  $\sigma_N=-420.96$   $\sigma_M=-146.59$   $\tau=37.54$   $\sigma_{max}=-567.56$   
 Tensioni:  $\sigma_N=-420.96$   $\sigma_M=5.16$   $\tau=41.98$   $\tau_{max}=41.98$   
 Tensioni:  $\sigma_N=-420.96$   $\sigma_M=-146.59$   $\tau=37.54$   $\sigma_{ID,max}=571.27$

Asta n. 4354 (-15687 -15621) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7361.19 My,Ed=-106.92 Mz,Ed=-1.05  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.09+0.00=0.33  
 Verifica ZZ: 0.24+0.07+0.00=0.31
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.07 - Classe 3  
 Sollecitazioni: N=-7361.17 T<sub>z</sub>=17.39 M<sub>y</sub>=-106.48 M<sub>z</sub>=-1.00 M<sub>x</sub>=-18.08  
 Tensioni:  $\sigma_N=-534.97$   $\sigma_M=-253.91$   $\tau=34.78$   $\sigma_{max}=-788.87$   
 Tensioni:  $\sigma_N=-534.97$   $\sigma_M=3.08$   $\tau=37.04$   $\tau_{max}=37.04$   
 Tensioni:  $\sigma_N=-534.97$   $\sigma_M=-253.91$   $\tau=34.78$   $\sigma_{ID,max}=791.17$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-5359.58 T<sub>z</sub>=19.48 M<sub>y</sub>=-99.95 T<sub>y</sub>=2.58 M<sub>x</sub>=-6.68  
 V,Ed=2.58 Vc,Rd,Red=5867.96 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=19.48 Vc,Rd,Red=11735.90 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5788.26 T<sub>z</sub>=17.66 M<sub>y</sub>=-60.92 T<sub>y</sub>=1.29 M<sub>z</sub>=-1.74 M<sub>x</sub>=-20.22  
 Tensioni:  $\sigma_N=-420.66$   $\sigma_M=-149.39$   $\tau=38.92$   $\sigma_{max}=-570.05$   
 Tensioni:  $\sigma_N=-420.66$   $\sigma_M=5.33$   $\tau=41.20$   $\tau_{max}=41.20$   
 Tensioni:  $\sigma_N=-420.66$   $\sigma_M=-149.39$   $\tau=38.92$   $\sigma_{ID,max}=574.02$

Asta n. 4354 (-15621 -15555) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7342.20 My,Ed=-106.81 Mz,Ed=-1.05  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.09+0.00=0.33  
 Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.07$  - Classe 3  
 Sollecitazioni:  $N=-7342.17$   $T_z=-21.76$   $M_y=-105.41$   $T_y=-1.57$   $M_z=-1.01$   $M_x=-22.70$   
 Tensioni:  $\sigma_N=-533.59$   $\sigma_M=-251.43$   $\tau=43.68$   $\sigma_{max}=-785.01$   
 Tensioni:  $\sigma_N=-533.59$   $\sigma_M=-3.11$   $\tau=46.50$   $\tau_{max}=46.50$   
 Tensioni:  $\sigma_N=-533.59$   $\sigma_M=-251.43$   $\tau=43.68$   $\sigma_{ID,max}=788.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4266.86$   $T_z=-33.39$   $M_y=-102.71$   $T_y=-1.08$   $M_x=-23.07$   
 $V,Ed=-1.08$   $V_c,Rd,Red=5723.29$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-33.39$   $V_c,Rd,Red=11446.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5787.45$   $T_z=-24.23$   $M_y=-60.84$   $T_y=-1.00$   $M_z=-1.69$   $M_x=-21.13$   
 Tensioni:  $\sigma_N=-420.60$   $\sigma_M=-149.04$   $\tau=40.66$   $\sigma_{max}=-569.64$   
 Tensioni:  $\sigma_N=-420.60$   $\sigma_M=-5.99$   $\tau=43.81$   $\tau_{max}=43.81$   
 Tensioni:  $\sigma_N=-420.60$   $\sigma_M=-149.04$   $\tau=40.66$   $\sigma_{ID,max}=573.97$

Asta n. 4354 (-15555 -15489) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7337.96$   $M_y,Ed=-103.77$   $M_z,Ed=-1.34$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.08+0.00=0.32$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7337.87$   $T_z=-55.94$   $M_y=-103.77$   $T_y=-3.21$   $M_z=-1.02$   $M_x=-26.98$   
 Tensioni:  $\sigma_N=-533.27$   $\sigma_M=-247.60$   $\tau=51.92$   $\sigma_{max}=-780.87$   
 Tensioni:  $\sigma_N=-533.27$   $\sigma_M=-3.13$   $\tau=59.17$   $\tau_{max}=59.17$   
 Tensioni:  $\sigma_N=-533.27$   $\sigma_M=-247.60$   $\tau=51.92$   $\sigma_{ID,max}=786.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4256.70$   $T_z=-71.70$   $M_y=-94.75$   $T_y=-2.54$   $M_x=-27.32$   
 $V,Ed=-2.54$   $V_c,Rd,Red=5685.78$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-71.70$   $V_c,Rd,Red=11371.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5791.08$   $T_z=-42.82$   $M_y=-58.89$   $T_y=-2.97$   $M_z=-1.68$   $M_x=-22.12$   
 Tensioni:  $\sigma_N=-420.86$   $\sigma_M=-144.40$   $\tau=42.57$   $\sigma_{max}=-565.26$   
 Tensioni:  $\sigma_N=-420.86$   $\sigma_M=-5.15$   $\tau=48.12$   $\tau_{max}=48.12$   
 Tensioni:  $\sigma_N=-420.86$   $\sigma_M=-144.40$   $\tau=42.57$   $\sigma_{ID,max}=570.05$

Asta n. 4354 (-15489 -15423) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7707.97$   $M_y,Ed=-82.47$   $M_z,Ed=-1.70$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.25+0.07+0.00=0.32$   
 Verifica ZZ:  $0.25+0.05+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7355.67$   $T_z=-86.29$   $M_y=-96.17$   $T_y=-1.53$   $M_z=-1.34$   $M_x=-30.26$   
 Tensioni:  $\sigma_N=-534.57$   $\sigma_M=-230.86$   $\tau=58.23$   $\sigma_{max}=-765.43$   
 Tensioni:  $\sigma_N=-534.57$   $\sigma_M=-4.76$   $\tau=69.41$   $\tau_{max}=69.41$   
 Tensioni:  $\sigma_N=-534.57$   $\sigma_M=-230.86$   $\tau=58.23$   $\sigma_{ID,max}=772.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$

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Sollecitazioni:  $N=-4251.85$   $T_z=-101.73$   $M_y=-83.04$   $T_y=-3.29$   $M_x=-30.56$   
 $V,Ed=-3.29$   $V_c,Rd,Red=5657.15$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-101.73$   $V_c,Rd,Red=11314.30$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5803.95$   $T_z=-60.18$   $M_y=-54.55$   $T_y=-3.24$   $M_z=-1.58$   $M_x=-22.95$   
 Tensioni:  $\sigma_N=-421.80$   $\sigma_M=-133.84$   $\tau=44.16$   $\sigma_{max}=-555.64$   
 Tensioni:  $\sigma_N=-421.80$   $\sigma_M=-4.84$   $\tau=51.96$   $\tau_{max}=51.96$   
 Tensioni:  $\sigma_N=421.80$   $\sigma_M=-133.84$   $\tau=44.16$   $\sigma_{ID,max}=560.88$

Asta n. 4354 (-15423 -15357) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7813.26$   $M_y,Ed=-73.95$   $M_z,Ed=-2.05$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.25+0.06+0.00=0.32$   
 Verifica ZZ:  $0.25+0.05+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7813.17$   $T_z=-83.46$   $M_y=-73.95$   $T_y=24.57$   $M_z=-2.05$   $M_x=-30.11$   
 Tensioni:  $\sigma_N=-567.82$   $\sigma_M=-181.12$   $\tau=57.94$   $\sigma_{max}=-748.94$   
 Tensioni:  $\sigma_N=-567.82$   $\sigma_M=-6.29$   $\tau=68.76$   $\tau_{max}=68.76$   
 Tensioni:  $\sigma_N=-567.82$   $\sigma_M=-180.16$   $\tau=62.81$   $\sigma_{ID,max}=755.84$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4267.11$   $T_z=-124.54$   $M_y=-68.53$   $T_y=4.73$   $M_x=-32.41$   
 $V,Ed=4.73$   $V_c,Rd,Red=5640.88$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-124.54$   $V_c,Rd,Red=11281.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5847.02$   $T_z=-73.48$   $M_y=-48.49$   $T_y=10.63$   $M_z=-1.42$   $M_x=-23.44$   
 Tensioni:  $\sigma_N=-424.93$   $\sigma_M=-119.02$   $\tau=45.11$   $\sigma_{max}=-543.95$   
 Tensioni:  $\sigma_N=-424.93$   $\sigma_M=-4.35$   $\tau=54.63$   $\tau_{max}=54.63$   
 Tensioni:  $\sigma_N=-424.93$   $\sigma_M=-119.02$   $\tau=45.11$   $\sigma_{ID,max}=549.53$

Asta n. 4354 (-15357 -15291) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8022.09$   $M_y,Ed=-63.49$   $M_z,Ed=15.06$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.26+0.05+0.02=0.33$   
 Verifica ZZ:  $0.26+0.04+0.02=0.32$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8022.09$   $T_z=-91.47$   $M_y=-54.83$   $T_y=154.20$   $M_z=15.06$   $M_x=-30.16$   
 Tensioni:  $\sigma_N=-583.00$   $\sigma_M=-182.21$   $\tau=58.04$   $\sigma_{max}=-765.21$   
 Tensioni:  $\sigma_N=-583.00$   $\sigma_M=-120.31$   $\tau=94.75$   $\tau_{max}=94.75$   
 Tensioni:  $\sigma_N=-583.00$   $\sigma_M=-175.10$   $\tau=88.60$   $\sigma_{ID,max}=773.48$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-8022.00$   $T_z=-85.65$   $M_y=-63.49$   $T_y=154.20$   $M_x=-30.16$   
 $V,Ed=154.20$   $V_c,Rd,Red=5660.70$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-85.65$   $V_c,Rd,Red=11321.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5956.04$   $T_z=-81.11$   $M_y=-36.36$   $T_y=105.49$   $M_z=11.71$   $M_x=-23.40$



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Tensioni:  $\sigma_N=-432.85$   $\sigma_M=-126.95$   $\tau=45.02$   $\sigma_{max}=-559.80$   
 Tensioni:  $\sigma_N=-432.85$   $\sigma_M=-79.80$   $\tau=70.14$   $\tau_{max}=70.14$   
 Tensioni:  $\sigma_N=-432.85$   $\sigma_M=-121.42$   $\tau=65.93$   $\sigma_{ID,max}=565.91$

Asta n. 4354 (-15291 -15225) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7349.67 My,Ed=-53.58 Mz,Ed=10.67  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.04+0.02=0.30  
 Verifica ZZ: 0.24+0.03+0.02=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7349.57 T<sub>z</sub>=92.10 M<sub>y</sub>=-44.86 T<sub>y</sub>=-127.48 M<sub>z</sub>=10.67 M<sub>x</sub>=-2.51  
 Tensioni:  $\sigma_N=-534.13$   $\sigma_M=-143.24$   $\tau=4.83$   $\sigma_{max}=-677.37$   
 Tensioni:  $\sigma_N=-534.13$   $\sigma_M=98.44$   $\tau=35.19$   $\tau_{max}=35.19$   
 Tensioni:  $\sigma_N=-534.13$   $\sigma_M=-143.24$   $\tau=4.83$   $\sigma_{ID,max}=677.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
 Sollecitazioni: N=-7349.65 T<sub>z</sub>=87.33 M<sub>y</sub>=-52.04 T<sub>y</sub>=-127.48 M<sub>x</sub>=-2.51  
 V,Ed=-127.48 Vc,Rd,Red=5904.76 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=87.33 Vc,Rd,Red=11809.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5572.60 T<sub>z</sub>=68.07 M<sub>y</sub>=-32.39 T<sub>y</sub>=-93.38 M<sub>z</sub>=9.61 M<sub>x</sub>=16.28  
 Tensioni:  $\sigma_N=-404.99$   $\sigma_M=-110.16$   $\tau=31.32$   $\sigma_{max}=-515.14$   
 Tensioni:  $\sigma_N=-404.99$   $\sigma_M=-71.07$   $\tau=53.56$   $\tau_{max}=53.56$   
 Tensioni:  $\sigma_N=-404.99$   $\sigma_M=-110.16$   $\tau=31.32$   $\sigma_{ID,max}=517.99$

Asta n. 4354 (-15225 -15158) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7249.85 My,Ed=-63.70 Mz,Ed=-2.68  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.05+0.00=0.29  
 Verifica ZZ: 0.24+0.04+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7249.85 T<sub>z</sub>=81.70 M<sub>y</sub>=-63.70 T<sub>y</sub>=-13.09 M<sub>z</sub>=-2.68 M<sub>x</sub>=-2.61  
 Tensioni:  $\sigma_N=-526.88$   $\sigma_M=-159.27$   $\tau=5.01$   $\sigma_{max}=-686.15$   
 Tensioni:  $\sigma_N=-526.88$   $\sigma_M=8.23$   $\tau=15.60$   $\tau_{max}=15.60$   
 Tensioni:  $\sigma_N=-526.88$   $\sigma_M=-159.27$   $\tau=5.01$   $\sigma_{ID,max}=686.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-4918.77 T<sub>z</sub>=111.23 M<sub>y</sub>=-58.39 T<sub>y</sub>=1.42 M<sub>x</sub>=14.43  
 V,Ed=1.42 Vc,Rd,Red=5799.54 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=111.23 Vc,Rd,Red=11599.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5512.25 T<sub>z</sub>=60.37 M<sub>y</sub>=-43.38 T<sub>y</sub>=-5.46 M<sub>z</sub>=-1.38 M<sub>x</sub>=16.24  
 Tensioni:  $\sigma_N=-400.60$   $\sigma_M=-106.86$   $\tau=31.25$   $\sigma_{max}=-507.46$   
 Tensioni:  $\sigma_N=-400.60$   $\sigma_M=-4.22$   $\tau=39.08$   $\tau_{max}=39.08$   
 Tensioni:  $\sigma_N=-400.60$   $\sigma_M=-106.86$   $\tau=31.25$   $\sigma_{ID,max}=510.34$

Asta n. 4354 (-15158 -15090) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7210.76 My,Ed=-72.09 Mz,Ed=-2.26

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.06+0.00=0.30

Verifica ZZ: 0.23+0.05+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7210.76 T<sub>z</sub>=65.03 M<sub>y</sub>=-72.09 T<sub>y</sub>=3.40 M<sub>z</sub>=-1.93 M<sub>x</sub>=-4.03  
Tensioni:  $\sigma_N$ =-524.04  $\sigma_M$ =-176.32  $\tau$ =7.75  $\sigma_{max}$ =-700.36  
Tensioni:  $\sigma_N$ =-524.04  $\sigma_M$ =5.91  $\tau$ =16.18  $\tau_{max}$ =16.18  
Tensioni:  $\sigma_N$ =-524.04  $\sigma_M$ =-176.32  $\tau$ =7.75  $\sigma_{ID,max}$ =700.49
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-4914.79 T<sub>z</sub>=89.44 M<sub>y</sub>=-71.40 T<sub>y</sub>=7.66 M<sub>x</sub>=12.38  
V,Ed=7.66 Vc,Rd,Red=5817.65 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=89.44 Vc,Rd,Red=11635.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5493.72 T<sub>z</sub>=48.32 M<sub>y</sub>=-48.61 T<sub>y</sub>=4.80 M<sub>z</sub>=-1.58 M<sub>x</sub>=15.55  
Tensioni:  $\sigma_N$ =-399.25  $\sigma_M$ =-119.88  $\tau$ =29.91  $\sigma_{max}$ =-519.14  
Tensioni:  $\sigma_N$ =-399.25  $\sigma_M$ =-4.84  $\tau$ =36.18  $\tau_{max}$ =36.18  
Tensioni:  $\sigma_N$ =-399.25  $\sigma_M$ =-119.88  $\tau$ =29.91  $\sigma_{ID,max}$ =521.72

Asta n. 4354 (-15090 -15024) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7206.07 My,Ed=-77.36 Mz,Ed=-1.83

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.06+0.00=0.30

Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-6833.43 T<sub>z</sub>=47.83 M<sub>y</sub>=-89.52 T<sub>y</sub>=4.10 M<sub>z</sub>=-1.10 M<sub>x</sub>=-4.33  
Tensioni:  $\sigma_N$ =-496.62  $\sigma_M$ =-214.35  $\tau$ =8.34  $\sigma_{max}$ =-710.97  
Tensioni:  $\sigma_N$ =-496.62  $\sigma_M$ =3.37  $\tau$ =14.54  $\tau_{max}$ =14.54  
Tensioni:  $\sigma_N$ =-496.62  $\sigma_M$ =-214.35  $\tau$ =8.34  $\sigma_{ID,max}$ =711.12
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-4918.74 T<sub>z</sub>=57.23 M<sub>y</sub>=-81.68 T<sub>y</sub>=5.64 M<sub>x</sub>=8.80  
V,Ed=5.64 Vc,Rd,Red=5849.26 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=57.23 Vc,Rd,Red=11698.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5490.76 T<sub>z</sub>=32.29 M<sub>y</sub>=-52.06 T<sub>y</sub>=3.44 M<sub>z</sub>=-1.70 M<sub>x</sub>=-15.78  
Tensioni:  $\sigma_N$ =-399.04  $\sigma_M$ =-128.43  $\tau$ =30.36  $\sigma_{max}$ =-527.47  
Tensioni:  $\sigma_N$ =-399.04  $\sigma_M$ =5.22  $\tau$ =34.54  $\tau_{max}$ =34.54  
Tensioni:  $\sigma_N$ =-399.04  $\sigma_M$ =-128.43  $\tau$ =30.36  $\sigma_{ID,max}$ =530.08

Asta n. 4354 (-15024 -14958) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7214.73 My,Ed=-79.11 Mz,Ed=-1.38

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.06+0.00=0.30

Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7214.73$   $T_x=8.85$   $M_y=-79.11$   $T_y=1.51$   $M_z=-1.24$   $M_x=-10.00$   
 Tensioni:  $\sigma_N=-524.33$   $\sigma_M=-190.37$   $\tau=19.24$   $\sigma_{max}=-714.70$   
 Tensioni:  $\sigma_N=-524.33$   $\sigma_M=3.79$   $\tau=20.39$   $\tau_{max}=20.39$   
 Tensioni:  $\sigma_N=-524.33$   $\sigma_M=-190.37$   $\tau=19.24$   $\sigma_{ID,max}=715.47$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4918.49$   $T_x=18.63$   $M_y=-87.95$   $T_y=2.86$   $M_x=4.15$   
 $V,Ed=2.86$   $Vc,Rd,Red=5890.27$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=18.63$   $Vc,Rd,Red=11780.50$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5488.60$   $T_x=16.36$   $M_y=-53.33$   $M_z=-1.75$   $M_x=-16.63$   
 Tensioni:  $\sigma_N=-398.88$   $\sigma_M=-131.56$   $\tau=32.01$   $\sigma_{max}=-530.44$   
 Tensioni:  $\sigma_N=-398.88$   $\sigma_M=5.35$   $\tau=34.13$   $\tau_{max}=34.13$   
 Tensioni:  $\sigma_N=-398.88$   $\sigma_M=-131.56$   $\tau=32.01$   $\sigma_{ID,max}=533.33$

Asta n. 4354 (-14958 -14892) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7234.38$   $M_y,Ed=-78.96$   $M_z,Ed=-1.26$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.06+0.00=0.30$   
 Verifica ZZ:  $0.23+0.05+0.00=0.29$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7234.29$   $T_x=-18.86$   $M_y=-78.96$   $M_z=-1.23$   $M_x=-13.66$   
 Tensioni:  $\sigma_N=-525.75$   $\sigma_M=-189.99$   $\tau=26.28$   $\sigma_{max}=-715.73$   
 Tensioni:  $\sigma_N=-525.75$   $\sigma_M=-4.35$   $\tau=28.72$   $\tau_{max}=28.72$   
 Tensioni:  $\sigma_N=-525.75$   $\sigma_M=-189.99$   $\tau=26.28$   $\sigma_{ID,max}=717.18$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-6848.98$   $T_x=-29.66$   $M_y=-88.84$   $M_x=-13.32$   
 $V,Ed=-29.66$   $Vc,Rd,Red=11618.60$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5485.68$   $T_x=-20.24$   $M_y=-53.29$   $T_y=-1.05$   $M_z=-1.75$   $M_x=-17.69$   
 Tensioni:  $\sigma_N=-398.67$   $\sigma_M=-131.49$   $\tau=34.03$   $\sigma_{max}=-530.16$   
 Tensioni:  $\sigma_N=-398.67$   $\sigma_M=-5.38$   $\tau=36.66$   $\tau_{max}=36.66$   
 Tensioni:  $\sigma_N=-398.67$   $\sigma_M=-131.49$   $\tau=34.03$   $\sigma_{ID,max}=533.43$

Asta n. 4354 (-14892 -14826) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7268.00$   $M_y,Ed=-75.93$   $M_z,Ed=-1.51$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.06+0.00=0.30$   
 Verifica ZZ:  $0.24+0.05+0.00=0.29$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7267.91$   $T_x=-48.33$   $M_y=-75.93$   $T_y=-2.01$   $M_z=-1.31$   $M_x=-17.02$   
 Tensioni:  $\sigma_N=-528.19$   $\sigma_M=-183.16$   $\tau=32.75$   $\sigma_{max}=-711.35$   
 Tensioni:  $\sigma_N=-528.19$   $\sigma_M=-4.02$   $\tau=39.02$   $\tau_{max}=39.02$   
 Tensioni:  $\sigma_N=-528.19$   $\sigma_M=-183.16$   $\tau=32.75$   $\sigma_{ID,max}=713.61$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4227.14$   $T_x=-68.35$   $M_y=-75.68$   $M_x=-14.10$   
 $V,Ed=-68.35$   $Vc,Rd,Red=11604.90$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3

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Sollecitazioni:  $N=-5483.54$   $T_z=-36.76$   $M_y=-51.69$   $T_y=-3.22$   $M_z=-1.72$   $M_x=-18.79$   
Tensioni:  $\sigma_N=-398.51$   $\sigma_M=-127.61$   $\tau=36.15$   $\sigma_{max}=-526.12$   
Tensioni:  $\sigma_N=-398.51$   $\sigma_M=-5.27$   $\tau=40.92$   $\tau_{max}=40.92$   
Tensioni:  $\sigma_N=-398.51$   $\sigma_M=-127.61$   $\tau=36.15$   $\sigma_{ID,max}=529.83$

Asta n. 4354 (-14826 -14760) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7324.37$   $M_y,Ed=-69.35$   $M_z,Ed=-1.60$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$   
Verifica YY:  $0.24+0.06+0.00=0.30$   
Verifica ZZ:  $0.24+0.04+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-7324.28$   $T_z=-74.95$   $M_y=-69.35$   $T_y=1.26$   $M_z=-1.60$   $M_x=-19.64$   
Tensioni:  $\sigma_N=-532.29$   $\sigma_M=-168.73$   $\tau=37.78$   $\sigma_{max}=-701.01$   
Tensioni:  $\sigma_N=-532.29$   $\sigma_M=-4.92$   $\tau=47.50$   $\tau_{max}=47.50$   
Tensioni:  $\sigma_N=-532.29$   $\sigma_M=-168.73$   $\tau=37.78$   $\sigma_{ID,max}=704.06$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-5925.46$   $T_z=-99.87$   $M_y=-72.55$   $T_y=-5.97$   $M_x=-17.71$   
 $V,Ed=-5.97$   $V_c,Rd,Red=5770.64$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-99.87$   $V_c,Rd,Red=11541.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-5486.92$   $T_z=-52.70$   $M_y=-47.88$   $T_y=-3.73$   $M_z=-1.61$   $M_x=-19.72$   
Tensioni:  $\sigma_N=-398.76$   $\sigma_M=-118.27$   $\tau=37.94$   $\sigma_{max}=-517.03$   
Tensioni:  $\sigma_N=-398.76$   $\sigma_M=-4.93$   $\tau=44.77$   $\tau_{max}=44.77$   
Tensioni:  $\sigma_N=-398.76$   $\sigma_M=-118.27$   $\tau=37.94$   $\sigma_{ID,max}=521.19$

Asta n. 4354 (-14760 -14694) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7434.69$   $M_y,Ed=-59.70$   $M_z,Ed=-1.91$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$   
Verifica YY:  $0.24+0.05+0.00=0.29$   
Verifica ZZ:  $0.24+0.04+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-7434.60$   $T_z=-91.73$   $M_y=-59.70$   $T_y=23.50$   $M_z=-1.91$   $M_x=-21.07$   
Tensioni:  $\sigma_N=-540.30$   $\sigma_M=-147.13$   $\tau=40.54$   $\sigma_{max}=-687.43$   
Tensioni:  $\sigma_N=-540.30$   $\sigma_M=-5.87$   $\tau=52.43$   $\tau_{max}=52.43$   
Tensioni:  $\sigma_N=-540.30$   $\sigma_M=-147.13$   $\tau=40.54$   $\sigma_{ID,max}=691.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4246.41$   $T_z=-121.89$   $M_y=-49.79$   $T_y=6.75$   $M_x=-19.78$   
 $V,Ed=6.75$   $V_c,Rd,Red=5752.36$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-121.89$   $V_c,Rd,Red=11504.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-5515.60$   $T_z=-65.01$   $M_y=-42.30$   $T_y=7.73$   $M_z=-1.41$   $M_x=-20.27$   
Tensioni:  $\sigma_N=-400.84$   $\sigma_M=-104.45$   $\tau=39.01$   $\sigma_{max}=-505.29$   
Tensioni:  $\sigma_N=-400.84$   $\sigma_M=-4.33$   $\tau=47.44$   $\tau_{max}=47.44$   
Tensioni:  $\sigma_N=-400.84$   $\sigma_M=-104.45$   $\tau=39.01$   $\sigma_{ID,max}=509.79$

Asta n. 4354 (-14694 -14628) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7639.99 My,Ed=-48.30 Mz,Ed=14.26  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.25+0.04+0.02=0.31  
 Verifica ZZ: 0.25+0.03+0.02=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7639.99 Tz=-101.40 My=-38.67 Ty=145.49 Mz=14.26 Mx=-21.14  
 Tensioni:  $\sigma_N=-555.23$   $\sigma_M=-141.37$   $\tau=40.68$   $\sigma_{max}=-696.60$   
 Tensioni:  $\sigma_N=-555.23$   $\sigma_M=-84.86$   $\tau=75.32$   $\tau_{max}=75.32$   
 Tensioni:  $\sigma_N=-555.23$   $\sigma_M=-134.64$   $\tau=69.51$   $\sigma_{ID,max}=700.30$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
 Sollecitazioni: N=-7639.90 Tz=-95.58 My=-48.30 Ty=145.49 Mx=-21.14  
 V,Ed=145.49 Vc,Rd,Red=5740.32 V,Ed/Vc,Rd,Red=0.03
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-95.58 Vc,Rd,Red=11480.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5603.88 Tz=-72.90 My=-30.72 Ty=92.44 Mz=10.32 Mx=-20.25  
 Tensioni:  $\sigma_N=-407.26$   $\sigma_M=-108.77$   $\tau=38.96$   $\sigma_{max}=-516.02$   
 Tensioni:  $\sigma_N=-407.26$   $\sigma_M=-67.42$   $\tau=60.97$   $\tau_{max}=60.97$   
 Tensioni:  $\sigma_N=-407.26$   $\sigma_M=-103.89$   $\tau=57.28$   $\sigma_{ID,max}=520.69$

Asta n. 4354 (-14628 -14560) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6979.81 My,Ed=-39.50 Mz,Ed=9.69  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.03+0.01=0.27  
 Verifica ZZ: 0.23+0.03+0.01=0.27
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6979.72 Tz=112.31 My=-28.81 Ty=-117.18 Mz=9.69 Mx=5.09  
 Tensioni:  $\sigma_N=-507.25$   $\sigma_M=-102.02$   $\tau=9.79$   $\sigma_{max}=-609.26$   
 Tensioni:  $\sigma_N=-507.25$   $\sigma_M=-63.21$   $\tau=37.70$   $\tau_{max}=37.70$   
 Tensioni:  $\sigma_N=-507.25$   $\sigma_M=-102.02$   $\tau=9.79$   $\sigma_{ID,max}=609.50$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
 Sollecitazioni: N=-6979.79 Tz=107.55 My=-37.60 Ty=-117.18 Mx=5.09  
 V,Ed=-117.18 Vc,Rd,Red=5881.98 V,Ed/Vc,Rd,Red=0.02
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=107.55 Vc,Rd,Red=11764.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5201.17 Tz=80.80 My=-26.61 Ty=-85.66 Mz=8.84 Mx=15.91  
 Tensioni:  $\sigma_N=-377.99$   $\sigma_M=-93.84$   $\tau=30.62$   $\sigma_{max}=-471.83$   
 Tensioni:  $\sigma_N=-377.99$   $\sigma_M=-58.39$   $\tau=51.02$   $\tau_{max}=51.02$   
 Tensioni:  $\sigma_N=-377.99$   $\sigma_M=-89.67$   $\tau=47.60$   $\sigma_{ID,max}=474.87$

Asta n. 4354 (-14560 -14490) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6893.74 My,Ed=-52.12 Mz,Ed=-2.53  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.04+0.00=0.27  
 Verifica ZZ: 0.22+0.03+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6893.74$   $T_x=102.75$   $M_y=-52.12$   $T_y=-11.38$   $M_z=-2.53$   $M_x=4.97$   
 Tensioni:  $\sigma_N=-501.00$   $\sigma_M=-131.51$   $\tau=9.56$   $\sigma_{max}=-632.51$   
 Tensioni:  $\sigma_N=-501.00$   $\sigma_M=-7.77$   $\tau=22.88$   $\tau_{max}=22.88$   
 Tensioni:  $\sigma_N=-501.00$   $\sigma_M=-131.51$   $\tau=9.56$   $\sigma_{ID,max}=632.73$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4545.87$   $T_x=135.90$   $M_y=-48.95$   $T_y=2.59$   $M_x=24.54$   
 $V,Ed=2.59$   $Vc,Rd,Red=5710.32$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=135.90$   $Vc,Rd,Red=11420.60$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5142.34$   $T_x=73.01$   $M_y=-39.65$   $T_y=-5.09$   $M_z=-1.31$   $M_x=15.89$   
 Tensioni:  $\sigma_N=-373.72$   $\sigma_M=-97.85$   $\tau=30.58$   $\sigma_{max}=-471.57$   
 Tensioni:  $\sigma_N=-373.72$   $\sigma_M=-4.01$   $\tau=40.05$   $\tau_{max}=40.05$   
 Tensioni:  $\sigma_N=-373.72$   $\sigma_M=-97.85$   $\tau=30.58$   $\sigma_{ID,max}=474.54$

Asta n. 4354 (-14490 -14424) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6861.12$   $M_y,Ed=-62.85$   $M_z,Ed=-2.14$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22+0.05+0.00=0.28$   
 Verifica ZZ:  $0.22+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6861.12$   $T_x=84.55$   $M_y=-62.85$   $T_y=3.54$   $M_z=-1.80$   $M_x=3.50$   
 Tensioni:  $\sigma_N=-498.63$   $\sigma_M=-154.11$   $\tau=6.73$   $\sigma_{max}=-652.74$   
 Tensioni:  $\sigma_N=-498.63$   $\sigma_M=-5.51$   $\tau=17.69$   $\tau_{max}=17.69$   
 Tensioni:  $\sigma_N=-498.63$   $\sigma_M=-154.11$   $\tau=6.73$   $\sigma_{ID,max}=652.85$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.02$   
 Sollecitazioni:  $N=-5479.55$   $T_x=114.98$   $M_y=-69.07$   $T_y=7.02$   $M_x=11.59$   
 $V,Ed=7.02$   $Vc,Rd,Red=5824.57$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=114.98$   $Vc,Rd,Red=11649.10$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5118.29$   $T_x=60.05$   $M_y=-46.16$   $T_y=4.30$   $M_z=-1.50$   $M_x=15.34$   
 Tensioni:  $\sigma_N=-371.97$   $\sigma_M=-113.83$   $\tau=29.53$   $\sigma_{max}=-485.80$   
 Tensioni:  $\sigma_N=-371.97$   $\sigma_M=-4.59$   $\tau=37.31$   $\tau_{max}=37.31$   
 Tensioni:  $\sigma_N=-371.97$   $\sigma_M=-113.83$   $\tau=29.53$   $\sigma_{ID,max}=488.49$

Asta n. 4354 (-14424 -14358) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6857.35$   $M_y,Ed=-70.58$   $M_z,Ed=-1.70$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22+0.06+0.00=0.28$   
 Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6857.35$   $T_x=58.87$   $M_y=-70.58$   $T_y=3.54$   $M_z=-1.35$   
 Tensioni:  $\sigma_N=-498.35$   $\sigma_M=-170.74$   $\tau=0.00$   $\sigma_{max}=-669.09$   
 Tensioni:  $\sigma_N=-498.35$   $\sigma_M=-4.16$   $\tau=7.63$   $\tau_{max}=7.63$   
 Tensioni:  $\sigma_N=-498.35$   $\sigma_M=-170.74$   $\tau=0.00$   $\sigma_{ID,max}=669.09$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.00$

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Sollecitazioni:  $N=-5479.55$   $T_z=84.37$   $M_y=-80.39$   $T_y=5.31$   $M_x=7.95$   
 $V,Ed=5.31$   $V_c,Rd,Red=5856.71$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=84.37$   $V_c,Rd,Red=11713.40$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5105.21$   $T_z=44.40$   $M_y=-51.03$   $T_y=2.68$   $M_z=-1.62$   $M_x=14.41$   
Tensioni:  $\sigma_N=-371.02$   $\sigma_M=-125.69$   $\tau=27.73$   $\sigma_{max}=-496.71$   
Tensioni:  $\sigma_N=-371.02$   $\sigma_M=-4.96$   $\tau=33.49$   $\tau_{max}=33.49$   
Tensioni:  $\sigma_N=-371.02$   $\sigma_M=-125.69$   $\tau=27.73$   $\sigma_{ID,max}=499.03$

Asta n. 4354 (-14358 -14292) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6863.64$   $M_y,Ed=-74.66$   $M_z,Ed=-1.29$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.06+0.00=0.28$   
Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6863.64$   $T_z=28.29$   $M_y=-74.66$   $T_y=1.37$   $M_z=-1.16$   $M_x=-2.58$   
Tensioni:  $\sigma_N=-498.81$   $\sigma_M=-179.62$   $\tau=4.96$   $\sigma_{max}=-678.43$   
Tensioni:  $\sigma_N=-498.81$   $\sigma_M=3.55$   $\tau=8.63$   $\tau_{max}=8.63$   
Tensioni:  $\sigma_N=-498.81$   $\sigma_M=-179.62$   $\tau=4.96$   $\sigma_{ID,max}=678.49$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-5474.52$   $T_z=44.83$   $M_y=-89.84$   $T_y=2.82$   $M_x=3.25$   
 $V,Ed=2.82$   $V_c,Rd,Red=5898.18$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=44.83$   $V_c,Rd,Red=11796.40$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5090.33$   $T_z=26.79$   $M_y=-53.66$   $M_z=-1.65$   $M_x=13.28$   
Tensioni:  $\sigma_N=-369.94$   $\sigma_M=-132.00$   $\tau=25.55$   $\sigma_{max}=-501.94$   
Tensioni:  $\sigma_N=-369.94$   $\sigma_M=-5.86$   $\tau=29.03$   $\tau_{max}=29.03$   
Tensioni:  $\sigma_N=-369.94$   $\sigma_M=-132.00$   $\tau=25.55$   $\sigma_{ID,max}=503.89$

Asta n. 4354 (-14292 -14226) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6878.56$   $M_y,Ed=-74.93$   $M_z,Ed=-1.20$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.06+0.00=0.29$   
Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.04$  - Classe 3  
Sollecitazioni:  $N=-6878.51$   $T_z=-1.14$   $M_y=-74.94$   $M_z=-1.17$   $M_x=-6.30$   
Tensioni:  $\sigma_N=-499.89$   $\sigma_M=-180.31$   $\tau=12.13$   $\sigma_{max}=-680.21$   
Tensioni:  $\sigma_N=-499.89$   $\sigma_M=-4.12$   $\tau=12.27$   $\tau_{max}=12.27$   
Tensioni:  $\sigma_N=-499.89$   $\sigma_M=-180.31$   $\tau=12.13$   $\sigma_{ID,max}=680.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4377.31$   $T_z=-1.04$   $M_y=-77.28$   $T_y=-4.90$   $M_x=8.07$   
 $V,Ed=-4.90$   $V_c,Rd,Red=5855.65$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-1.04$   $V_c,Rd,Red=11711.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.04$  - Classe 3  
Sollecitazioni:  $N=-5072.89$   $T_z=14.52$   $M_y=-53.92$   $T_y=-1.57$   $M_z=-1.66$   $M_x=-14.22$

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Tensioni:  $\sigma_N=-368.67$   $\sigma_M=-132.65$   $\tau=27.37$   $\sigma_{max}=-501.32$   
 Tensioni:  $\sigma_N=-368.67$   $\sigma_M=5.09$   $\tau=29.25$   $\tau_{max}=29.25$   
 Tensioni:  $\sigma_N=-368.67$   $\sigma_M=-132.65$   $\tau=27.37$   $\sigma_{ID,max}=503.56$

Asta n. 4354 (-14226 -14160) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-6905.59 My,Ed=-74.32 Mz,Ed=-1.41  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.22+0.06+0.00=0.29

Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-6905.50 Tz=-29.10 My=-74.32 Ty=-1.87 Mz=-1.22 Mx=-9.72

Tensioni:  $\sigma_N=-501.85$   $\sigma_M=-179.05$   $\tau=18.71$   $\sigma_{max}=-680.91$

Tensioni:  $\sigma_N=-501.85$   $\sigma_M=-3.75$   $\tau=22.48$   $\tau_{max}=22.48$

Tensioni:  $\sigma_N=-501.85$   $\sigma_M=-179.05$   $\tau=18.71$   $\sigma_{ID,max}=681.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10

Sollecitazioni: N=-3763.88 Tz=-43.78 My=-78.02 Ty=-2.23 Mx=-9.90

V,Ed=-2.23 Vc,Rd,Red=5839.56 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-43.78 Vc,Rd,Red=11679.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-5054.69 Tz=-24.75 My=-53.67 Ty=-3.45 Mz=-1.66 Mx=-15.59

Tensioni:  $\sigma_N=-367.35$   $\sigma_M=-132.07$   $\tau=29.99$   $\sigma_{max}=-499.42$

Tensioni:  $\sigma_N=-367.35$   $\sigma_M=-5.10$   $\tau=33.20$   $\tau_{max}=33.20$

Tensioni:  $\sigma_N=-367.35$   $\sigma_M=-132.07$   $\tau=29.99$   $\sigma_{ID,max}=502.11$

Asta n. 4354 (-14160 -14094) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-6953.76 My,Ed=-70.04 Mz,Ed=-1.47  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.06+0.00=0.28

Verifica ZZ: 0.23+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-6953.67 Tz=-55.04 My=-70.04 Ty=1.09 Mz=-1.47 Mx=-12.42

Tensioni:  $\sigma_N=-505.35$   $\sigma_M=-169.86$   $\tau=23.89$   $\sigma_{max}=-675.22$

Tensioni:  $\sigma_N=-505.35$   $\sigma_M=-4.49$   $\tau=31.03$   $\tau_{max}=31.03$

Tensioni:  $\sigma_N=-505.35$   $\sigma_M=-169.86$   $\tau=23.89$   $\sigma_{ID,max}=676.48$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10

Sollecitazioni: N=-3761.55 Tz=-74.79 My=-69.57 Ty=-3.06 Mx=-13.30

V,Ed=-3.06 Vc,Rd,Red=5809.56 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-74.79 Vc,Rd,Red=11619.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-5040.30 Tz=-39.97 My=-51.20 Ty=-4.33 Mz=-1.55 Mx=-16.71

Tensioni:  $\sigma_N=-366.30$   $\sigma_M=-125.87$   $\tau=32.16$   $\sigma_{max}=-492.17$

Tensioni:  $\sigma_N=-366.30$   $\sigma_M=-4.76$   $\tau=37.34$   $\tau_{max}=37.34$

Tensioni:  $\sigma_N=-366.30$   $\sigma_M=-125.87$   $\tau=32.16$   $\sigma_{ID,max}=495.31$

Asta n. 4354 (-14094 -14026) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7052.67 My,Ed=-62.73 Mz,Ed=-1.72



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Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.05+0.00=0.28

Verifica ZZ: 0.23+0.04+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7052.57 T<sub>z</sub>=-73.04 M<sub>y</sub>=-62.73 T<sub>y</sub>=21.67 M<sub>z</sub>=-1.72 M<sub>x</sub>=-13.92  
Tensioni:  $\sigma_N$ =-512.54  $\sigma_M$ =-153.59  $\tau$ =26.78  $\sigma_{max}$ =-666.13  
Tensioni:  $\sigma_N$ =-512.54  $\sigma_M$ =-5.28  $\tau$ =36.25  $\tau_{max}$ =36.25  
Tensioni:  $\sigma_N$ =-512.54  $\sigma_M$ =-153.59  $\tau$ =26.78  $\sigma_{ID,max}$ =667.74
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
Sollecitazioni: N=-3773.14 T<sub>z</sub>=-97.17 M<sub>y</sub>=-58.32 T<sub>y</sub>=3.00 M<sub>z</sub>=-15.26  
V,Ed=3.00 Vc,Rd,Red=5792.25 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-97.17 Vc,Rd,Red=11584.50 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5047.68 T<sub>z</sub>=-52.86 M<sub>y</sub>=-46.94 T<sub>y</sub>=4.74 M<sub>z</sub>=-1.35 M<sub>x</sub>=-17.39  
Tensioni:  $\sigma_N$ =-366.84  $\sigma_M$ =-115.13  $\tau$ =33.46  $\sigma_{max}$ =-481.97  
Tensioni:  $\sigma_N$ =-366.84  $\sigma_M$ =-4.13  $\tau$ =40.31  $\tau_{max}$ =40.31  
Tensioni:  $\sigma_N$ =-366.84  $\sigma_M$ =-115.13  $\tau$ =33.46  $\sigma_{ID,max}$ =485.44

Asta n. 4354 (-14026 -13959) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7240.28 My,Ed=-53.55 Mz,Ed=13.01  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.04+0.02=0.30  
Verifica ZZ: 0.24+0.03+0.02=0.29
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7240.28 T<sub>z</sub>=-82.93 M<sub>y</sub>=-45.73 T<sub>y</sub>=132.06 M<sub>z</sub>=13.01 M<sub>x</sub>=-14.11  
Tensioni:  $\sigma_N$ =-526.18  $\sigma_M$ =-153.56  $\tau$ =27.15  $\sigma_{max}$ =-679.74  
Tensioni:  $\sigma_N$ =-526.18  $\sigma_M$ =-100.34  $\tau$ =58.60  $\tau_{max}$ =58.60  
Tensioni:  $\sigma_N$ =-526.18  $\sigma_M$ =-153.56  $\tau$ =27.15  $\sigma_{ID,max}$ =681.37
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=-7240.19 T<sub>z</sub>=-77.10 M<sub>y</sub>=-53.55 T<sub>y</sub>=132.06 M<sub>z</sub>=-14.11  
V,Ed=132.06 Vc,Rd,Red=5802.36 V,Ed/Vc,Rd,Red=0.02
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-77.10 Vc,Rd,Red=11604.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5108.26 T<sub>z</sub>=-61.04 M<sub>y</sub>=-37.45 T<sub>y</sub>=75.67 M<sub>z</sub>=8.53 M<sub>x</sub>=-17.40  
Tensioni:  $\sigma_N$ =-371.24  $\sigma_M$ =-118.25  $\tau$ =33.49  $\sigma_{max}$ =-489.49  
Tensioni:  $\sigma_N$ =-371.24  $\sigma_M$ =-82.19  $\tau$ =51.51  $\tau_{max}$ =51.51  
Tensioni:  $\sigma_N$ =-371.24  $\sigma_M$ =-118.25  $\tau$ =33.49  $\sigma_{ID,max}$ =492.91

Asta n. 4354 (-13959 -13889) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6548.79 My,Ed=-46.23 Mz,Ed=9.06  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.21+0.04+0.01=0.26  
Verifica ZZ: 0.21+0.03+0.01=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6548.70$   $T_x=103.29$   $M_y=-36.42$   $T_y=-108.92$   $M_z=9.06$   $M_x=8.05$   
 Tensioni:  $\sigma_N=-475.92$   $\sigma_M=-117.70$   $\tau=15.49$   $\sigma_{max}=-593.63$   
 Tensioni:  $\sigma_N=-475.92$   $\sigma_M=-79.92$   $\tau=41.43$   $\tau_{max}=41.43$   
 Tensioni:  $\sigma_N=-475.92$   $\sigma_M=-117.70$   $\tau=15.49$   $\sigma_{ID,max}=594.23$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.08$   
 Sollecitazioni:  $N=-6548.77$   $T_x=98.53$   $M_y=-44.49$   $T_y=-108.92$   $M_x=8.05$   
 $V,Ed=-108.92$   $V_c,Rd,Red=5855.86$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=98.53$   $V_c,Rd,Red=11711.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4675.55$   $T_x=83.78$   $M_y=-33.21$   $T_y=-76.65$   $M_z=7.97$   $M_x=12.98$   
 Tensioni:  $\sigma_N=-339.79$   $\sigma_M=-106.28$   $\tau=24.99$   $\sigma_{max}=-446.08$   
 Tensioni:  $\sigma_N=-339.79$   $\sigma_M=-72.88$   $\tau=43.24$   $\tau_{max}=43.24$   
 Tensioni:  $\sigma_N=-339.79$   $\sigma_M=-106.28$   $\tau=24.99$   $\sigma_{ID,max}=448.17$

Asta n. 4354 (-13889 -13821) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6461.14$   $M_y,Ed=-57.73$   $M_z,Ed=-2.37$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.21+0.05+0.00=0.26$   
 Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6461.14$   $T_x=92.95$   $M_y=-57.73$   $T_y=-11.80$   $M_z=-2.37$   $M_x=7.91$   
 Tensioni:  $\sigma_N=-469.56$   $\sigma_M=-144.12$   $\tau=15.21$   $\sigma_{max}=-613.68$   
 Tensioni:  $\sigma_N=-469.56$   $\sigma_M=-7.27$   $\tau=27.26$   $\tau_{max}=27.26$   
 Tensioni:  $\sigma_N=-469.56$   $\sigma_M=-144.12$   $\tau=15.21$   $\sigma_{ID,max}=614.25$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4103.53$   $T_x=122.94$   $M_y=-63.77$   $T_y=1.79$   $M_x=31.03$   
 $V,Ed=1.79$   $V_c,Rd,Red=5653.07$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=122.94$   $V_c,Rd,Red=11306.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4613.15$   $T_x=75.37$   $M_y=-47.31$   $T_y=-5.53$   $M_z=-1.21$   $M_x=12.96$   
 Tensioni:  $\sigma_N=-335.26$   $\sigma_M=-115.50$   $\tau=24.93$   $\sigma_{max}=-450.76$   
 Tensioni:  $\sigma_N=-335.26$   $\sigma_M=-3.71$   $\tau=34.70$   $\tau_{max}=34.70$   
 Tensioni:  $\sigma_N=-335.26$   $\sigma_M=-115.50$   $\tau=24.93$   $\sigma_{ID,max}=452.83$

Asta n. 4354 (-13821 -13755) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6419.25$   $M_y,Ed=-67.47$   $M_z,Ed=-1.95$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.21+0.05+0.00=0.27$   
 Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6419.25$   $T_x=76.18$   $M_y=-67.47$   $T_y=2.44$   $M_z=-1.72$   $M_x=6.45$   
 Tensioni:  $\sigma_N=-466.51$   $\sigma_M=-164.70$   $\tau=12.42$   $\sigma_{max}=-631.21$   
 Tensioni:  $\sigma_N=-466.51$   $\sigma_M=-5.27$   $\tau=22.29$   $\tau_{max}=22.29$   
 Tensioni:  $\sigma_N=-466.51$   $\sigma_M=-164.70$   $\tau=12.42$   $\sigma_{ID,max}=631.58$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4093.73$   $T_x=101.19$   $M_y=-78.22$   $T_y=6.43$   $M_x=28.98$

V,Ed=6.43 Vc,Rd,Red=5671.14 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=101.19 Vc,Rd,Red=11342.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4577.61 T<sub>z</sub>=62.10 M<sub>y</sub>=-54.21 T<sub>y</sub>=3.18 M<sub>z</sub>=-1.38 M<sub>x</sub>=12.48  
Tensioni:  $\sigma_N$ =-332.68  $\sigma_M$ =-132.35  $\tau$ =24.02  $\sigma_{max}$ =-465.03  
Tensioni:  $\sigma_N$ =-332.68  $\sigma_M$ =-4.24  $\tau$ =32.07  $\tau_{max}$ =32.07  
Tensioni:  $\sigma_N$ =-332.68  $\sigma_M$ =-132.35  $\tau$ =24.02  $\sigma_{ID,max}$ =466.89

Asta n. 4354 (-13755 -13689) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6402.88 M<sub>y</sub>,Ed=-74.09 M<sub>z</sub>,Ed=-1.58  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-5917.75 T<sub>z</sub>=63.57 M<sub>y</sub>=-89.74 T<sub>y</sub>=2.96 M<sub>z</sub>=-1.02 M<sub>x</sub>=5.87  
Tensioni:  $\sigma_N$ =-430.07  $\sigma_M$ =-214.59  $\tau$ =11.29  $\sigma_{max}$ =-644.66  
Tensioni:  $\sigma_N$ =-430.07  $\sigma_M$ =-3.12  $\tau$ =19.53  $\tau_{max}$ =19.53  
Tensioni:  $\sigma_N$ =-430.07  $\sigma_M$ =-214.59  $\tau$ =11.29  $\sigma_{ID,max}$ =644.95

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4910.04 T<sub>z</sub>=70.53 M<sub>y</sub>=-92.78 T<sub>y</sub>=4.71 M<sub>x</sub>=11.03  
V,Ed=4.71 Vc,Rd,Red=5829.54 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=70.53 Vc,Rd,Red=11659.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4549.23 T<sub>z</sub>=43.84 M<sub>y</sub>=-59.18 T<sub>y</sub>=1.89 M<sub>z</sub>=-1.47 M<sub>x</sub>=11.69  
Tensioni:  $\sigma_N$ =-330.61  $\sigma_M$ =-144.35  $\tau$ =22.49  $\sigma_{max}$ =-474.96  
Tensioni:  $\sigma_N$ =-330.61  $\sigma_M$ =-4.52  $\tau$ =28.18  $\tau_{max}$ =28.18  
Tensioni:  $\sigma_N$ =-330.61  $\sigma_M$ =-144.35  $\tau$ =22.49  $\sigma_{ID,max}$ =476.56

Asta n. 4354 (-13689 -13623) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6394.86 M<sub>y</sub>,Ed=-77.19 M<sub>z</sub>,Ed=-1.18  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-6394.86 T<sub>z</sub>=20.01 M<sub>y</sub>=-77.19 M<sub>z</sub>=-1.10  
Tensioni:  $\sigma_N$ =-464.74  $\sigma_M$ =-185.39  $\tau$ =0.00  $\sigma_{max}$ =-650.13  
Tensioni:  $\sigma_N$ =-464.74  $\sigma_M$ =-3.90  $\tau$ =2.59  $\tau_{max}$ =2.59  
Tensioni:  $\sigma_N$ =-464.74  $\sigma_M$ =-185.39  $\tau$ =0.00  $\sigma_{ID,max}$ =650.13

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4889.36 T<sub>z</sub>=32.21 M<sub>y</sub>=-100.64 T<sub>y</sub>=2.14 M<sub>x</sub>=6.38  
V,Ed=2.14 Vc,Rd,Red=5870.55 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=32.21 Vc,Rd,Red=11741.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4517.23 T<sub>z</sub>=24.61 M<sub>y</sub>=-61.76 M<sub>z</sub>=-1.50 M<sub>x</sub>=10.76  
Tensioni:  $\sigma_N$ =-328.29  $\sigma_M$ =-150.51  $\tau$ =20.71  $\sigma_{max}$ =-478.80

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Tensioni:  $\sigma_N=-328.29$   $\sigma_M=-5.30$   $\tau=23.90$   $\tau_{max}=23.90$   
Tensioni:  $\sigma_N=-328.29$   $\sigma_M=-150.51$   $\tau=20.71$   $\sigma_{ID,max}=480.14$

Asta n. 4354 (-13623 -13557) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6394.14 My,Ed=-77.31 Mz,Ed=-1.11  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}$ ,  $\alpha_{Mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6394.04 Tz=-7.62 My=-77.31 Mz=-1.03 Mx=-3.21  
Tensioni:  $\sigma_N=-464.68$   $\sigma_M=-185.40$   $\tau=6.18$   $\sigma_{max}=-650.09$   
Tensioni:  $\sigma_N=-464.68$   $\sigma_M=-3.65$   $\tau=7.17$   $\tau_{max}=7.17$   
Tensioni:  $\sigma_N=-464.68$   $\sigma_M=-185.40$   $\tau=6.18$   $\sigma_{ID,max}=650.17$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU Xl=0.10  
Sollecitazioni: N=-3329.70 Tz=-15.10 My=-91.70 Ty=-1.05 Mx=10.79  
V,Ed=-1.05 Vc,Rd,Red=5831.64 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-15.10 Vc,Rd,Red=11663.30 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4481.38 Tz=-14.16 My=-61.92 Ty=-1.88 Mz=-1.56 Mx=-10.77  
Tensioni:  $\sigma_N=-325.68$   $\sigma_M=-151.08$   $\tau=20.72$   $\sigma_{max}=-476.76$   
Tensioni:  $\sigma_N=-325.68$   $\sigma_M=-4.77$   $\tau=22.56$   $\tau_{max}=22.56$   
Tensioni:  $\sigma_N=-325.68$   $\sigma_M=-151.08$   $\tau=20.72$   $\sigma_{ID,max}=478.11$

Asta n. 4354 (-13557 -13491) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6403.93 My,Ed=-75.65 Mz,Ed=-1.28  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}$ ,  $\alpha_{Mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6403.83 Tz=-36.89 My=-75.65 Ty=-2.15 Mz=-1.07 Mx=-6.57  
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-181.63$   $\tau=12.64$   $\sigma_{max}=-647.03$   
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-3.28$   $\tau=17.42$   $\tau_{max}=17.42$   
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-181.63$   $\tau=12.64$   $\sigma_{ID,max}=647.40$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-4017.43 Tz=-53.08 My=-93.74 Ty=-5.59 Mx=11.26  
V,Ed=-5.59 Vc,Rd,Red=5827.54 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-53.08 Vc,Rd,Red=11655.10 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4443.39 Tz=-28.77 My=-61.34 Ty=-3.82 Mz=-1.52 Mx=-12.32  
Tensioni:  $\sigma_N=-322.92$   $\sigma_M=-149.58$   $\tau=23.71$   $\sigma_{max}=-472.50$   
Tensioni:  $\sigma_N=-322.92$   $\sigma_M=-4.65$   $\tau=27.44$   $\tau_{max}=27.44$   
Tensioni:  $\sigma_N=-322.92$   $\sigma_M=-149.58$   $\tau=23.71$   $\sigma_{ID,max}=474.29$

Asta n. 4354 (-13491 -13421) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6432.13 My,Ed=-70.45 Mz,Ed=-1.26  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.21+0.06+0.00=0.27

Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-6432.04 T<sub>z</sub>=-63.52 M<sub>y</sub>=-70.45 M<sub>z</sub>=-1.26 M<sub>x</sub>=-9.18

Tensioni:  $\sigma_N=-467.44$   $\sigma_M=-170.12$   $\tau=17.67$   $\sigma_{max}=-637.56$

Tensioni:  $\sigma_N=-467.44$   $\sigma_M=-4.48$   $\tau=25.90$   $\tau_{max}=25.90$

Tensioni:  $\sigma_N=-467.44$   $\sigma_M=-170.12$   $\tau=17.67$   $\sigma_{ID,max}=638.30$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10

Sollecitazioni: N=-3986.90 T<sub>z</sub>=-84.84 M<sub>y</sub>=-84.08 T<sub>y</sub>=-6.87 M<sub>x</sub>=7.75

V,Ed=-6.87 Vc,Rd,Red=5858.47 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-84.84 Vc,Rd,Red=11716.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-4407.02 T<sub>z</sub>=-45.64 M<sub>y</sub>=-58.31 T<sub>y</sub>=-5.02 M<sub>z</sub>=-1.41 M<sub>x</sub>=-13.59

Tensioni:  $\sigma_N=-320.28$   $\sigma_M=-142.09$   $\tau=26.15$   $\sigma_{max}=-462.37$

Tensioni:  $\sigma_N=-320.28$   $\sigma_M=-4.33$   $\tau=32.06$   $\tau_{max}=32.06$

Tensioni:  $\sigma_N=-320.28$   $\sigma_M=-142.09$   $\tau=26.15$   $\sigma_{ID,max}=464.58$

Asta n. 4354 (-13421 -13349) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-6505.84 My,Ed=-62.19 Mz,Ed=-1.45

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.21+0.05+0.00=0.26

Verifica ZZ: 0.21+0.04+0.00=0.25

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-6505.74 T<sub>z</sub>=-80.25 M<sub>y</sub>=-62.19 T<sub>y</sub>=17.82 M<sub>z</sub>=-1.45 M<sub>x</sub>=-10.60

Tensioni:  $\sigma_N=-472.80$   $\sigma_M=-151.36$   $\tau=20.41$   $\sigma_{max}=-624.16$

Tensioni:  $\sigma_N=-472.80$   $\sigma_M=-4.46$   $\tau=30.81$   $\tau_{max}=30.81$

Tensioni:  $\sigma_N=-472.80$   $\sigma_M=-151.36$   $\tau=20.41$   $\sigma_{ID,max}=625.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10

Sollecitazioni: N=-3432.15 T<sub>z</sub>=-105.13 M<sub>y</sub>=-66.66 T<sub>y</sub>=3.07 M<sub>x</sub>=-12.97

V,Ed=3.07 Vc,Rd,Red=5812.41 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-105.13 Vc,Rd,Red=11624.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-4387.79 T<sub>z</sub>=-58.89 M<sub>y</sub>=-53.24 T<sub>y</sub>=1.93 M<sub>z</sub>=-1.21 M<sub>x</sub>=-14.31

Tensioni:  $\sigma_N=-318.88$   $\sigma_M=-129.46$   $\tau=27.54$   $\sigma_{max}=-448.34$

Tensioni:  $\sigma_N=-318.88$   $\sigma_M=-3.71$   $\tau=35.17$   $\tau_{max}=35.17$

Tensioni:  $\sigma_N=-318.88$   $\sigma_M=-129.46$   $\tau=27.54$   $\sigma_{ID,max}=450.87$

Asta n. 4354 (-13349 -13282) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-6659.25 My,Ed=-52.19 Mz,Ed=11.00

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.22+0.04+0.02=0.27

Verifica ZZ: 0.22+0.03+0.02=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

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Sollecitazioni:  $N=-6659.25$   $T_x=-89.33$   $M_y=-43.74$   $T_y=111.32$   $M_z=11.00$   $M_x=-10.69$

Tensioni:  $\sigma_N=-483.96$   $\sigma_M=-141.79$   $\tau=20.56$   $\sigma_{max}=-625.75$

Tensioni:  $\sigma_N=-483.96$   $\sigma_M=-95.99$   $\tau=47.07$   $\tau_{max}=47.07$

Tensioni:  $\sigma_N=-483.96$   $\sigma_M=-141.79$   $\tau=20.56$   $\sigma_{ID,max}=626.76$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-6659.16$   $T_x=-83.51$   $M_y=-52.19$   $T_y=111.32$   $M_z=-10.69$   
 $V,Ed=111.32$   $V_c,Rd,Red=5832.60$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-83.51$   $V_c,Rd,Red=11665.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4413.06$   $T_x=-66.41$   $M_y=-42.01$   $T_y=54.25$   $M_z=6.22$   $M_x=-14.27$

Tensioni:  $\sigma_N=-320.72$   $\sigma_M=-120.79$   $\tau=27.46$   $\sigma_{max}=-441.51$

Tensioni:  $\sigma_N=-320.72$   $\sigma_M=-92.20$   $\tau=40.38$   $\tau_{max}=40.38$

Tensioni:  $\sigma_N=-320.72$   $\sigma_M=-120.79$   $\tau=27.46$   $\sigma_{ID,max}=444.06$

Asta n. 4354 (-13282 -13213) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-5937.75$   $M_y,Ed=-45.48$   $M_z,Ed=8.23$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.19+0.04+0.01=0.24$

Verifica ZZ:  $0.19+0.03+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5937.75$   $T_x=103.39$   $M_y=-45.48$   $T_y=-97.79$   $M_z=-1.33$   $M_x=14.93$

Tensioni:  $\sigma_N=-431.52$   $\sigma_M=-111.64$   $\tau=28.73$   $\sigma_{max}=-543.17$

Tensioni:  $\sigma_N=-431.52$   $\sigma_M=-99.81$   $\tau=52.02$   $\tau_{max}=52.02$

Tensioni:  $\sigma_N=-431.52$   $\sigma_M=-111.02$   $\tau=48.12$   $\sigma_{ID,max}=548.90$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.08$   
Sollecitazioni:  $N=-5937.73$   $T_x=104.45$   $M_y=-43.64$   $T_y=-97.79$   $M_x=14.93$   
 $V,Ed=-97.79$   $V_c,Rd,Red=5795.11$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=104.45$   $V_c,Rd,Red=11590.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-3961.25$   $T_x=89.67$   $M_y=-37.84$   $T_y=-64.72$   $M_z=6.80$   $M_x=14.15$

Tensioni:  $\sigma_N=-287.88$   $\sigma_M=-113.03$   $\tau=27.22$   $\sigma_{max}=-400.91$

Tensioni:  $\sigma_N=-287.88$   $\sigma_M=-83.03$   $\tau=42.64$   $\tau_{max}=42.64$

Tensioni:  $\sigma_N=-287.88$   $\sigma_M=-109.82$   $\tau=40.05$   $\sigma_{ID,max}=403.71$

Asta n. 4354 (-13213 -13146) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-5846.47$   $M_y,Ed=-57.78$   $M_z,Ed=-2.07$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.19+0.05+0.00=0.24$

Verifica ZZ:  $0.19+0.04+0.00=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5846.47$   $T_x=99.65$   $M_y=-57.78$   $T_y=-12.03$   $M_z=-2.07$   $M_x=14.78$

Tensioni:  $\sigma_N=-424.89$   $\sigma_M=-143.19$   $\tau=28.45$   $\sigma_{max}=-568.07$

Tensioni:  $\sigma_N=-424.89$   $\sigma_M=-6.35$   $\tau=41.37$   $\tau_{max}=41.37$

Tensioni:  $\sigma_N=-424.89$   $\sigma_M=-143.19$   $\tau=28.45$   $\sigma_{ID,max}=570.21$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-3511.46$   $T_x=130.08$   $M_y=-68.57$   $T_y=1.64$   $M_x=42.90$   
 $V,Ed=1.64$   $V_c,Rd,Red=5548.23$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=130.08 Vc,Rd,Red=11096.50 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3896.18 T<sub>z</sub>=81.44 M<sub>y</sub>=-53.79 T<sub>y</sub>=-5.93 M<sub>z</sub>=-1.02 M<sub>x</sub>=14.11  
Tensioni:  $\sigma_N$ =-283.15  $\sigma_M$ =-130.08  $\tau$ =27.14  $\sigma_{max}$ =-413.23  
Tensioni:  $\sigma_N$ =-283.15  $\sigma_M$ =-3.14  $\tau$ =37.70  $\tau_{max}$ =37.70  
Tensioni:  $\sigma_N$ =-283.15  $\sigma_M$ =-130.08  $\tau$ =27.14  $\sigma_{ID,max}$ =415.90

Asta n. 4354 (-13146 -13123) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5789.25 M<sub>y</sub>,Ed=-68.22 M<sub>z</sub>,Ed=-1.61  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.05+0.00=0.25  
Verifica ZZ: 0.19+0.04+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-5238.62 T<sub>z</sub>=100.60 M<sub>y</sub>=-85.43 T<sub>y</sub>=2.21 M<sub>z</sub>=-1.15 M<sub>x</sub>=16.85  
Tensioni:  $\sigma_N$ =-380.71  $\sigma_M$ =-204.92  $\tau$ =32.42  $\sigma_{max}$ =-585.63  
Tensioni:  $\sigma_N$ =-380.71  $\sigma_M$ =-3.51  $\tau$ =45.46  $\tau_{max}$ =45.46  
Tensioni:  $\sigma_N$ =-380.71  $\sigma_M$ =-204.92  $\tau$ =32.42  $\sigma_{ID,max}$ =588.32

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-3490.17 T<sub>z</sub>=107.43 M<sub>y</sub>=-83.91 T<sub>y</sub>=5.44 M<sub>z</sub>=40.85  
V,Ed=5.44 Vc,Rd,Red=5566.38 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=107.43 Vc,Rd,Red=11132.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3847.91 T<sub>z</sub>=66.08 M<sub>y</sub>=-61.36 T<sub>y</sub>=2.07 M<sub>z</sub>=-1.15 M<sub>x</sub>=13.39  
Tensioni:  $\sigma_N$ =-279.64  $\sigma_M$ =-148.34  $\tau$ =25.76  $\sigma_{max}$ =-427.98  
Tensioni:  $\sigma_N$ =-279.64  $\sigma_M$ =-3.53  $\tau$ =34.32  $\tau_{max}$ =34.32  
Tensioni:  $\sigma_N$ =-279.64  $\sigma_M$ =-148.34  $\tau$ =25.76  $\sigma_{ID,max}$ =430.30

Asta n. 4354 (-13123 -13005) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5750.44 M<sub>y</sub>,Ed=-75.61 M<sub>z</sub>,Ed=-1.28  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.06+0.00=0.25  
Verifica ZZ: 0.19+0.05+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-5750.44 T<sub>z</sub>=55.65 M<sub>y</sub>=-75.61 T<sub>y</sub>=1.59 M<sub>z</sub>=-1.12 M<sub>x</sub>=10.67  
Tensioni:  $\sigma_N$ =-417.91  $\sigma_M$ =-181.76  $\tau$ =20.52  $\sigma_{max}$ =-599.67  
Tensioni:  $\sigma_N$ =-417.91  $\sigma_M$ =-3.45  $\tau$ =27.74  $\tau_{max}$ =27.74  
Tensioni:  $\sigma_N$ =-417.91  $\sigma_M$ =-181.76  $\tau$ =20.52  $\sigma_{ID,max}$ =600.72

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-3464.56 T<sub>z</sub>=75.72 M<sub>y</sub>=-96.42 T<sub>y</sub>=3.32 M<sub>z</sub>=37.27  
V,Ed=3.32 Vc,Rd,Red=5597.94 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=75.72 Vc,Rd,Red=11195.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3801.63 T<sub>z</sub>=46.43 M<sub>y</sub>=-66.80 M<sub>z</sub>=-1.22 M<sub>x</sub>=12.21  
Tensioni:  $\sigma_N$ =-276.28  $\sigma_M$ =-161.40  $\tau$ =23.50  $\sigma_{max}$ =-437.68  
Tensioni:  $\sigma_N$ =-276.28  $\sigma_M$ =-4.33  $\tau$ =29.52  $\tau_{max}$ =29.52

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Tensioni:  $\sigma_N=-276.28$   $\sigma_M=-161.40$   $\tau=23.50$   $\sigma_{ID,max}=439.56$

Asta n. 4354 (-13005 -12922) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5716.02 My,Ed=-79.38 Mz,Ed=-0.94  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.06+0.00=0.25  
 Verifica ZZ: 0.19+0.05+0.00=0.24
  - Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-4097.79 T<sub>2</sub>=32.84 M<sub>y</sub>=-110.12 T<sub>y</sub>=-2.89 M<sub>x</sub>=15.01  
 My,Ed=-110.12 My,c,Rd=1184.58  
 N,Ed=-4097.79 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.13  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.09
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
 Sollecitazioni: N=-3428.38 T<sub>2</sub>=36.59 M<sub>y</sub>=-104.99 T<sub>y</sub>=1.57 M<sub>x</sub>=32.68  
 V,Ed=1.57 Vc,Rd,Red=5638.51 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=36.59 Vc,Rd,Red=11277.00 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3749.47 T<sub>2</sub>=24.71 M<sub>y</sub>=-69.54 T<sub>y</sub>=-1.08 M<sub>z</sub>=-1.23 M<sub>x</sub>=10.89  
 Tensioni:  $\sigma_N=-272.49$   $\sigma_M=-167.88$   $\tau=20.96$   $\sigma_{max}=-440.37$   
 Tensioni:  $\sigma_N=-272.49$   $\sigma_M=-3.79$   $\tau=24.17$   $\tau_{max}=24.17$   
 Tensioni:  $\sigma_N=-272.49$   $\sigma_M=-167.88$   $\tau=20.96$   $\sigma_{ID,max}=441.86$

Asta n. 4354 (-12922 -12844) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5685.42 My,Ed=-79.64 Mz,Ed=-0.96  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.06+0.00=0.25  
 Verifica ZZ: 0.18+0.05+0.00=0.24
  - Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-4043.53 T<sub>2</sub>=-3.66 M<sub>y</sub>=-110.46 M<sub>x</sub>=10.06  
 My,Ed=-110.46 My,c,Rd=1184.58  
 N,Ed=-4043.53 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.13  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.09
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.10  
 Sollecitazioni: N=-3701.70 T<sub>2</sub>=-5.63 M<sub>y</sub>=-92.00 T<sub>y</sub>=-5.93 M<sub>x</sub>=12.67  
 V,Ed=-5.93 Vc,Rd,Red=5815.09 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-5.63 Vc,Rd,Red=11630.20 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3691.83 T<sub>2</sub>=11.64 M<sub>y</sub>=-69.73 T<sub>y</sub>=-2.60 M<sub>z</sub>=1.33 M<sub>x</sub>=9.70  
 Tensioni:  $\sigma_N=-268.30$   $\sigma_M=-168.64$   $\tau=18.66$   $\sigma_{max}=-436.94$   
 Tensioni:  $\sigma_N=-268.30$   $\sigma_M=4.08$   $\tau=20.17$   $\tau_{max}=20.17$   
 Tensioni:  $\sigma_N=-268.30$   $\sigma_M=-168.64$   $\tau=18.66$   $\sigma_{ID,max}=438.14$

Asta n. 4354 (-12844 -12774) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5662.04 My,Ed=-78.73 Mz,Ed=-1.10  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$



$\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.06+0.00=0.25  
 Verifica ZZ: 0.18+0.05+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.06 - Classe 3  
 Sollecitazioni: N=-5662.01 T<sub>z</sub>=-35.08 M<sub>y</sub>=-76.66 T<sub>y</sub>=-2.83 M<sub>z</sub>=-1.00  
 Tensioni:  $\sigma_N=-411.48$   $\sigma_M=-183.78$   $\tau=0.00$   $\sigma_{max}=-595.26$   
 Tensioni:  $\sigma_N=-411.48$   $\sigma_M=-3.07$   $\tau=4.55$   $\tau_{max}=4.55$   
 Tensioni:  $\sigma_N=-411.48$   $\sigma_M=-183.78$   $\tau=0.00$   $\sigma_{ID,max}=595.26$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-3330.40 T<sub>z</sub>=-46.71 M<sub>y</sub>=-103.28 T<sub>y</sub>=-6.10 M<sub>x</sub>=23.23  
 V,Ed=-6.10 Vc,Rd,Red=5721.84 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-46.71 Vc,Rd,Red=11443.70 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3630.66 T<sub>z</sub>=-28.56 M<sub>y</sub>=-69.05 T<sub>y</sub>=-4.21 M<sub>z</sub>=1.28 M<sub>x</sub>=8.81  
 Tensioni:  $\sigma_N=-263.86$   $\sigma_M=-166.88$   $\tau=16.96$   $\sigma_{max}=-430.73$   
 Tensioni:  $\sigma_N=-263.86$   $\sigma_M=-3.92$   $\tau=20.66$   $\tau_{max}=20.66$   
 Tensioni:  $\sigma_N=-263.86$   $\sigma_M=-166.88$   $\tau=16.96$   $\sigma_{ID,max}=431.73$

Asta n. 4354 (-12774 -12704) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5652.44 M<sub>y</sub>,Ed=-74.23 M<sub>z</sub>,Ed=-1.04  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.06+0.00=0.24  
 Verifica ZZ: 0.18+0.05+0.00=0.23
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.06 - Classe 3  
 Sollecitazioni: N=-5652.41 T<sub>z</sub>=-61.10 M<sub>y</sub>=-70.54 M<sub>z</sub>=-1.01 M<sub>x</sub>=-2.26  
 Tensioni:  $\sigma_N=-410.79$   $\sigma_M=-169.42$   $\tau=4.35$   $\sigma_{max}=-580.21$   
 Tensioni:  $\sigma_N=-410.79$   $\sigma_M=-3.56$   $\tau=12.27$   $\tau_{max}=12.27$   
 Tensioni:  $\sigma_N=-410.79$   $\sigma_M=-169.42$   $\tau=4.35$   $\sigma_{ID,max}=580.25$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.10  
 Sollecitazioni: N=-2149.59 T<sub>z</sub>=-78.76 M<sub>y</sub>=-85.26 T<sub>y</sub>=-2.34 M<sub>x</sub>=13.43  
 V,Ed=-2.34 Vc,Rd,Red=5808.35 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-78.76 Vc,Rd,Red=11616.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3568.69 T<sub>z</sub>=-47.31 M<sub>y</sub>=-65.65 T<sub>y</sub>=-5.76 M<sub>z</sub>=-1.18 M<sub>x</sub>=-8.31  
 Tensioni:  $\sigma_N=-259.35$   $\sigma_M=-158.51$   $\tau=15.99$   $\sigma_{max}=-417.87$   
 Tensioni:  $\sigma_N=-259.35$   $\sigma_M=-3.61$   $\tau=22.12$   $\tau_{max}=22.12$   
 Tensioni:  $\sigma_N=-259.35$   $\sigma_M=-158.51$   $\tau=15.99$   $\sigma_{ID,max}=418.78$

Asta n. 4354 (-12704 -12633) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5682.92 M<sub>y</sub>,Ed=-66.71 M<sub>z</sub>,Ed=-1.08  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.05+0.00=0.24  
 Verifica ZZ: 0.18+0.04+0.00=0.23
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5682.82 T<sub>z</sub>=-73.72 M<sub>y</sub>=-66.71 T<sub>y</sub>=11.98 M<sub>z</sub>=-1.08 M<sub>x</sub>=-3.62  
 Tensioni:  $\sigma_N=-413.00$   $\sigma_M=-160.65$   $\tau=6.97$   $\sigma_{max}=-573.65$

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Tensioni:  $\sigma_N=-413.00$   $\sigma_M=-3.31$   $\tau=16.52$   $\tau_{max}=16.52$   
 Tensioni:  $\sigma_N=-413.00$   $\sigma_M=-160.65$   $\tau=6.97$   $\sigma_{ID,max}=573.77$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-3224.70$   $T_z=-98.66$   $M_y=-83.07$   $T_y=-6.71$   $M_x=17.91$   
 $V,Ed=-6.71$   $V_c,Rd,Red=5768.79$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-98.66$   $V_c,Rd,Red=11537.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3519.90$   $T_z=-61.51$   $M_y=-60.01$   $T_y=-4.68$   $M_z=-1.01$   $M_x=-8.93$   
 Tensioni:  $\sigma_N=-255.81$   $\sigma_M=-144.67$   $\tau=17.18$   $\sigma_{max}=-400.48$   
 Tensioni:  $\sigma_N=-255.81$   $\sigma_M=-3.10$   $\tau=25.15$   $\tau_{max}=25.15$   
 Tensioni:  $\sigma_N=-255.81$   $\sigma_M=-144.67$   $\tau=17.18$   $\sigma_{ID,max}=401.58$

Asta n. 4354 (-12633 -12559) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5781.04$   $M_y,Ed=-57.49$   $M_z,Ed=7.89$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.19+0.05+0.01=0.25$   
 Verifica ZZ:  $0.19+0.04+0.01=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5781.04$   $T_z=-83.85$   $M_y=-49.58$   $T_y=79.34$   $M_z=7.89$   $M_x=-3.68$   
 Tensioni:  $\sigma_N=-420.13$   $\sigma_M=-144.48$   $\tau=7.08$   $\sigma_{max}=-564.62$   
 Tensioni:  $\sigma_N=-420.13$   $\sigma_M=-108.80$   $\tau=25.98$   $\tau_{max}=25.98$   
 Tensioni:  $\sigma_N=-420.13$   $\sigma_M=-144.48$   $\tau=7.08$   $\sigma_{ID,max}=564.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-5780.95$   $T_z=-78.03$   $M_y=-57.49$   $T_y=79.34$   $M_x=-3.68$   
 $V,Ed=79.34$   $V_c,Rd,Red=5894.41$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-78.03$   $V_c,Rd,Red=11788.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.01$  - Classe 3  
 Sollecitazioni:  $N=-3505.77$   $T_z=-66.06$   $M_y=-52.54$   $T_y=29.43$   $M_z=-1.08$   $M_x=-8.89$   
 Tensioni:  $\sigma_N=-254.78$   $\sigma_M=-127.34$   $\tau=17.11$   $\sigma_{max}=-382.12$   
 Tensioni:  $\sigma_N=-254.78$   $\sigma_M=-3.30$   $\tau=25.67$   $\tau_{max}=25.67$   
 Tensioni:  $\sigma_N=-254.78$   $\sigma_M=-126.83$   $\tau=22.94$   $\sigma_{ID,max}=383.67$

Asta n. 4354 (-12559 -12479) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4990.64$   $M_y,Ed=-53.92$   $M_z,Ed=7.16$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.04+0.01=0.22$   
 Verifica ZZ:  $0.16+0.03+0.01=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.07$  - Classe 3  
 Sollecitazioni:  $N=-4990.61$   $T_z=115.86$   $M_y=-50.85$   $T_y=-82.99$   $M_z=1.26$   $M_x=24.92$   
 Tensioni:  $\sigma_N=-362.69$   $\sigma_M=-124.02$   $\tau=47.96$   $\sigma_{max}=-486.71$   
 Tensioni:  $\sigma_N=-362.69$   $\sigma_M=-111.58$   $\tau=67.72$   $\tau_{max}=67.72$   
 Tensioni:  $\sigma_N=-362.69$   $\sigma_M=-123.43$   $\tau=64.41$   $\sigma_{ID,max}=498.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.08$   
 Sollecitazioni:  $N=-4990.62$   $T_z=115.33$   $M_y=-51.88$   $T_y=-82.99$   $M_x=24.92$   
 $V,Ed=-82.99$   $V_c,Rd,Red=5706.94$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=115.33 Vc,Rd,Red=11413.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3044.03 T<sub>2</sub>=84.48 M<sub>y</sub>=-51.00 T<sub>y</sub>=-50.64 M<sub>2</sub>=-1.09 M<sub>x</sub>=20.91  
Tensioni:  $\sigma_N$ =-221.22  $\sigma_M$ =-123.75  $\tau$ =40.23  $\sigma_{max}$ =-344.98  
Tensioni:  $\sigma_N$ =-221.22  $\sigma_M$ =-111.91  $\tau$ =52.29  $\tau_{max}$ =52.29  
Tensioni:  $\sigma_N$ =-221.22  $\sigma_M$ =-123.24  $\tau$ =50.27  $\sigma_{ID,max}$ =355.30

Asta n. 4354 (-12479 -12395) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4885.07 M<sub>y</sub>,Ed=-67.39 M<sub>z</sub>,Ed=-1.76  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.05+0.00=0.22  
Verifica ZZ: 0.16+0.04+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4276.83 T<sub>2</sub>=134.35 M<sub>y</sub>=-85.29 T<sub>y</sub>=-9.23 M<sub>2</sub>=-1.45 M<sub>x</sub>=30.41  
Tensioni:  $\sigma_N$ =-310.82  $\sigma_M$ =-205.67  $\tau$ =58.52  $\sigma_{max}$ =-516.49  
Tensioni:  $\sigma_N$ =-310.82  $\sigma_M$ =-4.46  $\tau$ =75.94  $\tau_{max}$ =75.94  
Tensioni:  $\sigma_N$ =-310.82  $\sigma_M$ =-205.67  $\tau$ =58.52  $\sigma_{ID,max}$ =526.34

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-2703.62 T<sub>2</sub>=138.29 M<sub>y</sub>=-83.74 M<sub>x</sub>=58.29  
V,Ed=138.29 Vc,Rd,Red=10824.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2974.66 T<sub>2</sub>=79.51 M<sub>y</sub>=-59.76 T<sub>y</sub>=-6.61 M<sub>x</sub>=20.84  
Tensioni:  $\sigma_N$ =-216.18  $\sigma_M$ =-140.49  $\tau$ =40.10  $\sigma_{max}$ =-356.68  
Tensioni:  $\sigma_N$ =-216.18  $\sigma_M$ =0.00  $\tau$ =50.41  $\tau_{max}$ =50.41  
Tensioni:  $\sigma_N$ =-216.18  $\sigma_M$ =-140.49  $\tau$ =41.68  $\sigma_{ID,max}$ =363.91

Asta n. 4354 (-12395 -12329) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4797.29 M<sub>y</sub>,Ed=-79.12 M<sub>z</sub>,Ed=-1.32  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.06+0.00=0.22  
Verifica ZZ: 0.16+0.05+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4797.29 T<sub>2</sub>=92.63 M<sub>y</sub>=-79.12 T<sub>y</sub>=-1.07 M<sub>2</sub>=-1.32 M<sub>x</sub>=23.37  
Tensioni:  $\sigma_N$ =-348.64  $\sigma_M$ =-190.69  $\tau$ =44.98  $\sigma_{max}$ =-539.33  
Tensioni:  $\sigma_N$ =-348.64  $\sigma_M$ =-4.66  $\tau$ =56.98  $\tau_{max}$ =56.98  
Tensioni:  $\sigma_N$ =-348.64  $\sigma_M$ =-190.69  $\tau$ =44.98  $\sigma_{ID,max}$ =544.93

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-3157.65 T<sub>2</sub>=120.36 M<sub>y</sub>=-100.42 T<sub>y</sub>=3.31 M<sub>x</sub>=36.29  
V,Ed=3.31 Vc,Rd,Red=5606.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=120.36 Vc,Rd,Red=11213.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2911.99 T<sub>2</sub>=64.96 M<sub>y</sub>=-67.34 M<sub>x</sub>=19.92  
Tensioni:  $\sigma_N$ =-211.63  $\sigma_M$ =-158.32  $\tau$ =38.32  $\sigma_{max}$ =-369.94  
Tensioni:  $\sigma_N$ =-211.63  $\sigma_M$ =0.00  $\tau$ =46.74  $\tau_{max}$ =46.74  
Tensioni:  $\sigma_N$ =-211.63  $\sigma_M$ =-158.32  $\tau$ =38.32  $\sigma_{ID,max}$ =375.85

Asta n. 4354 (-12329 -12261) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-4720.57 My,Ed=-87.67 Mz,Ed=-1.00  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.07+0.00=0.23  
 Verifica ZZ: 0.15+0.06+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4720.57 Tz=65.04 My=-87.67 Mz=-1.00 Mx=20.75  
 Tensioni:  $\sigma_N=-343.06$   $\sigma_M=-209.67$   $\tau=39.93$   $\sigma_{max}=-552.74$   
 Tensioni:  $\sigma_N=-343.06$   $\sigma_M=-3.54$   $\tau=48.36$   $\tau_{max}=48.36$   
 Tensioni:  $\sigma_N=-343.06$   $\sigma_M=-209.67$   $\tau=39.93$   $\sigma_{ID,max}=557.05$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-2185.39 Tz=88.64 My=-105.08 Ty=-1.81 Mx=24.45  
 V,Ed=-1.81 Vc,Rd,Red=5711.13 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=88.64 Vc,Rd,Red=11422.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2847.82 Tz=45.07 My=-72.67 Mx=18.31  
 Tensioni:  $\sigma_N=-206.96$   $\sigma_M=-170.85$   $\tau=35.24$   $\sigma_{max}=-377.81$   
 Tensioni:  $\sigma_N=-206.96$   $\sigma_M=0.00$   $\tau=41.08$   $\tau_{max}=41.08$   
 Tensioni:  $\sigma_N=-206.96$   $\sigma_M=-170.85$   $\tau=35.24$   $\sigma_{ID,max}=382.71$

Asta n. 4354 (-12261 -12189) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4641.57 My,Ed=-92.75 Mz,Ed=-0.85  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.07+0.00=0.23  
 Verifica ZZ: 0.15+0.06+0.00=0.21
- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-3027.73 Tz=45.14 My=-128.97 Ty=-4.22 Mx=28.18  
 My,Ed=-128.97 My,c,Rd=1184.58  
 N,Ed=-3027.73 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.10  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.11
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-2136.21 Tz=50.47 My=-115.12 Ty=-3.63 Mx=19.87  
 V,Ed=-3.63 Vc,Rd,Red=5751.53 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=50.47 Vc,Rd,Red=11503.10 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.03 - Classe 3  
 Sollecitazioni: N=-2775.60 Tz=28.89 My=-73.97 Ty=-1.98 Mz=1.01 Mx=16.38  
 Tensioni:  $\sigma_N=-201.72$   $\sigma_M=-177.50$   $\tau=31.52$   $\sigma_{max}=-379.21$   
 Tensioni:  $\sigma_N=-201.72$   $\sigma_M=3.11$   $\tau=35.27$   $\tau_{max}=35.27$   
 Tensioni:  $\sigma_N=-201.72$   $\sigma_M=-177.50$   $\tau=31.52$   $\sigma_{ID,max}=383.12$

Asta n. 4354 (-12189 -12148) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4561.75 My,Ed=-93.78 Mz,Ed=-0.82  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.08+0.00=0.22  
 Verifica ZZ: 0.15+0.06+0.00=0.21

- Verifica a pressoflessione retta - CC 54 SLU  $X_1=0.10$  - Classe 1  
Sollecitazioni:  $N=-2945.31$   $T_x=3.90$   $M_y=-130.18$   $T_y=-5.29$   $M_x=23.29$   
 $M_y, Ed=-130.18$   $M_y, c, Rd=1184.58$   
 $N, Ed=-2945.31$   $Nc, Rd=30796.20$   $n=N, Ed/Nc, Rd=0.10$   
 $MNy, c, Rd=1184.58$   $My, Ed/MNy, c, Rd=0.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $X_1=0.10$   
Sollecitazioni:  $N=-2709.76$   $T_x=2.69$   $M_y=-108.07$   $T_y=-6.41$   $M_x=24.45$   
 $V, Ed=-6.41$   $Vc, Rd, Red=5711.14$   $V, Ed/Vc, Rd, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=2.69$   $Vc, Rd, Red=11422.30$   $V, Ed/Vc, Rd, Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-2697.11$   $T_x=19.20$   $M_y=-75.54$   $T_y=-2.96$   $M_z=1.11$   $M_x=14.44$   
Tensioni:  $\sigma_N=-196.01$   $\sigma_M=-181.54$   $\tau=27.78$   $\sigma_{max}=-377.55$   
Tensioni:  $\sigma_N=-196.01$   $\sigma_M=3.41$   $\tau=30.27$   $\tau_{max}=30.27$   
Tensioni:  $\sigma_N=-196.01$   $\sigma_M=-181.54$   $\tau=27.78$   $\sigma_{ID, max}=380.60$

Asta n. 4354 (-12148 -12041) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-4484.03$   $M_y, Ed=-93.54$   $M_z, Ed=-0.90$   
Resistenze:  $Nc, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr, y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr, z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.15+0.08+0.00=0.22$   
Verifica ZZ:  $0.15+0.06+0.00=0.21$
- Verifica a pressoflessione retta - CC 54 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-2855.12$   $T_x=-29.88$   $M_y=-129.87$   $T_y=-2.84$   $M_x=18.81$   
 $M_y, Ed=-129.87$   $M_y, c, Rd=1184.58$   
 $N, Ed=-2855.12$   $Nc, Rd=30796.20$   $n=N, Ed/Nc, Rd=0.09$   
 $MNy, c, Rd=1184.58$   $My, Ed/MNy, c, Rd=0.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_1=0.10$   
Sollecitazioni:  $N=-2423.29$   $T_x=-37.67$   $M_y=-124.69$   $T_y=-6.62$   $M_x=38.87$   
 $V, Ed=-6.62$   $Vc, Rd, Red=5583.87$   $V, Ed/Vc, Rd, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-37.67$   $Vc, Rd, Red=11167.70$   $V, Ed/Vc, Rd, Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
Sollecitazioni:  $N=-2613.92$   $T_x=-29.92$   $M_y=-74.75$   $T_y=-4.43$   $M_z=1.09$   $M_x=12.82$   
Tensioni:  $\sigma_N=-189.97$   $\sigma_M=-179.61$   $\tau=24.66$   $\sigma_{max}=-369.57$   
Tensioni:  $\sigma_N=-189.97$   $\sigma_M=-3.34$   $\tau=28.54$   $\tau_{max}=28.54$   
Tensioni:  $\sigma_N=-189.97$   $\sigma_M=-179.61$   $\tau=24.66$   $\sigma_{ID, max}=372.03$
- Asta n. 4354 (-12041 -11921) Tubo 60x120x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N, Ed=-4414.20$   $M_y, Ed=-90.37$   $M_z, Ed=-0.82$   
Resistenze:  $Nc, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr, y=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr, z=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.14+0.07+0.00=0.22$   
Verifica ZZ:  $0.14+0.06+0.00=0.20$
- Verifica a pressoflessione retta - CC 54 SLU  $X_1=0.00$  - Classe 1  
Sollecitazioni:  $N=-2760.05$   $T_x=-61.43$   $M_y=-125.59$   $T_y=-4.69$   $M_x=15.38$   
 $M_y, Ed=-125.59$   $M_y, c, Rd=1184.58$   
 $N, Ed=-2760.05$   $Nc, Rd=30796.20$   $n=N, Ed/Nc, Rd=0.09$   
 $MNy, c, Rd=1184.58$   $My, Ed/MNy, c, Rd=0.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_1=0.10$   
Sollecitazioni:  $N=-2340.66$   $T_x=-69.01$   $M_y=-117.02$   $T_y=-8.59$   $M_x=35.47$

V,Ed=-8.59 Vc,Rd,Red=5613.85 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-69.01 Vc,Rd,Red=11227.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2528.36 T<sub>z</sub>=-48.94 M<sub>y</sub>=-71.34 T<sub>y</sub>=-6.18 M<sub>x</sub>=11.66  
Tensioni:  $\sigma_N$ =-183.75  $\sigma_M$ =-167.72  $\tau$ =22.44  $\sigma_{max}$ =-351.47  
Tensioni:  $\sigma_N$ =-183.75  $\sigma_M$ =0.00  $\tau$ =28.79  $\tau_{max}$ =28.79  
Tensioni:  $\sigma_N$ =-183.75  $\sigma_M$ =-167.72  $\tau$ =23.92  $\sigma_{ID,max}$ =353.90

Asta n. 4354 (-11921 -11894) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4372.13 My,Ed=-84.15 Mz,Ed=-0.51  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.07+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.20

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2672.62 T<sub>z</sub>=-82.67 M<sub>y</sub>=-117.64 T<sub>y</sub>=-7.00 M<sub>x</sub>=13.52  
My,Ed=-117.64 My,c,Rd=1184.58  
N,Ed=-2672.62 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
MMy,c,Rd=1184.58 My,Ed/MMy,c,Rd=0.10

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-2262.57 T<sub>z</sub>=-90.07 M<sub>y</sub>=-106.71 T<sub>y</sub>=-10.87 M<sub>x</sub>=33.64  
V,Ed=-10.87 Vc,Rd,Red=5629.98 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-90.07 Vc,Rd,Red=11260.00 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2450.16 T<sub>z</sub>=-63.06 M<sub>y</sub>=-65.73 T<sub>y</sub>=-8.57 M<sub>x</sub>=11.09  
Tensioni:  $\sigma_N$ =-178.06  $\sigma_M$ =-154.55  $\tau$ =21.34  $\sigma_{max}$ =-332.61  
Tensioni:  $\sigma_N$ =-178.06  $\sigma_M$ =0.00  $\tau$ =29.51  $\tau_{max}$ =29.51  
Tensioni:  $\sigma_N$ =-178.06  $\sigma_M$ =-154.55  $\tau$ =23.38  $\sigma_{ID,max}$ =335.07

Asta n. 4354 (-11894 -11773) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4375.68 My,Ed=-76.15 Mz,Ed=2.45  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.06+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-4375.63 T<sub>z</sub>=-69.53 M<sub>y</sub>=-73.12 T<sub>y</sub>=24.43 M<sub>z</sub>=1.14 M<sub>x</sub>=6.74  
Tensioni:  $\sigma_N$ =-318.00  $\sigma_M$ =-175.95  $\tau$ =12.96  $\sigma_{max}$ =-493.95  
Tensioni:  $\sigma_N$ =-318.00  $\sigma_M$ =-3.51  $\tau$ =21.98  $\tau_{max}$ =21.98  
Tensioni:  $\sigma_N$ =-318.00  $\sigma_M$ =-175.95  $\tau$ =12.96  $\sigma_{ID,max}$ =494.46

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-2205.64 T<sub>z</sub>=-90.24 M<sub>y</sub>=-96.29 T<sub>y</sub>=-4.02 M<sub>x</sub>=33.62  
V,Ed=-4.02 Vc,Rd,Red=5630.20 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-90.24 Vc,Rd,Red=11260.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2394.29 T<sub>z</sub>=-66.86 M<sub>y</sub>=-58.85 T<sub>y</sub>=-6.19 M<sub>x</sub>=11.07  
Tensioni:  $\sigma_N$ =-174.00  $\sigma_M$ =-138.36  $\tau$ =21.29  $\sigma_{max}$ =-312.37

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Tensioni:  $\sigma_N=-174.00$   $\sigma_M=0.00$   $\tau=29.96$   $\tau_{max}=29.96$   
Tensioni:  $\sigma_N=-174.00$   $\sigma_M=-138.36$   $\tau=22.77$   $\sigma_{ID,max}=314.85$

Asta n. 4354 (-11773 -11707) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-3450.91 My,Ed=-73.67 Mz,Ed=5.61  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.06+0.01=0.18  
Verifica ZZ: 0.11+0.05+0.01=0.17
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.06 - Classe 3  
Sollecitazioni: N=-2920.23 Tz=107.98 My=-89.76 Ty=-46.37 Mz=1.13 Mx=43.26  
Tensioni:  $\sigma_N=-212.23$   $\sigma_M=-215.03$   $\tau=83.25$   $\sigma_{max}=-427.25$   
Tensioni:  $\sigma_N=-212.23$   $\sigma_M=3.46$   $\tau=97.25$   $\tau_{max}=97.25$   
Tensioni:  $\sigma_N=-212.23$   $\sigma_M=-214.49$   $\tau=92.44$   $\sigma_{ID,max}=455.77$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
Sollecitazioni: N=-3450.89 Tz=88.92 My=-72.10 Ty=-61.34 Mx=36.14  
V,Ed=-61.34 Vc,Rd,Red=5607.93 V,Ed/Vc,Rd,Red=0.01
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=88.92 Vc,Rd,Red=11215.90 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.09 - Classe 3  
Sollecitazioni: N=-1955.91 Tz=57.34 My=-55.77 Ty=-34.75 Mz=-1.05 Mx=26.87  
Tensioni:  $\sigma_N=-142.15$   $\sigma_M=-134.82$   $\tau=51.71$   $\sigma_{max}=-276.96$   
Tensioni:  $\sigma_N=-142.15$   $\sigma_M=-122.38$   $\tau=59.99$   $\tau_{max}=59.99$   
Tensioni:  $\sigma_N=-142.15$   $\sigma_M=-134.33$   $\tau=58.60$   $\sigma_{ID,max}=294.51$

Asta n. 4354 (-11707 -11669) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-2814.74 My,Ed=-106.21 Mz,Ed=-1.08  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.09+0.09+0.00=0.18  
Verifica ZZ: 0.09+0.07+0.00=0.16
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-2814.74 Tz=101.07 My=-106.21 Ty=-12.17 Mz=-1.08 Mx=43.04  
Tensioni:  $\sigma_N=-204.56$   $\sigma_M=-253.54$   $\tau=82.82$   $\sigma_{max}=-458.10$   
Tensioni:  $\sigma_N=-204.56$   $\sigma_M=-3.31$   $\tau=95.92$   $\tau_{max}=95.92$   
Tensioni:  $\sigma_N=-204.56$   $\sigma_M=-253.03$   $\tau=85.23$   $\sigma_{ID,max}=480.81$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-1368.79 Tz=109.70 My=-100.19 Ty=-2.87 Mx=41.95  
V,Ed=-2.87 Vc,Rd,Red=5556.65 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=109.70 Vc,Rd,Red=11113.30 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1883.66 Tz=52.75 My=-62.18 Ty=-7.17 Mx=26.77  
Tensioni:  $\sigma_N=-136.89$   $\sigma_M=-146.20$   $\tau=51.52$   $\sigma_{max}=-283.10$   
Tensioni:  $\sigma_N=-136.89$   $\sigma_M=0.00$   $\tau=58.36$   $\tau_{max}=58.36$   
Tensioni:  $\sigma_N=-136.89$   $\sigma_M=-146.20$   $\tau=53.23$   $\sigma_{ID,max}=297.73$

Asta n. 4354 (-11669 -11569) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-2697.01 My,Ed=-116.56 Mz,Ed=-0.85  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.09+0.09+0.00=0.18

Verifica ZZ: 0.09+0.07+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3153.64 T<sub>z</sub>=65.06 M<sub>y</sub>=-92.70 T<sub>y</sub>=-6.29 M<sub>z</sub>=-1.30 M<sub>x</sub>=34.55  
 Tensioni:  $\sigma_N=-229.19$   $\sigma_M=-222.56$   $\tau=66.47$   $\sigma_{max}=-451.75$   
 Tensioni:  $\sigma_N=-229.19$   $\sigma_M=-4.00$   $\tau=74.91$   $\tau_{max}=74.91$   
 Tensioni:  $\sigma_N=-229.19$   $\sigma_M=-222.56$   $\tau=66.47$   $\sigma_{ID,max}=466.19$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-1332.53 T<sub>z</sub>=87.23 M<sub>y</sub>=-113.14 T<sub>y</sub>=-1.39 M<sub>z</sub>=39.90  
 V,Ed=-1.39 Vc,Rd,Red=5574.79 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=87.23 Vc,Rd,Red=11149.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1807.25 T<sub>z</sub>=40.62 M<sub>y</sub>=-66.80 T<sub>y</sub>=-2.11 M<sub>z</sub>=25.84  
 Tensioni:  $\sigma_N=-131.34$   $\sigma_M=-157.05$   $\tau=49.73$   $\sigma_{max}=-288.39$   
 Tensioni:  $\sigma_N=-131.34$   $\sigma_M=0.00$   $\tau=55.00$   $\tau_{max}=55.00$   
 Tensioni:  $\sigma_N=-131.34$   $\sigma_M=-157.05$   $\tau=50.23$   $\sigma_{ID,max}=301.23$

Asta n. 4354 (-11569 -11499) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2570.67 M<sub>y</sub>,Ed=-123.19 M<sub>z</sub>,Ed=-0.71  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.08+0.10+0.00=0.18

Verifica ZZ: 0.08+0.08+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2994.14 T<sub>z</sub>=38.82 M<sub>y</sub>=-98.21 T<sub>y</sub>=-4.53 M<sub>z</sub>=-1.19 M<sub>x</sub>=31.96  
 Tensioni:  $\sigma_N=-217.60$   $\sigma_M=-235.10$   $\tau=61.49$   $\sigma_{max}=-452.70$   
 Tensioni:  $\sigma_N=-217.60$   $\sigma_M=-3.64$   $\tau=66.52$   $\tau_{max}=66.52$   
 Tensioni:  $\sigma_N=-217.60$   $\sigma_M=-235.10$   $\tau=61.49$   $\sigma_{ID,max}=465.06$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-1319.10 T<sub>z</sub>=55.55 M<sub>y</sub>=-116.86 M<sub>z</sub>=36.69  
 V,Ed=55.55 Vc,Rd,Red=11206.20 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1724.79 T<sub>z</sub>=27.25 M<sub>y</sub>=-69.33 T<sub>y</sub>=-2.04 M<sub>z</sub>=24.26  
 Tensioni:  $\sigma_N=-125.35$   $\sigma_M=-163.00$   $\tau=46.68$   $\sigma_{max}=-288.35$   
 Tensioni:  $\sigma_N=-125.35$   $\sigma_M=0.00$   $\tau=50.22$   $\tau_{max}=50.22$   
 Tensioni:  $\sigma_N=-125.35$   $\sigma_M=-163.00$   $\tau=47.17$   $\sigma_{ID,max}=299.70$

Asta n. 4354 (-11499 -11429) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2430.54 M<sub>y</sub>,Ed=-125.30 M<sub>z</sub>,Ed=-0.63  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.08+0.10+0.00=0.18

Verifica ZZ: 0.08+0.08+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2823.86 T<sub>z</sub>=8.49 M<sub>y</sub>=-100.09 T<sub>y</sub>=-4.90 M<sub>z</sub>=-1.13 M<sub>x</sub>=28.67  
 Tensioni:  $\sigma_N=-205.22$   $\sigma_M=-239.30$   $\tau=55.17$   $\sigma_{max}=-444.52$



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Tensioni:  $\sigma_N=-205.22$   $\sigma_M=-219.63$   $\tau=56.34$   $\tau_{max}=56.34$   
Tensioni:  $\sigma_N=-205.22$   $\sigma_M=-239.30$   $\tau=55.17$   $\sigma_{ID,max}=454.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $X1=0.00$   
Sollecitazioni:  $N=-369.38$   $T_z=22.32$   $M_y=-72.03$   $T_y=-3.88$   $M_x=15.58$   
 $V,Ed=-3.88$   $Vc,Rd,Red=5789.38$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=22.32$   $Vc,Rd,Red=11578.80$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-1633.02$   $T_z=21.02$   $M_y=-69.63$   $T_y=-2.68$   $M_x=22.31$   
Tensioni:  $\sigma_N=-118.68$   $\sigma_M=-163.72$   $\tau=42.92$   $\sigma_{max}=-282.39$   
Tensioni:  $\sigma_N=-118.68$   $\sigma_M=0.00$   $\tau=45.65$   $\tau_{max}=45.65$   
Tensioni:  $\sigma_N=-118.68$   $\sigma_M=-163.72$   $\tau=43.56$   $\sigma_{ID,max}=292.30$

Asta n. 4354 (-11429 -11359) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2279.86$   $M_y,Ed=-125.29$   $M_z,Ed=-0.67$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.07+0.10+0.00=0.18$   
Verifica ZZ:  $0.07+0.08+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.07$  - Classe 3  
Sollecitazioni:  $N=-2645.52$   $T_z=-21.87$   $M_y=-98.70$   $T_y=-5.81$   $M_z=-1.01$   $M_x=25.14$   
Tensioni:  $\sigma_N=-192.26$   $\sigma_M=-235.62$   $\tau=48.38$   $\sigma_{max}=-427.88$   
Tensioni:  $\sigma_N=-192.26$   $\sigma_M=3.08$   $\tau=51.21$   $\tau_{max}=51.21$   
Tensioni:  $\sigma_N=-192.26$   $\sigma_M=-235.62$   $\tau=48.38$   $\sigma_{ID,max}=436.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X1=0.10$   
Sollecitazioni:  $N=-1455.35$   $T_z=-41.90$   $M_y=-127.62$   $T_y=-5.34$   $M_x=56.42$   
 $V,Ed=-5.34$   $Vc,Rd,Red=5428.98$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-41.90$   $Vc,Rd,Red=10858.00$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-1533.95$   $T_z=-28.98$   $M_y=-69.20$   $T_y=-3.48$   $M_x=20.30$   
Tensioni:  $\sigma_N=-111.48$   $\sigma_M=-162.69$   $\tau=39.06$   $\sigma_{max}=-274.17$   
Tensioni:  $\sigma_N=-111.48$   $\sigma_M=0.00$   $\tau=42.81$   $\tau_{max}=42.81$   
Tensioni:  $\sigma_N=-111.48$   $\sigma_M=-162.69$   $\tau=39.88$   $\sigma_{ID,max}=282.74$

Asta n. 4354 (-11359 -11293) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2120.70$   $M_y,Ed=-121.75$   $M_z,Ed=-0.76$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55359300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18388000.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.07+0.10+0.00=0.17$   
Verifica ZZ:  $0.07+0.08+0.00=0.15$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.07$  - Classe 3  
Sollecitazioni:  $N=-2461.63$   $T_z=-51.85$   $M_y=-93.98$   $T_y=-6.57$   $M_z=-1.03$   $M_x=21.92$   
Tensioni:  $\sigma_N=-178.90$   $\sigma_M=-224.59$   $\tau=42.18$   $\sigma_{max}=-403.48$   
Tensioni:  $\sigma_N=-178.90$   $\sigma_M=3.15$   $\tau=48.90$   $\tau_{max}=48.90$   
Tensioni:  $\sigma_N=-178.90$   $\sigma_M=-224.59$   $\tau=42.18$   $\sigma_{ID,max}=410.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X1=0.10$   
Sollecitazioni:  $N=-1356.19$   $T_z=-80.75$   $M_y=-118.85$   $T_y=-6.83$   $M_x=51.94$   
 $V,Ed=-6.83$   $Vc,Rd,Red=5468.45$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-80.75 Vc,Rd,Red=10936.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1428.45 T<sub>z</sub>=-48.88 M<sub>y</sub>=-66.27 T<sub>y</sub>=-4.59 M<sub>x</sub>=18.52  
Tensioni:  $\sigma_N$ =-103.81  $\sigma_M$ =-155.80  $\tau$ =35.64  $\sigma_{max}$ =-259.61  
Tensioni:  $\sigma_N$ =-103.81  $\sigma_M$ =0.00  $\tau$ =41.98  $\tau_{max}$ =41.98  
Tensioni:  $\sigma_N$ =-103.81  $\sigma_M$ =-155.80  $\tau$ =36.73  $\sigma_{ID,max}$ =267.29

Asta n. 4354 (-11293 -11221) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-1956.25 M<sub>y</sub>,Ed=-113.75 M<sub>z</sub>,Ed=-0.97  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.09+0.00=0.16  
Verifica ZZ: 0.06+0.07+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.06 - Classe 3  
Sollecitazioni: N=-2276.51 T<sub>z</sub>=-76.20 M<sub>y</sub>=-86.45 T<sub>y</sub>=-8.08 M<sub>z</sub>=-1.02 M<sub>x</sub>=19.49  
Tensioni:  $\sigma_N$ =-165.44  $\sigma_M$ =-206.85  $\tau$ =37.51  $\sigma_{max}$ =-372.29  
Tensioni:  $\sigma_N$ =-165.44  $\sigma_M$ =3.12  $\tau$ =47.39  $\tau_{max}$ =47.39  
Tensioni:  $\sigma_N$ =-165.44  $\sigma_M$ =-206.37  $\tau$ =39.11  $\sigma_{ID,max}$ =377.93

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-1246.39 T<sub>z</sub>=-110.74 M<sub>y</sub>=-106.32 T<sub>y</sub>=-9.96 M<sub>x</sub>=48.60  
V,Ed=-9.96 Vc,Rd,Red=5497.94 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-110.74 Vc,Rd,Red=10995.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1317.61 T<sub>z</sub>=-65.43 M<sub>y</sub>=-61.07 T<sub>y</sub>=-7.02 M<sub>x</sub>=17.24  
Tensioni:  $\sigma_N$ =-95.76  $\sigma_M$ =-143.59  $\tau$ =33.17  $\sigma_{max}$ =-239.35  
Tensioni:  $\sigma_N$ =-95.76  $\sigma_M$ =0.00  $\tau$ =41.65  $\tau_{max}$ =41.65  
Tensioni:  $\sigma_N$ =-95.76  $\sigma_M$ =-143.59  $\tau$ =34.84  $\sigma_{ID,max}$ =246.84

Asta n. 4354 (-11221 -11155) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-1794.07 M<sub>y</sub>,Ed=-102.26 M<sub>z</sub>,Ed=-1.95  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55359300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18388000.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.08+0.00=0.14  
Verifica ZZ: 0.06+0.07+0.00=0.13

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.05 - Classe 3  
Sollecitazioni: N=-1794.02 T<sub>z</sub>=-115.18 M<sub>y</sub>=-96.70 T<sub>y</sub>=-17.92 M<sub>z</sub>=-1.07 M<sub>x</sub>=20.23  
Tensioni:  $\sigma_N$ =-130.38  $\sigma_M$ =-231.16  $\tau$ =38.93  $\sigma_{max}$ =-361.54  
Tensioni:  $\sigma_N$ =-130.38  $\sigma_M$ =3.29  $\tau$ =53.86  $\tau_{max}$ =53.86  
Tensioni:  $\sigma_N$ =-130.38  $\sigma_M$ =-230.65  $\tau$ =42.48  $\sigma_{ID,max}$ =368.45

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.08  
Sollecitazioni: N=-1130.18 T<sub>z</sub>=-130.99 M<sub>y</sub>=-93.73 T<sub>y</sub>=-16.86 M<sub>x</sub>=46.79  
V,Ed=-16.86 Vc,Rd,Red=5513.93 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-130.99 Vc,Rd,Red=11027.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1205.34 T<sub>z</sub>=-78.18 M<sub>y</sub>=-54.31 T<sub>y</sub>=-13.98 M<sub>x</sub>=16.55  
Tensioni:  $\sigma_N$ =-87.60  $\sigma_M$ =-127.70  $\tau$ =31.85  $\sigma_{max}$ =-215.29  
Tensioni:  $\sigma_N$ =-87.60  $\sigma_M$ =0.00  $\tau$ =41.98  $\tau_{max}$ =41.98  
Tensioni:  $\sigma_N$ =-87.60  $\sigma_M$ =-127.70  $\tau$ =35.18  $\sigma_{ID,max}$ =223.75

Asta n. 4354 (-11155 -11089) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1644.36 My,Ed=-88.65 Mz,Ed=-6.42  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.07+0.01=0.13  
 Verifica ZZ: 0.05+0.06+0.01=0.12
  
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1644.26 Tz=-113.26 My=-88.65 Ty=-54.24 Mz=-1.12 Mx=20.27  
 Tensioni:  $\sigma_N=-119.50$   $\sigma_M=-212.36$   $\tau=39.00$   $\sigma_{max}=-331.86$   
 Tensioni:  $\sigma_N=-119.50$   $\sigma_M=3.42$   $\tau=53.69$   $\tau_{max}=53.69$   
 Tensioni:  $\sigma_N=-119.50$   $\sigma_M=-211.84$   $\tau=49.75$   $\sigma_{ID,max}=342.36$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.01  
 Sollecitazioni: N=-1020.04 Tz=-126.73 My=-87.53 Ty=-28.42 Mx=46.82  
 V,Ed=-28.42 Vc,Rd,Red=5513.65 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-126.73 Vc,Rd,Red=11027.30 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1101.06 Tz=-80.78 My=-46.97 Ty=-28.84 Mx=16.58  
 Tensioni:  $\sigma_N=-80.02$   $\sigma_M=-110.44$   $\tau=31.90$   $\sigma_{max}=-190.46$   
 Tensioni:  $\sigma_N=-80.02$   $\sigma_M=0.00$   $\tau=42.37$   $\tau_{max}=42.37$   
 Tensioni:  $\sigma_N=-80.02$   $\sigma_M=-110.44$   $\tau=38.77$   $\sigma_{ID,max}=201.95$

Asta n. 4354 (-11089 -11021) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-771.00 My,Ed=-86.79 Mz,Ed=0.63  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.03+0.07+0.00=0.10  
 Verifica ZZ: 0.03+0.06+0.00=0.08
  
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-869.41 Tz=47.74 My=-64.71 Ty=-18.24 Mz=-1.25 Mx=46.80  
 Tensioni:  $\sigma_N=-63.18$   $\sigma_M=-156.57$   $\tau=90.05$   $\sigma_{max}=-219.75$   
 Tensioni:  $\sigma_N=-63.18$   $\sigma_M=-3.83$   $\tau=96.24$   $\tau_{max}=96.24$   
 Tensioni:  $\sigma_N=-63.18$   $\sigma_M=-155.98$   $\tau=93.66$   $\sigma_{ID,max}=272.67$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 41 SLU Xl=0.00  
 Sollecitazioni: N=-548.57 Tz=64.12 My=-73.59 Ty=-4.80 Mx=69.39  
 V,Ed=-4.80 Vc,Rd,Red=5314.49 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=64.12 Vc,Rd,Red=10629.00 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-729.21 Tz=35.04 My=-40.21 Ty=-15.41 Mz=1.64 Mx=31.81  
 Tensioni:  $\sigma_N=-53.00$   $\sigma_M=-100.35$   $\tau=61.20$   $\sigma_{max}=-153.34$   
 Tensioni:  $\sigma_N=-53.00$   $\sigma_M=5.03$   $\tau=65.75$   $\tau_{max}=65.75$   
 Tensioni:  $\sigma_N=-53.00$   $\sigma_M=-99.57$   $\tau=64.26$   $\sigma_{ID,max}=188.85$

Asta n. 4354 (-11021 -10946) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-720.41 My,Ed=-93.50 Mz,Ed=-0.29  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.08+0.00=0.10  
 Verifica ZZ: 0.02+0.06+0.00=0.08

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-730.64 T<sub>z</sub>=51.55 M<sub>y</sub>=-88.17 T<sub>y</sub>=-14.18 M<sub>z</sub>=-1.59 M<sub>x</sub>=54.58  
 Tensioni:  $\sigma_N$ =-53.10  $\sigma_M$ =-212.93  $\tau$ =105.03  $\sigma_{max}$ =-266.03  
 Tensioni:  $\sigma_N$ =-53.10  $\sigma_M$ =-4.88  $\tau$ =111.72  $\tau_{max}$ =111.72  
 Tensioni:  $\sigma_N$ =-53.10  $\sigma_M$ =-212.18  $\tau$ =107.85  $\sigma_{ID,max}$ =324.44

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 89 SLU Xl=0.00  
 Sollecitazioni: N=-419.93 T<sub>z</sub>=58.50 M<sub>y</sub>=-83.62 M<sub>x</sub>=70.70  
 V,Ed=58.50 Vc,Rd,Red=10605.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-665.97 T<sub>z</sub>=27.59 M<sub>y</sub>=-43.67 T<sub>y</sub>=-6.41 M<sub>x</sub>=31.74  
 Tensioni:  $\sigma_N$ =-48.40  $\sigma_M$ =-102.68  $\tau$ =61.07  $\sigma_{max}$ =-151.08  
 Tensioni:  $\sigma_N$ =-48.40  $\sigma_M$ =0.00  $\tau$ =64.65  $\tau_{max}$ =64.65  
 Tensioni:  $\sigma_N$ =-48.40  $\sigma_M$ =-102.68  $\tau$ =62.60  $\sigma_{ID,max}$ =185.96

Asta n. 4354 (-10946 -10877) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-655.20 M<sub>y</sub>,Ed=-97.77 M<sub>z</sub>,Ed=-0.16  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55359300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18388000.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.08+0.00=0.10  
 Verifica ZZ: 0.02+0.06+0.00=0.08

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-598.07 T<sub>z</sub>=28.83 M<sub>y</sub>=-92.70 T<sub>y</sub>=-9.00 M<sub>z</sub>=-1.80 M<sub>x</sub>=52.48  
 Tensioni:  $\sigma_N$ =-43.46  $\sigma_M$ =-224.34  $\tau$ =100.99  $\sigma_{max}$ =-267.80  
 Tensioni:  $\sigma_N$ =-43.46  $\sigma_M$ =-5.53  $\tau$ =104.73  $\tau_{max}$ =104.73  
 Tensioni:  $\sigma_N$ =-43.46  $\sigma_M$ =-223.49  $\tau$ =102.77  $\sigma_{ID,max}$ =320.86

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00  
 Sollecitazioni: N=-398.03 T<sub>z</sub>=35.17 M<sub>y</sub>=-90.69 T<sub>y</sub>=-1.69 M<sub>x</sub>=68.34  
 V,Ed=-1.69 Vc,Rd,Red=5323.73 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=35.17 Vc,Rd,Red=10647.50 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-590.70 T<sub>z</sub>=17.42 M<sub>y</sub>=-44.52 T<sub>y</sub>=-3.70 M<sub>x</sub>=30.95  
 Tensioni:  $\sigma_N$ =-42.93  $\sigma_M$ =-104.68  $\tau$ =59.56  $\sigma_{max}$ =-147.61  
 Tensioni:  $\sigma_N$ =-42.93  $\sigma_M$ =0.00  $\tau$ =61.81  $\tau_{max}$ =61.81  
 Tensioni:  $\sigma_N$ =-42.93  $\sigma_M$ =-104.68  $\tau$ =60.44  $\sigma_{ID,max}$ =180.96

Asta n. 4354 (-10877 -10805) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-577.12 M<sub>y</sub>,Ed=-98.58 M<sub>z</sub>,Ed=0.15  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.08+0.00=0.10  
 Verifica ZZ: 0.02+0.06+0.00=0.08

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-460.72 T<sub>z</sub>=-3.13 M<sub>y</sub>=-93.51 T<sub>y</sub>=-6.96 M<sub>z</sub>=-1.89 M<sub>x</sub>=48.87  
 Tensioni:  $\sigma_N$ =-33.48  $\sigma_M$ =-226.55  $\tau$ =94.04  $\sigma_{max}$ =-260.03  
 Tensioni:  $\sigma_N$ =-33.48  $\sigma_M$ =-205.20  $\tau$ =95.70  $\tau_{max}$ =95.70  
 Tensioni:  $\sigma_N$ =-33.48  $\sigma_M$ =-225.66  $\tau$ =95.42  $\sigma_{ID,max}$ =307.36

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.10

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Sollecitazioni:  $N=-532.13$   $T_z=-6.51$   $M_y=-77.54$   $T_y=-6.39$   $M_x=49.27$   
 $V,Ed=-6.39$   $V_c,Rd,Red=5492.09$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-6.51$   $V_c,Rd,Red=10984.20$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-507.27$   $T_z=-11.13$   $M_y=-44.68$   $T_y=-3.54$   $M_x=29.64$   
Tensioni:  $\sigma_N=-36.87$   $\sigma_M=-105.05$   $\tau=57.04$   $\sigma_{max}=-141.91$   
Tensioni:  $\sigma_N=-36.87$   $\sigma_M=0.00$   $\tau=58.48$   $\tau_{max}=58.48$   
Tensioni:  $\sigma_N=-36.87$   $\sigma_M=-105.05$   $\tau=57.88$   $\sigma_{ID,max}=173.75$

Asta n. 4354 (-10805 -10739) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-490.23$   $M_y,Ed=-98.20$   $M_z,Ed=0.19$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55359300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18388000.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.02+0.08+0.00=0.09$   
Verifica ZZ:  $0.02+0.06+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-330.51$   $T_z=-35.71$   $M_y=-93.51$   $T_y=-5.57$   $M_z=-1.37$   $M_x=44.18$   
Tensioni:  $\sigma_N=-24.02$   $\sigma_M=-224.69$   $\tau=85.02$   $\sigma_{max}=-248.71$   
Tensioni:  $\sigma_N=-24.02$   $\sigma_M=4.19$   $\tau=89.65$   $\tau_{max}=89.65$   
Tensioni:  $\sigma_N=-24.02$   $\sigma_M=-224.04$   $\tau=86.12$   $\sigma_{ID,max}=289.46$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-490.23$   $T_z=-45.44$   $M_y=-93.96$   $T_y=-5.52$   $M_x=49.70$   
 $V,Ed=-5.52$   $V_c,Rd,Red=5488.28$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-45.44$   $V_c,Rd,Red=10976.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-419.38$   $T_z=-24.64$   $M_y=-43.67$   $T_y=-3.67$   $M_x=27.97$   
Tensioni:  $\sigma_N=-30.48$   $\sigma_M=-102.66$   $\tau=53.82$   $\sigma_{max}=-133.14$   
Tensioni:  $\sigma_N=-30.48$   $\sigma_M=0.00$   $\tau=57.02$   $\tau_{max}=57.02$   
Tensioni:  $\sigma_N=-30.48$   $\sigma_M=-102.66$   $\tau=54.70$   $\sigma_{ID,max}=163.41$

Asta n. 4354 (-10739 -10657) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-399.43$   $M_y,Ed=-92.94$   $M_z,Ed=0.15$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55359300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18388000.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.07+0.00=0.09$   
Verifica ZZ:  $0.01+0.06+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-217.02$   $T_z=-77.41$   $M_y=-88.79$   $T_y=-3.20$   $M_z=-1.47$   $M_x=38.98$   
Tensioni:  $\sigma_N=-15.77$   $\sigma_M=-213.98$   $\tau=75.01$   $\sigma_{max}=-229.75$   
Tensioni:  $\sigma_N=-15.77$   $\sigma_M=4.52$   $\tau=85.05$   $\tau_{max}=85.05$   
Tensioni:  $\sigma_N=-15.77$   $\sigma_M=-213.98$   $\tau=75.01$   $\sigma_{ID,max}=263.94$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-379.76$   $T_z=-85.83$   $M_y=-82.12$   $T_y=-4.55$   $M_x=62.39$   
 $V,Ed=-4.55$   $V_c,Rd,Red=5376.23$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-85.83$   $V_c,Rd,Red=10752.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-330.99$   $T_z=-40.37$   $M_y=-40.70$   $T_y=-3.45$   $M_x=26.19$

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Tensioni:  $\sigma_N=-24.05$   $\sigma_M=-95.69$   $\tau=50.40$   $\sigma_{max}=-119.74$   
 Tensioni:  $\sigma_N=-24.05$   $\sigma_M=0.00$   $\tau=55.64$   $\tau_{max}=55.64$   
 Tensioni:  $\sigma_N=-24.05$   $\sigma_M=-95.69$   $\tau=51.22$   $\sigma_{ID,max}=149.03$

Asta n. 4354 (-10657 -10629) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-308.07 My,Ed=-82.51 Mz,Ed=-0.21  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.07+0.00=0.08  
 Verifica ZZ: 0.01+0.05+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-126.66 Tz=-116.56 My=-79.04 Ty=-1.51 Mz=-1.43 Mx=33.94  
 Tensioni:  $\sigma_N=-9.20$   $\sigma_M=-190.90$   $\tau=65.30$   $\sigma_{max}=-200.10$   
 Tensioni:  $\sigma_N=-9.20$   $\sigma_M=4.39$   $\tau=80.41$   $\tau_{max}=80.41$   
 Tensioni:  $\sigma_N=-9.20$   $\sigma_M=-190.90$   $\tau=65.30$   $\sigma_{ID,max}=229.86$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-298.08 Tz=-126.17 My=-68.10 Ty=-5.43 Mx=56.91  
 V,Ed=-5.43 Vc,Rd,Red=5424.58 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-126.17 Vc,Rd,Red=10849.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-245.31 Tz=-56.00 My=-35.69 Ty=-3.61 Mx=24.52  
 Tensioni:  $\sigma_N=-17.83$   $\sigma_M=-83.92$   $\tau=47.19$   $\sigma_{max}=-101.75$   
 Tensioni:  $\sigma_N=-17.83$   $\sigma_M=0.00$   $\tau=54.45$   $\tau_{max}=54.45$   
 Tensioni:  $\sigma_N=-17.83$   $\sigma_M=-83.92$   $\tau=48.05$   $\sigma_{ID,max}=131.45$

Asta n. 4354 (-10629 -10453) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-214.48 My,Ed=-67.21 Mz,Ed=-0.49  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.05+0.00=0.06  
 Verifica ZZ: 0.01+0.04+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-58.93 Tz=-154.65 My=-64.59 Mz=-1.27 Mx=29.48  
 Tensioni:  $\sigma_N=-4.28$   $\sigma_M=-156.35$   $\tau=56.72$   $\sigma_{max}=-160.64$   
 Tensioni:  $\sigma_N=-4.28$   $\sigma_M=3.90$   $\tau=76.77$   $\tau_{max}=76.77$   
 Tensioni:  $\sigma_N=-4.28$   $\sigma_M=-156.35$   $\tau=56.72$   $\sigma_{ID,max}=188.30$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
 Sollecitazioni: N=-211.07 Tz=-164.95 My=-49.40 Ty=-8.57 Mx=52.09  
 V,Ed=-8.57 Vc,Rd,Red=5467.18 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-164.95 Vc,Rd,Red=10934.40 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-163.45 Tz=-70.95 My=-28.77 Ty=-4.86 Mx=23.10  
 Tensioni:  $\sigma_N=-11.88$   $\sigma_M=-67.64$   $\tau=44.44$   $\sigma_{max}=-79.52$   
 Tensioni:  $\sigma_N=-11.88$   $\sigma_M=0.00$   $\tau=53.64$   $\tau_{max}=53.64$   
 Tensioni:  $\sigma_N=-11.88$   $\sigma_M=-63.13$   $\tau=49.28$   $\sigma_{ID,max}=113.64$

Asta n. 4354 (-10453 -10385) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-117.70 My,Ed=-47.40 Mz,Ed=-1.54

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.04+0.00=0.04

Verifica ZZ: 0.00+0.03+0.00=0.04

- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-116.84 Tz=-190.81 My=-27.43 Ty=-17.99 Mz=-1.53 Mx=48.67  
Tensioni:  $\sigma_N=-8.49$   $\sigma_M=-69.91$   $\tau=93.65$   $\sigma_{max}=-78.40$   
Tensioni:  $\sigma_N=-8.49$   $\sigma_M=4.69$   $\tau=118.38$   $\tau_{max}=118.38$   
Tensioni:  $\sigma_N=-8.49$   $\sigma_M=4.69$   $\tau=118.38$   $\sigma_{ID,max}=205.08$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.06  
Sollecitazioni: N=-116.82 Tz=-189.30 My=-34.19 Ty=-16.45 Mx=48.67  
V,Ed=-16.45 Vc,Rd,Red=5497.38 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-189.30 Vc,Rd,Red=10994.80 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-86.24 Tz=-81.68 My=-20.09 Mx=22.12  
Tensioni:  $\sigma_N=-6.27$   $\sigma_M=-47.23$   $\tau=42.56$   $\sigma_{max}=-53.50$   
Tensioni:  $\sigma_N=-6.27$   $\sigma_M=0.00$   $\tau=53.15$   $\tau_{max}=53.15$   
Tensioni:  $\sigma_N=-6.27$   $\sigma_M=-44.08$   $\tau=48.13$   $\sigma_{ID,max}=97.39$

Asta n. 4354 (-10385 -10349) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-22.78 My,Ed=-24.54 Mz,Ed=-4.08

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.02+0.01=0.03

Verifica ZZ: 0.00+0.02+0.01=0.02

- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-20.73 Tz=-213.52 My=-2.81 Ty=-35.06 Mz=-4.33 Mx=46.60  
Tensioni:  $\sigma_N=-1.51$   $\sigma_M=-21.94$   $\tau=89.67$   $\sigma_{max}=-23.45$   
Tensioni:  $\sigma_N=-1.51$   $\sigma_M=13.29$   $\tau=117.35$   $\tau_{max}=117.35$   
Tensioni:  $\sigma_N=-1.51$   $\sigma_M=15.34$   $\tau=117.35$   $\sigma_{ID,max}=203.73$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00  
Sollecitazioni: N=-16.79 Tz=-209.35 My=-23.84 Ty=-28.66 Mx=37.87  
V,Ed=-28.66 Vc,Rd,Red=5592.63 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-209.35 Vc,Rd,Red=11185.30 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=4.54 Tz=-94.49 My=-1.41 Ty=-19.50 Mz=-2.83 Mx=21.56  
Tensioni:  $\sigma_N=0.33$   $\sigma_M=13.33$   $\tau=41.48$   $\sigma_{max}=13.66$   
Tensioni:  $\sigma_N=0.33$   $\sigma_M=8.68$   $\tau=53.73$   $\tau_{max}=53.73$   
Tensioni:  $\sigma_N=0.33$   $\sigma_M=10.01$   $\tau=53.73$   $\sigma_{ID,max}=93.63$

Asta n. 4360 (-10307 -10381) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-23.63 My,Ed=-19.31 Mz,Ed=3.41

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.02+0.01=0.02

Verifica ZZ: 0.00+0.01+0.01=0.02

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=17.93$   $T_z=168.81$   $M_y=-3.21$   $T_y=-8.91$   $M_z=1.88$   $M_x=23.15$   
 Tensioni:  $\sigma_N=1.30$   $\sigma_M=14.21$   $\tau=44.54$   $\sigma_{max}=15.52$   
 Tensioni:  $\sigma_N=1.30$   $\sigma_M=5.78$   $\tau=66.42$   $\tau_{max}=66.42$   
 Tensioni:  $\sigma_N=1.30$   $\sigma_M=6.67$   $\tau=66.42$   $\sigma_{ID,max}=115.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.09$   
 Sollecitazioni:  $N=-21.36$   $T_z=162.32$   $M_y=-17.93$   $T_y=-23.65$   $M_x=20.57$   
 $V,Ed=-23.65$   $Vc,Rd,Red=5745.32$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=162.32$   $Vc,Rd,Red=11490.60$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=2.26$   $T_z=78.79$   $M_y=-1.22$   $T_y=-17.20$   $M_z=2.36$   $M_x=18.43$   
 Tensioni:  $\sigma_N=0.16$   $\sigma_M=11.21$   $\tau=35.47$   $\sigma_{max}=11.37$   
 Tensioni:  $\sigma_N=0.16$   $\sigma_M=7.22$   $\tau=45.68$   $\tau_{max}=45.68$   
 Tensioni:  $\sigma_N=0.16$   $\sigma_M=8.34$   $\tau=45.68$   $\sigma_{ID,max}=79.58$

Asta n. 4360 (-10381 -10451) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-105.93$   $M_y,Ed=-35.93$   $M_z,Ed=1.26$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.03+0.00=0.03$   
 Verifica ZZ:  $0.00+0.02+0.00=0.03$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7.99$   $T_z=136.01$   $M_y=-36.13$   $T_y=-1.65$   $M_z=1.04$   $M_x=25.19$   
 Tensioni:  $\sigma_N=-0.58$   $\sigma_M=-88.64$   $\tau=48.47$   $\sigma_{max}=-89.23$   
 Tensioni:  $\sigma_N=-0.58$   $\sigma_M=3.69$   $\tau=66.10$   $\tau_{max}=66.10$   
 Tensioni:  $\sigma_N=-0.58$   $\sigma_M=82.98$   $\tau=57.74$   $\sigma_{ID,max}=129.58$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.01$   
 Sollecitazioni:  $N=-96.16$   $T_z=140.59$   $M_y=-23.74$   $T_y=-11.27$   $M_x=22.58$   
 $V,Ed=-11.27$   $Vc,Rd,Red=5727.61$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=140.59$   $Vc,Rd,Red=11455.20$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-73.48$   $T_z=66.54$   $M_y=-16.53$   $M_x=18.95$   
 Tensioni:  $\sigma_N=-5.34$   $\sigma_M=-38.87$   $\tau=36.47$   $\sigma_{max}=-44.21$   
 Tensioni:  $\sigma_N=-5.34$   $\sigma_M=0.00$   $\tau=45.10$   $\tau_{max}=45.10$   
 Tensioni:  $\sigma_N=-5.34$   $\sigma_M=-36.28$   $\tau=41.01$   $\sigma_{ID,max}=82.33$

Asta n. 4360 (-10451 -10518) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-190.18$   $M_y,Ed=-49.80$   $M_z,Ed=0.42$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.04+0.00=0.05$   
 Verifica ZZ:  $0.01+0.03+0.00=0.04$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-48.35$   $T_z=110.58$   $M_y=-49.86$   $M_z=1.28$   $M_x=28.39$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=-121.78$   $\tau=54.64$   $\sigma_{max}=-125.29$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=4.54$   $\tau=68.97$   $\tau_{max}=68.97$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=-121.78$   $\tau=54.64$   $\sigma_{ID,max}=157.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-170.87$   $T_z=115.40$   $M_y=-38.63$   $T_y=-4.67$   $M_x=25.77$



V,Ed=-4.67 Vc,Rd,Red=5699.46 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=115.40 Vc,Rd,Red=11398.90 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-134.25 T<sub>z</sub>=57.92 M<sub>y</sub>=-23.66 M<sub>x</sub>=19.80  
Tensioni:  $\sigma_N$ =-9.76  $\sigma_M$ =-55.62  $\tau$ =38.10  $\sigma_{max}$ =-65.37  
Tensioni:  $\sigma_N$ =-9.76  $\sigma_M$ =0.00  $\tau$ =45.61  $\tau_{max}$ =45.61  
Tensioni:  $\sigma_N$ =-9.76  $\sigma_M$ =-51.91  $\tau$ =42.05  $\sigma_{ID,max}$ =95.44

Asta n. 4360 (-10518 -10627) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-273.49 M<sub>y</sub>,Ed=-59.31 M<sub>z</sub>,Ed=0.21  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358100.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387600.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.05+0.00=0.06  
Verifica ZZ: 0.01+0.04+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-111.13 T<sub>z</sub>=70.94 M<sub>y</sub>=-58.99 T<sub>y</sub>=-1.04 M<sub>z</sub>=1.48 M<sub>x</sub>=32.98  
Tensioni:  $\sigma_N$ =-8.08  $\sigma_M$ =-143.91  $\tau$ =63.46  $\sigma_{max}$ =-151.99  
Tensioni:  $\sigma_N$ =-8.08  $\sigma_M$ =5.23  $\tau$ =72.65  $\tau_{max}$ =72.65  
Tensioni:  $\sigma_N$ =-8.08  $\sigma_M$ =-143.91  $\tau$ =63.46  $\sigma_{ID,max}$ =187.56

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-273.49 T<sub>z</sub>=77.50 M<sub>y</sub>=-51.78 T<sub>y</sub>=-5.16 M<sub>x</sub>=30.83  
V,Ed=-5.16 Vc,Rd,Red=5654.76 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=77.50 Vc,Rd,Red=11309.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-195.07 T<sub>z</sub>=44.78 M<sub>y</sub>=-29.24 T<sub>y</sub>=-2.51 M<sub>x</sub>=21.06  
Tensioni:  $\sigma_N$ =-14.18  $\sigma_M$ =-68.75  $\tau$ =40.52  $\sigma_{max}$ =-82.93  
Tensioni:  $\sigma_N$ =-14.18  $\sigma_M$ =0.00  $\tau$ =46.32  $\tau_{max}$ =46.32  
Tensioni:  $\sigma_N$ =-14.18  $\sigma_M$ =-68.75  $\tau$ =41.11  $\sigma_{ID,max}$ =109.30

Asta n. 4360 (-10627 -10718) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-356.45 M<sub>y</sub>,Ed=-64.28 M<sub>z</sub>,Ed=0.18  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358000.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387600.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.05+0.00=0.06  
Verifica ZZ: 0.01+0.04+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-198.51 T<sub>z</sub>=32.61 M<sub>y</sub>=-63.46 T<sub>y</sub>=-3.56 M<sub>z</sub>=1.47 M<sub>x</sub>=38.08  
Tensioni:  $\sigma_N$ =-14.43  $\sigma_M$ =-154.41  $\tau$ =73.27  $\sigma_{max}$ =-168.84  
Tensioni:  $\sigma_N$ =-14.43  $\sigma_M$ =4.51  $\tau$ =77.50  $\tau_{max}$ =77.50  
Tensioni:  $\sigma_N$ =-14.43  $\sigma_M$ =-153.72  $\tau$ =73.98  $\sigma_{ID,max}$ =211.40

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-356.45 T<sub>z</sub>=40.13 M<sub>y</sub>=-60.40 T<sub>y</sub>=-5.30 M<sub>x</sub>=36.31  
V,Ed=-5.30 Vc,Rd,Red=5606.46 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=40.13 Vc,Rd,Red=11212.90 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-255.85 T<sub>z</sub>=32.02 M<sub>y</sub>=-33.26 T<sub>y</sub>=-2.29 M<sub>x</sub>=22.47  
Tensioni:  $\sigma_N$ =-18.59  $\sigma_M$ =-78.19  $\tau$ =43.24  $\sigma_{max}$ =-96.79

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Tensioni:  $\sigma_N=-18.59$   $\sigma_M=0.00$   $\tau=47.39$   $\tau_{max}=47.39$   
 Tensioni:  $\sigma_N=-18.59$   $\sigma_M=-78.19$   $\tau=43.78$   $\sigma_{ID,max}=122.96$

Asta n. 4360 (-10718 -10804) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-439.14 My,Ed=-64.43 Mz,Ed=-0.15  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}, \alpha_{Mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.05+0.00=0.07  
 Verifica ZZ: 0.01+0.04+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-309.75 Tz=-4.69 My=-63.51 Ty=-5.44 Mz=1.91 Mx=43.40  
 Tensioni:  $\sigma_N=-22.51$   $\sigma_M=-156.08$   $\tau=83.51$   $\sigma_{max}=-178.59$   
 Tensioni:  $\sigma_N=-22.51$   $\sigma_M=-139.36$   $\tau=84.80$   $\tau_{max}=84.80$   
 Tensioni:  $\sigma_N=-22.51$   $\sigma_M=-155.18$   $\tau=84.59$   $\sigma_{ID,max}=230.30$

- Verifica a taglio dir. Y [4.2.16] - CC 89 SLU Xl=0.00  
 Sollecitazioni: N=-212.50 Tz=21.73 My=-36.16 Ty=-3.75  
 V,Ed=-3.75 Vc,Rd=5926.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=21.73 Vc,Rd=11853.80 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-316.36 Tz=-25.27 My=-35.53 Ty=-2.16 Mz=24.00  
 Tensioni:  $\sigma_N=-22.99$   $\sigma_M=-83.52$   $\tau=46.18$   $\sigma_{max}=-106.52$   
 Tensioni:  $\sigma_N=-22.99$   $\sigma_M=0.00$   $\tau=49.45$   $\tau_{max}=49.45$   
 Tensioni:  $\sigma_N=-22.99$   $\sigma_M=-83.52$   $\tau=46.69$   $\sigma_{ID,max}=133.74$

Asta n. 4360 (-10804 -10873) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-517.55 My,Ed=-63.50 Mz,Ed=-0.15  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}, \alpha_{Mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.05+0.00=0.07  
 Verifica ZZ: 0.02+0.04+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-437.37 Tz=-41.96 My=-61.87 Ty=-7.22 Mz=1.89 Mx=48.12  
 Tensioni:  $\sigma_N=-31.79$   $\sigma_M=-152.15$   $\tau=92.60$   $\sigma_{max}=-183.94$   
 Tensioni:  $\sigma_N=-31.79$   $\sigma_M=-5.80$   $\tau=98.04$   $\tau_{max}=98.04$   
 Tensioni:  $\sigma_N=-31.79$   $\sigma_M=-151.26$   $\tau=94.04$   $\sigma_{ID,max}=245.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-448.82 Tz=-47.78 My=-57.22 Ty=-2.26 Mz=45.38  
 V,Ed=-2.26 Vc,Rd,Red=5526.42 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-47.78 Vc,Rd,Red=11052.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-374.80 Tz=-36.77 My=-36.21 Ty=-2.05 Mz=25.39  
 Tensioni:  $\sigma_N=-27.24$   $\sigma_M=-85.13$   $\tau=48.86$   $\sigma_{max}=-112.36$   
 Tensioni:  $\sigma_N=-27.24$   $\sigma_M=0.00$   $\tau=53.62$   $\tau_{max}=53.62$   
 Tensioni:  $\sigma_N=-27.24$   $\sigma_M=-85.13$   $\tau=49.35$   $\sigma_{ID,max}=141.18$

Asta n. 4360 (-10873 -10944) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-586.38 My,Ed=-58.23 Mz,Ed=0.14  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.02+0.05+0.00=0.07

Verifica ZZ: 0.02+0.04+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-571.03 Tz=-75.14 My=-55.75 Ty=-8.45 Mz=1.78 Mx=51.83  
 Tensioni:  $\sigma_N=-41.50$   $\sigma_M=-137.37$   $\tau=99.72$   $\sigma_{max}=-178.87$   
 Tensioni:  $\sigma_N=-41.50$   $\sigma_M=-5.45$   $\tau=109.47$   $\tau_{max}=109.47$   
 Tensioni:  $\sigma_N=-41.50$   $\sigma_M=-136.53$   $\tau=101.40$   $\sigma_{ID,max}=250.08$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-570.94 Tz=-80.96 My=-48.13 Ty=-8.45 Mz=51.83  
 V,Ed=-8.45 Vc,Rd,Red=5469.50 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-80.96 Vc,Rd,Red=10939.00 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-429.07 Tz=-43.69 My=-36.03 Ty=-1.95 Mz=26.51  
 Tensioni:  $\sigma_N=-31.18$   $\sigma_M=-84.71$   $\tau=51.02$   $\sigma_{max}=-115.89$   
 Tensioni:  $\sigma_N=-31.18$   $\sigma_M=0.00$   $\tau=56.68$   $\tau_{max}=56.68$   
 Tensioni:  $\sigma_N=-31.18$   $\sigma_M=-84.71$   $\tau=51.48$   $\sigma_{ID,max}=146.22$

Asta n. 4360 (-10944 -11011) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-697.50 My,Ed=-45.80 Mz,Ed=1.59  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.02+0.04+0.00=0.06

Verifica ZZ: 0.02+0.03+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-697.50 Tz=-96.49 My=-45.80 Ty=-12.81 Mz=1.59 Mx=53.92  
 Tensioni:  $\sigma_N=-50.69$   $\sigma_M=-113.29$   $\tau=103.75$   $\sigma_{max}=-163.98$   
 Tensioni:  $\sigma_N=-50.69$   $\sigma_M=-4.87$   $\tau=116.26$   $\tau_{max}=116.26$   
 Tensioni:  $\sigma_N=-50.69$   $\sigma_M=-106.11$   $\tau=110.33$   $\sigma_{ID,max}=247.19$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-697.40 Tz=-102.32 My=-36.08 Ty=-12.81 Mz=53.92  
 V,Ed=-12.81 Vc,Rd,Red=5451.05 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-102.32 Vc,Rd,Red=10902.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-477.20 Tz=-51.53 My=-35.08 Ty=-3.72 Mz=27.16  
 Tensioni:  $\sigma_N=-34.68$   $\sigma_M=-82.48$   $\tau=52.27$   $\sigma_{max}=-117.17$   
 Tensioni:  $\sigma_N=-34.68$   $\sigma_M=0.00$   $\tau=58.95$   $\tau_{max}=58.95$   
 Tensioni:  $\sigma_N=-34.68$   $\sigma_M=-82.48$   $\tau=53.15$   $\sigma_{ID,max}=149.01$

Asta n. 4360 (-11011 -11088) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-796.75 My,Ed=-33.60 Mz,Ed=1.07  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.03+0.03+0.00=0.05

Verifica ZZ: 0.03+0.02+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3

Sollecitazioni:  $N=-796.75$   $T_z=-101.32$   $M_y=-33.60$   $T_y=-11.58$   $M_z=1.07$   $M_x=54.26$

Tensioni:  $\sigma_N=-57.90$   $\sigma_M=-82.77$   $\tau=104.42$   $\sigma_{max}=-140.67$

Tensioni:  $\sigma_N=-57.90$   $\sigma_M=-3.27$   $\tau=117.55$   $\tau_{max}=117.55$

Tensioni:  $\sigma_N=-57.90$   $\sigma_M=-77.50$   $\tau=111.33$   $\sigma_{ID,max}=235.61$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.10$

Sollecitazioni:  $N=-796.66$   $T_z=-107.15$   $M_y=-23.41$   $T_y=-11.58$   $M_x=54.26$

$V,Ed=-11.58$   $V_c,Rd,Red=5447.98$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-107.15$   $V_c,Rd,Red=10896.00$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-517.67$   $T_z=-54.25$   $M_y=-33.27$   $T_y=-9.93$   $M_x=27.25$

Tensioni:  $\sigma_N=-37.62$   $\sigma_M=-78.22$   $\tau=52.44$   $\sigma_{max}=-115.84$

Tensioni:  $\sigma_N=-37.62$   $\sigma_M=0.00$   $\tau=59.47$   $\tau_{max}=59.47$

Tensioni:  $\sigma_N=-37.62$   $\sigma_M=-78.22$   $\tau=54.80$   $\sigma_{ID,max}=149.76$

Asta n. 4360 (-11088 -11154) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-1902.61$   $M_y,Ed=-32.87$   $M_z,Ed=8.22$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.06+0.03+0.01=0.10$

Verifica ZZ:  $0.06+0.02+0.01=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-1902.52$   $T_z=121.16$   $M_y=-32.87$   $T_y=-70.14$   $M_z=1.36$   $M_x=15.59$

Tensioni:  $\sigma_N=-138.26$   $\sigma_M=-82.10$   $\tau=29.99$   $\sigma_{max}=-220.37$

Tensioni:  $\sigma_N=-138.26$   $\sigma_M=-72.14$   $\tau=46.70$   $\tau_{max}=46.70$

Tensioni:  $\sigma_N=-138.26$   $\sigma_M=-81.46$   $\tau=43.89$   $\sigma_{ID,max}=232.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$

Sollecitazioni:  $N=-896.11$   $T_z=152.43$   $M_y=-40.04$   $T_y=-32.53$   $M_x=14.88$

$V,Ed=-32.53$   $V_c,Rd,Red=5795.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=152.43$   $V_c,Rd,Red=11591.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-779.79$   $T_z=73.69$   $M_y=-36.95$   $T_y=-21.37$   $M_x=15.39$

Tensioni:  $\sigma_N=-56.67$   $\sigma_M=-86.88$   $\tau=29.61$   $\sigma_{max}=-143.55$

Tensioni:  $\sigma_N=-56.67$   $\sigma_M=0.00$   $\tau=39.16$   $\tau_{max}=39.16$

Tensioni:  $\sigma_N=-56.67$   $\sigma_M=-86.88$   $\tau=34.70$   $\sigma_{ID,max}=155.62$

Asta n. 4360 (-11154 -11220) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-2074.78$   $M_y,Ed=-47.32$   $M_z,Ed=2.33$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.07+0.04+0.00=0.11$

Verifica ZZ:  $0.07+0.03+0.00=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.06$  - Classe 3

Sollecitazioni:  $N=-2074.73$   $T_z=121.54$   $M_y=-43.04$   $T_y=-19.55$   $M_z=1.12$   $M_x=15.54$

Tensioni:  $\sigma_N=-150.78$   $\sigma_M=-105.14$   $\tau=29.90$   $\sigma_{max}=-255.92$

Tensioni:  $\sigma_N=-150.78$   $\sigma_M=3.42$   $\tau=45.65$   $\tau_{max}=45.65$

Tensioni:  $\sigma_N=-150.78$   $\sigma_M=-104.61$   $\tau=33.77$   $\sigma_{ID,max}=262.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.04$

Sollecitazioni:  $N=-1009.73$   $T_z=156.10$   $M_y=-48.79$   $T_y=-16.27$   $M_x=14.83$

$V,Ed=-16.27$   $V_c,Rd,Red=5796.02$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=156.10 Vc,Rd,Red=11592.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-857.16 Tz=71.27 My=-43.48 Ty=-10.72 Mx=15.37  
Tensioni:  $\sigma_N=-62.29$   $\sigma_M=-102.22$   $\tau=29.58$   $\sigma_{max}=-164.51$   
Tensioni:  $\sigma_N=-62.29$   $\sigma_M=0.00$   $\tau=38.82$   $\tau_{max}=38.82$   
Tensioni:  $\sigma_N=-62.29$   $\sigma_M=-102.22$   $\tau=32.13$   $\sigma_{ID,max}=173.68$

Asta n. 4360 (-11220 -11286) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-1934.28 My,Ed=-74.45 Mz,Ed=1.00  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.06+0.00=0.12  
Verifica ZZ: 0.06+0.05+0.00=0.11

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-2260.24 Tz=107.34 My=-53.61 Ty=-8.72 Mz=1.02 Mx=16.82  
Tensioni:  $\sigma_N=-164.26$   $\sigma_M=-129.66$   $\tau=32.37$   $\sigma_{max}=-293.92$   
Tensioni:  $\sigma_N=-164.26$   $\sigma_M=3.13$   $\tau=46.28$   $\tau_{max}=46.28$   
Tensioni:  $\sigma_N=-164.26$   $\sigma_M=-129.18$   $\tau=34.10$   $\sigma_{ID,max}=299.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-1128.09 Tz=138.13 My=-61.50 Ty=-7.92 Mx=16.53  
V,Ed=-7.92 Vc,Rd,Red=5781.03 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=138.13 Vc,Rd,Red=11562.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-941.88 Tz=61.74 My=-49.46 Ty=-5.47 Mx=15.90  
Tensioni:  $\sigma_N=-68.45$   $\sigma_M=-116.28$   $\tau=30.61$   $\sigma_{max}=-184.73$   
Tensioni:  $\sigma_N=-68.45$   $\sigma_M=0.00$   $\tau=38.61$   $\tau_{max}=38.61$   
Tensioni:  $\sigma_N=-68.45$   $\sigma_M=-116.28$   $\tau=31.91$   $\sigma_{ID,max}=192.82$

Asta n. 4360 (-11286 -11358) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-2105.62 My,Ed=-86.92 Mz,Ed=0.73  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.07+0.07+0.00=0.14  
Verifica ZZ: 0.07+0.06+0.00=0.13

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.03 - Classe 3  
Sollecitazioni: N=-2451.30 Tz=81.68 My=-64.35 Ty=-6.83 Mz=1.01 Mx=19.35  
Tensioni:  $\sigma_N=-178.15$   $\sigma_M=-154.86$   $\tau=37.23$   $\sigma_{max}=-333.01$   
Tensioni:  $\sigma_N=-178.15$   $\sigma_M=3.10$   $\tau=47.82$   $\tau_{max}=47.82$   
Tensioni:  $\sigma_N=-178.15$   $\sigma_M=-154.86$   $\tau=37.23$   $\sigma_{ID,max}=339.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-1238.80 Tz=107.41 My=-77.27 Ty=-4.69 Mx=19.73  
V,Ed=-4.69 Vc,Rd,Red=5752.74 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=107.41 Vc,Rd,Red=11505.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1026.76 Tz=48.23 My=-54.15 Ty=-3.63 Mx=16.93  
Tensioni:  $\sigma_N=-74.62$   $\sigma_M=-127.33$   $\tau=32.59$   $\sigma_{max}=-201.94$   
Tensioni:  $\sigma_N=-74.62$   $\sigma_M=0.00$   $\tau=38.84$   $\tau_{max}=38.84$

Tensioni:  $\sigma_N=-74.62$   $\sigma_M=-127.33$   $\tau=33.45$   $\sigma_{ID,max}=210.09$

Asta n. 4360 (-11358 -11424) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2269.53 My,Ed=-95.06 Mz,Ed=0.62

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.08+0.00=0.15

Verifica ZZ: 0.07+0.06+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3

Sollecitazioni: N=-2639.49 Tz=53.38 My=-72.29 Ty=-5.70 Mz=1.02 Mx=22.63

Tensioni:  $\sigma_N=-191.82$   $\sigma_M=-173.57$   $\tau=43.54$   $\sigma_{max}=-365.39$

Tensioni:  $\sigma_N=-191.82$   $\sigma_M=3.14$   $\tau=50.46$   $\tau_{max}=50.46$

Tensioni:  $\sigma_N=-191.82$   $\sigma_M=-173.57$   $\tau=43.54$   $\sigma_{ID,max}=373.10$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-1338.32 Tz=70.96 My=-89.24 Ty=-2.91 Mz=23.95

V,Ed=-2.91 Vc,Rd,Red=5715.56 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=70.96 Vc,Rd,Red=11431.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1108.69 Tz=33.64 My=-57.15 Ty=-2.71 Mz=18.31

Tensioni:  $\sigma_N=-80.57$   $\sigma_M=-134.38$   $\tau=35.23$   $\sigma_{max}=-214.95$

Tensioni:  $\sigma_N=-80.57$   $\sigma_M=0.00$   $\tau=39.59$   $\tau_{max}=39.59$

Tensioni:  $\sigma_N=-80.57$   $\sigma_M=-134.38$   $\tau=35.88$   $\sigma_{ID,max}=223.75$

Asta n. 4360 (-11424 -11494) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2423.81 My,Ed=-98.28 Mz,Ed=0.60

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.08+0.08+0.00=0.16

Verifica ZZ: 0.08+0.06+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3

Sollecitazioni: N=-2821.10 Tz=19.70 My=-77.31 Ty=-5.10 Mz=1.01 Mx=26.28

Tensioni:  $\sigma_N=-205.02$   $\sigma_M=-185.34$   $\tau=50.57$   $\sigma_{max}=-390.36$

Tensioni:  $\sigma_N=-205.02$   $\sigma_M=3.10$   $\tau=53.12$   $\tau_{max}=53.12$

Tensioni:  $\sigma_N=-205.02$   $\sigma_M=-185.34$   $\tau=50.57$   $\sigma_{ID,max}=400.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-1426.73 Tz=30.77 My=-96.74 Ty=-2.20 Mz=28.57

V,Ed=-2.20 Vc,Rd,Red=5674.71 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=30.77 Vc,Rd,Red=11349.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1186.60 Tz=18.55 My=-58.16 Ty=-2.26 Mz=19.88

Tensioni:  $\sigma_N=-86.24$   $\sigma_M=-136.75$   $\tau=38.25$   $\sigma_{max}=-222.98$

Tensioni:  $\sigma_N=-86.24$   $\sigma_M=0.00$   $\tau=40.65$   $\tau_{max}=40.65$

Tensioni:  $\sigma_N=-86.24$   $\sigma_M=-136.75$   $\tau=38.78$   $\sigma_{ID,max}=232.88$

Asta n. 4360 (-11494 -11564) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni: N,Ed=-2566.77 My,Ed=-98.14 Mz,Ed=0.67

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

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$\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.08+0.08+0.00=0.16  
Verifica ZZ: 0.08+0.06+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2993.94 T<sub>z</sub>=-8.37 M<sub>y</sub>=-78.53 T<sub>y</sub>=-4.33 M<sub>z</sub>=1.16 M<sub>x</sub>=29.63  
Tensioni:  $\sigma_N=-217.58$   $\sigma_M=-188.72$   $\tau=57.02$   $\sigma_{max}=-406.30$   
Tensioni:  $\sigma_N=-217.58$   $\sigma_M=-3.54$   $\tau=58.11$   $\tau_{max}=58.11$   
Tensioni:  $\sigma_N=-217.58$   $\sigma_M=-188.72$   $\tau=57.02$   $\sigma_{ID,max}=418.13$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-525.26 T<sub>z</sub>=-18.57 M<sub>y</sub>=-45.86 T<sub>y</sub>=-2.74 M<sub>z</sub>=-12.96  
V,Ed=-2.74 Vc,Rd,Red=5812.55 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-18.57 Vc,Rd,Red=11625.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1259.63 T<sub>z</sub>=10.81 M<sub>y</sub>=-58.03 T<sub>y</sub>=-1.66 M<sub>z</sub>=21.37  
Tensioni:  $\sigma_N=-91.54$   $\sigma_M=-136.44$   $\tau=41.11$   $\sigma_{max}=-227.98$   
Tensioni:  $\sigma_N=-91.54$   $\sigma_M=0.00$   $\tau=42.51$   $\tau_{max}=42.51$   
Tensioni:  $\sigma_N=-91.54$   $\sigma_M=-136.44$   $\tau=41.51$   $\sigma_{ID,max}=239.05$

Asta n. 4360 (-11564 -11634) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-3155.59 M<sub>y,Ed</sub>=-76.59 M<sub>z,Ed</sub>=1.29  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358100.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.06+0.00=0.17  
Verifica ZZ: 0.10+0.05+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-3155.59 T<sub>z</sub>=-36.35 M<sub>y</sub>=-76.59 T<sub>y</sub>=-6.41 M<sub>z</sub>=1.29 M<sub>x</sub>=32.35  
Tensioni:  $\sigma_N=-229.33$   $\sigma_M=-184.63$   $\tau=62.25$   $\sigma_{max}=-413.96$   
Tensioni:  $\sigma_N=-229.33$   $\sigma_M=-3.95$   $\tau=66.96$   $\tau_{max}=66.96$   
Tensioni:  $\sigma_N=-229.33$   $\sigma_M=-184.63$   $\tau=62.25$   $\sigma_{ID,max}=427.77$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-2695.48 T<sub>z</sub>=-48.12 M<sub>y</sub>=-91.61 T<sub>y</sub>=-3.88 M<sub>z</sub>=38.22  
V,Ed=-3.88 Vc,Rd,Red=5589.57 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-48.12 Vc,Rd,Red=11179.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1325.99 T<sub>z</sub>=-22.41 M<sub>y</sub>=-56.76 T<sub>y</sub>=-1.79 M<sub>z</sub>=22.58  
Tensioni:  $\sigma_N=-96.37$   $\sigma_M=-133.46$   $\tau=43.45$   $\sigma_{max}=-229.82$   
Tensioni:  $\sigma_N=-96.37$   $\sigma_M=0.00$   $\tau=46.36$   $\tau_{max}=46.36$   
Tensioni:  $\sigma_N=-96.37$   $\sigma_M=-133.46$   $\tau=43.88$   $\sigma_{ID,max}=242.06$

Asta n. 4360 (-11634 -11682) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-3312.42 M<sub>y,Ed</sub>=-71.41 M<sub>z,Ed</sub>=1.39  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.06+0.00=0.17  
Verifica ZZ: 0.11+0.05+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2815.79 T<sub>z</sub>=-63.65 M<sub>y</sub>=-90.01 T<sub>y</sub>=-12.61 M<sub>z</sub>=1.05 M<sub>x</sub>=40.19

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Tensioni:  $\sigma_N=-204.64$   $\sigma_M=-215.34$   $\tau=77.34$   $\sigma_{max}=-419.98$   
 Tensioni:  $\sigma_N=-204.64$   $\sigma_M=-3.22$   $\tau=85.59$   $\tau_{max}=85.59$   
 Tensioni:  $\sigma_N=-204.64$   $\sigma_M=-214.85$   $\tau=79.84$   $\sigma_{ID,max}=441.69$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-2815.69$   $T_z=-69.48$   $M_y=-83.50$   $T_y=-12.61$   $M_x=40.19$   
 $V,Ed=-12.61$   $Vc,Rd,Red=5572.18$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-69.48$   $Vc,Rd,Red=11144.40$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1387.85$   $T_z=-32.71$   $M_y=-53.77$   $T_y=-5.72$   $M_x=23.27$   
 Tensioni:  $\sigma_N=-100.86$   $\sigma_M=-126.42$   $\tau=44.78$   $\sigma_{max}=-227.28$   
 Tensioni:  $\sigma_N=-100.86$   $\sigma_M=0.00$   $\tau=49.02$   $\tau_{max}=49.02$   
 Tensioni:  $\sigma_N=-100.86$   $\sigma_M=-126.42$   $\tau=46.15$   $\sigma_{ID,max}=240.93$

Asta n. 4360 (-11682 -11772) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3457.17$   $M_y,Ed=-64.38$   $M_z,Ed=-5.76$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, $y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, $z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.11+0.05+0.01=0.17$   
 Verifica ZZ:  $0.11+0.04+0.01=0.16$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-2923.65$   $T_z=-72.42$   $M_y=-79.18$   $T_y=-47.46$   $M_z=-1.23$   $M_x=40.57$   
 Tensioni:  $\sigma_N=-212.47$   $\sigma_M=-190.54$   $\tau=78.07$   $\sigma_{max}=-403.01$   
 Tensioni:  $\sigma_N=-212.47$   $\sigma_M=-173.76$   $\tau=89.37$   $\tau_{max}=89.37$   
 Tensioni:  $\sigma_N=-212.47$   $\sigma_M=-189.96$   $\tau=87.47$   $\sigma_{ID,max}=430.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3457.17$   $T_z=-59.91$   $M_y=-64.38$   $T_y=-62.46$   $M_x=34.14$   
 $V,Ed=-62.46$   $Vc,Rd,Red=5625.57$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-59.91$   $Vc,Rd,Red=11251.10$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1445.71$   $T_z=-37.03$   $M_y=-49.63$   $T_y=-25.77$   $M_x=23.35$   
 Tensioni:  $\sigma_N=-105.07$   $\sigma_M=-116.69$   $\tau=44.92$   $\sigma_{max}=-221.76$   
 Tensioni:  $\sigma_N=-105.07$   $\sigma_M=-108.91$   $\tau=51.06$   $\tau_{max}=51.06$   
 Tensioni:  $\sigma_N=-105.07$   $\sigma_M=-116.69$   $\tau=51.06$   $\sigma_{ID,max}=238.74$

Asta n. 4360 (-11772 -11838) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4377.61$   $M_y,Ed=-70.80$   $M_z,Ed=-2.44$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, $y=55358100.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, $z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.14+0.06+0.00=0.20$   
 Verifica ZZ:  $0.14+0.05+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=-4377.56$   $T_z=82.06$   $M_y=-67.22$   $T_y=24.44$   $M_z=-1.13$   $M_x=9.08$   
 Tensioni:  $\sigma_N=-318.14$   $\sigma_M=-162.05$   $\tau=17.48$   $\sigma_{max}=-480.18$   
 Tensioni:  $\sigma_N=-318.14$   $\sigma_M=-3.48$   $\tau=28.12$   $\tau_{max}=28.12$   
 Tensioni:  $\sigma_N=-318.14$   $\sigma_M=-162.05$   $\tau=17.48$   $\sigma_{ID,max}=481.14$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.01$   
 Sollecitazioni:  $N=-3718.15$   $T_z=102.37$   $M_y=-79.98$   $T_y=12.49$   $M_x=10.15$   
 $V,Ed=12.49$   $Vc,Rd,Red=5837.32$   $V,Ed/Vc,Rd,Red=0.00$



- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=102.37 Vc,Rd,Red=11674.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1806.25 T<sub>z</sub>=53.01 M<sub>y</sub>=-51.69 T<sub>y</sub>=-4.22 M<sub>x</sub>=10.65  
Tensioni:  $\sigma_N$ =-131.27  $\sigma_M$ =-121.53  $\tau$ =20.49  $\sigma_{max}$ =-252.79  
Tensioni:  $\sigma_N$ =-131.27  $\sigma_M$ =0.00  $\tau$ =27.37  $\tau_{max}$ =27.37  
Tensioni:  $\sigma_N$ =-131.27  $\sigma_M$ =-121.53  $\tau$ =21.50  $\sigma_{ID,max}$ =255.52
- Asta n. 4360 (-11838 -11906) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4374.53 My,Ed=-80.19 Mz,Ed=0.51  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358000.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387600.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.06+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.19
- Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2526.91 T<sub>z</sub>=89.01 M<sub>y</sub>=-106.79 T<sub>y</sub>=-6.14 M<sub>x</sub>=10.21  
My,Ed=-106.79 My,c,Rd=1184.58  
N,Ed=-2526.91 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.08  
MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.09
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-3743.01 T<sub>z</sub>=99.79 M<sub>y</sub>=-90.93 T<sub>y</sub>=-2.92 M<sub>x</sub>=10.27  
V,Ed=-2.92 Vc,Rd,Red=5836.28 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=99.79 Vc,Rd,Red=11672.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1857.55 T<sub>z</sub>=49.30 M<sub>y</sub>=-57.00 T<sub>y</sub>=-7.65 M<sub>x</sub>=10.67  
Tensioni:  $\sigma_N$ =-135.00  $\sigma_M$ =-134.02  $\tau$ =20.53  $\sigma_{max}$ =-269.02  
Tensioni:  $\sigma_N$ =-135.00  $\sigma_M$ =0.00  $\tau$ =26.92  $\tau_{max}$ =26.92  
Tensioni:  $\sigma_N$ =-135.00  $\sigma_M$ =-134.02  $\tau$ =22.35  $\sigma_{ID,max}$ =271.79
- Asta n. 4360 (-11906 -12003) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4417.26 My,Ed=-87.82 Mz,Ed=0.82  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.07+0.00=0.22  
Verifica ZZ: 0.14+0.06+0.00=0.20
- Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2608.84 T<sub>z</sub>=70.17 M<sub>y</sub>=-115.55 T<sub>y</sub>=-4.04 M<sub>x</sub>=12.12  
My,Ed=-115.55 My,c,Rd=1184.58  
N,Ed=-2608.84 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.08  
MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.10
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-3806.18 T<sub>z</sub>=78.91 M<sub>y</sub>=-102.37 T<sub>y</sub>=-4.66 M<sub>x</sub>=12.01  
V,Ed=-4.66 Vc,Rd,Red=5820.88 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=78.91 Vc,Rd,Red=11641.80 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1926.59 T<sub>z</sub>=38.09 M<sub>y</sub>=-61.26 T<sub>y</sub>=-5.21 M<sub>x</sub>=11.21  
Tensioni:  $\sigma_N$ =-140.01  $\sigma_M$ =-144.02  $\tau$ =21.57  $\sigma_{max}$ =-284.03  
Tensioni:  $\sigma_N$ =-140.01  $\sigma_M$ =0.00  $\tau$ =26.50  $\tau_{max}$ =26.50  
Tensioni:  $\sigma_N$ =-140.01  $\sigma_M$ =-144.02  $\tau$ =22.81  $\sigma_{ID,max}$ =286.77

Asta n. 4360 (-12003 -12072) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4487.79 My,Ed=-92.44 Mz,Ed=0.90  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.07+0.00=0.22  
 Verifica ZZ: 0.15+0.06+0.00=0.21
  
  - Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-2698.97 Tz=41.71 My=-121.01 Ty=-2.33 Mx=15.56  
 My,Ed=-121.01 My,c,Rd=1184.58  
 N,Ed=-2698.97 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.10
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-2334.61 Tz=47.73 My=-112.75 Ty=-3.98 Mx=14.79  
 V,Ed=-3.98 Vc,Rd,Red=5796.34 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=47.73 Vc,Rd,Red=11592.70 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2001.90 Tz=23.30 My=-63.79 Ty=-3.72 Mx=12.24  
 Tensioni:  $\sigma_N=-145.49$   $\sigma_M=-149.97$   $\tau=23.55$   $\sigma_{max}=-295.46$   
 Tensioni:  $\sigma_N=-145.49$   $\sigma_M=0.00$   $\tau=26.58$   $\tau_{max}=26.58$   
 Tensioni:  $\sigma_N=-145.49$   $\sigma_M=-149.97$   $\tau=24.44$   $\sigma_{ID,max}=298.47$

Asta n. 4360 (-12072 -12173) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4566.36 My,Ed=-93.48 Mz,Ed=0.83  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.08+0.00=0.22  
 Verifica ZZ: 0.15+0.06+0.00=0.21
  
  - Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
 Sollecitazioni: N=-2785.85 Tz=5.49 My=-122.13 Ty=-1.18 Mx=20.08  
 My,Ed=-122.13 My,c,Rd=1184.58  
 N,Ed=-2785.85 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
 MNy,c,Rd=1184.58 My,Ed/MNy,c,Rd=0.10
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.00  
 Sollecitazioni: N=-2450.10 Tz=1.61 My=-95.27 Ty=-6.41 Mx=16.35  
 V,Ed=-6.41 Vc,Rd,Red=5782.60 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=1.61 Vc,Rd,Red=11565.20 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2075.96 Tz=8.51 My=-64.19 Ty=-2.74 Mx=13.64  
 Tensioni:  $\sigma_N=-150.87$   $\sigma_M=-150.92$   $\tau=26.25$   $\sigma_{max}=-301.79$   
 Tensioni:  $\sigma_N=-150.87$   $\sigma_M=0.00$   $\tau=27.35$   $\tau_{max}=27.35$   
 Tensioni:  $\sigma_N=-150.87$   $\sigma_M=-150.92$   $\tau=26.90$   $\sigma_{ID,max}=305.36$

Asta n. 4360 (-12173 -12254) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4647.24 My,Ed=-93.20 Mz,Ed=0.83  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.15+0.07+0.00=0.23$   
 Verifica ZZ:  $0.15+0.06+0.00=0.21$

- Verifica a pressoflessione retta - CC 75 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-2866.62$   $T_z=-31.27$   $M_y=-121.78$   $T_y=-4.03$   $M_x=24.96$   
 $M_y,Ed=-121.78$   $M_y,c,Rd=1184.58$   
 $N,Ed=-2866.62$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.09$   
 $MNy,c,Rd=1184.58$   $M_y,Ed/MNy,c,Rd=0.10$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4058.48$   $T_z=-35.17$   $M_y=-113.39$   $T_y=-1.75$   $M_x=24.03$   
 $V,Ed=-1.75$   $Vc,Rd,Red=5714.86$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-35.17$   $Vc,Rd,Red=11429.70$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2146.95$   $T_z=-17.97$   $M_y=-63.99$   $T_y=-1.85$   $M_x=15.24$   
 Tensioni:  $\sigma_N=-156.03$   $\sigma_M=-150.45$   $\tau=29.33$   $\sigma_{max}=-306.48$   
 Tensioni:  $\sigma_N=-156.03$   $\sigma_M=0.00$   $\tau=31.66$   $\tau_{max}=31.66$   
 Tensioni:  $\sigma_N=-156.03$   $\sigma_M=-150.45$   $\tau=29.77$   $\sigma_{ID,max}=310.79$

Asta n. 4360 (-12254 -12326) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4727.08$   $M_y,Ed=-89.57$   $M_z,Ed=0.99$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.07+0.00=0.23$   
 Verifica ZZ:  $0.15+0.06+0.00=0.21$

- Verifica a pressoflessione retta - CC 75 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-2938.28$   $T_z=-67.93$   $M_y=-117.43$   $T_y=-2.75$   $M_x=29.54$   
 $M_y,Ed=-117.43$   $M_y,c,Rd=1184.58$   
 $N,Ed=-2938.28$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.10$   
 $MNy,c,Rd=1184.58$   $M_y,Ed/MNy,c,Rd=0.10$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4136.81$   $T_z=-72.89$   $M_y=-105.29$   $M_x=28.28$   
 $V,Ed=-72.89$   $Vc,Rd,Red=11354.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2213.18$   $T_z=-35.12$   $M_y=-61.68$   $T_y=-1.02$   $M_x=16.80$   
 Tensioni:  $\sigma_N=-160.84$   $\sigma_M=-145.02$   $\tau=32.33$   $\sigma_{max}=-305.87$   
 Tensioni:  $\sigma_N=-160.84$   $\sigma_M=0.00$   $\tau=36.88$   $\tau_{max}=36.88$   
 Tensioni:  $\sigma_N=-160.84$   $\sigma_M=-145.02$   $\tau=32.57$   $\sigma_{ID,max}=311.02$

Asta n. 4360 (-12326 -12394) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4805.41$   $M_y,Ed=-82.30$   $M_z,Ed=1.28$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.07+0.00=0.22$   
 Verifica ZZ:  $0.16+0.05+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4805.41$   $T_z=-80.54$   $M_y=-82.30$   $T_y=-1.14$   $M_z=1.28$   $M_x=25.84$   
 Tensioni:  $\sigma_N=-349.23$   $\sigma_M=-198.02$   $\tau=49.73$   $\sigma_{max}=-547.25$   
 Tensioni:  $\sigma_N=-349.23$   $\sigma_M=-3.93$   $\tau=60.17$   $\tau_{max}=60.17$   
 Tensioni:  $\sigma_N=-349.23$   $\sigma_M=-198.02$   $\tau=49.73$   $\sigma_{ID,max}=553.99$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4208.12$   $T_z=-104.80$   $M_y=-93.24$   $M_x=31.60$   
 $V,Ed=-104.80$   $Vc,Rd,Red=11296.10$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND X1=0.00 - Classe 3  
 Sollecitazioni: N=-2273.52 T<sub>z</sub>=-50.68 M<sub>y</sub>=-57.17 M<sub>x</sub>=18.05  
 Tensioni:  $\sigma_N$ =-165.23  $\sigma_M$ =-134.41  $\tau$ =34.72  $\sigma_{max}$ =-299.64  
 Tensioni:  $\sigma_N$ =-165.23  $\sigma_M$ =0.00  $\tau$ =41.29  $\tau_{max}$ =41.29  
 Tensioni:  $\sigma_N$ =-165.23  $\sigma_M$ =-134.41  $\tau$ =34.72  $\sigma_{ID,max}$ =305.61

Asta n. 4360 (-12394 -12460) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4892.11 M<sub>y</sub>,Ed=-71.96 M<sub>z</sub>,Ed=1.71  
 Resistenze: N<sub>c</sub>,R<sub>d</sub>=30796.20 M<sub>y,c</sub>,R<sub>d</sub>=951.93 M<sub>z,c</sub>,R<sub>d</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.06+0.00=0.22  
 Verifica ZZ: 0.16+0.05+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 49 SLU X1=0.00 - Classe 3  
 Sollecitazioni: N=-4279.49 T<sub>z</sub>=-120.30 M<sub>y</sub>=-90.56 T<sub>y</sub>=-8.58 M<sub>z</sub>=1.40 M<sub>x</sub>=33.45  
 Tensioni:  $\sigma_N$ =-311.01  $\sigma_M$ =-217.88  $\tau$ =64.37  $\sigma_{max}$ =-528.89  
 Tensioni:  $\sigma_N$ =-311.01  $\sigma_M$ =-4.30  $\tau$ =79.97  $\tau_{max}$ =79.97  
 Tensioni:  $\sigma_N$ =-311.01  $\sigma_M$ =-217.88  $\tau$ =64.37  $\sigma_{ID,max}$ =540.51

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU X1=0.10  
 Sollecitazioni: N=-4279.40 T<sub>z</sub>=-126.12 M<sub>y</sub>=-78.52 T<sub>y</sub>=-8.58 M<sub>x</sub>=33.45  
 V,Ed=-8.58 V<sub>c</sub>,R<sub>d</sub>,Red=5631.64 V<sub>Ed/Vc</sub>,R<sub>d</sub>,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-126.12 V<sub>c</sub>,R<sub>d</sub>,Red=11263.30 V<sub>Ed/Vc</sub>,R<sub>d</sub>,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND X1=0.00 - Classe 3  
 Sollecitazioni: N=-2331.12 T<sub>z</sub>=-62.59 M<sub>y</sub>=-50.82 T<sub>y</sub>=-5.61 M<sub>x</sub>=18.76  
 Tensioni:  $\sigma_N$ =-169.41  $\sigma_M$ =-119.49  $\tau$ =36.09  $\sigma_{max}$ =-288.90  
 Tensioni:  $\sigma_N$ =-169.41  $\sigma_M$ =0.00  $\tau$ =44.20  $\tau_{max}$ =44.20  
 Tensioni:  $\sigma_N$ =-169.41  $\sigma_M$ =-119.49  $\tau$ =37.43  $\sigma_{ID,max}$ =296.08

Asta n. 4360 (-12460 -12543) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4995.24 M<sub>y</sub>,Ed=-59.83 M<sub>z</sub>,Ed=-7.02  
 Resistenze: N<sub>c</sub>,R<sub>d</sub>=30796.20 M<sub>y,c</sub>,R<sub>d</sub>=951.93 M<sub>z,c</sub>,R<sub>d</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358000.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387600.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.05+0.01=0.22  
 Verifica ZZ: 0.16+0.04+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 49 SLU X1=0.00 - Classe 3  
 Sollecitazioni: N=-4359.14 T<sub>z</sub>=-124.55 M<sub>y</sub>=-75.70 T<sub>y</sub>=-64.99 M<sub>z</sub>=1.03 M<sub>x</sub>=33.62  
 Tensioni:  $\sigma_N$ =-316.80  $\sigma_M$ =-181.61  $\tau$ =64.69  $\sigma_{max}$ =-498.40  
 Tensioni:  $\sigma_N$ =-316.80  $\sigma_M$ =-3.15  $\tau$ =80.84  $\tau_{max}$ =80.84  
 Tensioni:  $\sigma_N$ =-316.80  $\sigma_M$ =-181.12  $\tau$ =77.57  $\sigma_{ID,max}$ =515.73

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU X1=0.00  
 Sollecitazioni: N=-4995.24 T<sub>z</sub>=-102.30 M<sub>y</sub>=-59.83 T<sub>y</sub>=-81.75 M<sub>x</sub>=27.38  
 V,Ed=-81.75 V<sub>c</sub>,R<sub>d</sub>,Red=5685.25 V<sub>Ed/Vc</sub>,R<sub>d</sub>,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-102.30 V<sub>c</sub>,R<sub>d</sub>,Red=11370.50 V<sub>Ed/Vc</sub>,R<sub>d</sub>,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND X1=0.01 - Classe 3  
 Sollecitazioni: N=-2391.89 T<sub>z</sub>=-66.74 M<sub>y</sub>=-42.69 T<sub>y</sub>=-39.99 M<sub>z</sub>=1.02 M<sub>x</sub>=18.77  
 Tensioni:  $\sigma_N$ =-173.83  $\sigma_M$ =-103.97  $\tau$ =36.11  $\sigma_{max}$ =-277.80  
 Tensioni:  $\sigma_N$ =-173.83  $\sigma_M$ =-93.68  $\tau$ =45.64  $\tau_{max}$ =45.64  
 Tensioni:  $\sigma_N$ =-173.83  $\sigma_M$ =-103.49  $\tau$ =44.04  $\sigma_{ID,max}$ =287.62

Asta n. 4360 (-12543 -12624) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5782.01 My,Ed=-64.39 Mz,Ed=-7.73  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.19+0.05+0.01=0.25  
 Verifica ZZ: 0.19+0.04+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5782.01 T<sub>2</sub>=81.64 M<sub>y</sub>=-56.70 T<sub>y</sub>=77.84 M<sub>z</sub>=-7.73 M<sub>x</sub>=-2.36  
 Tensioni:  $\sigma_N=-420.20$   $\sigma_M=-160.65$   $\tau=4.53$   $\sigma_{max}=-580.86$   
 Tensioni:  $\sigma_N=-420.20$   $\sigma_M=-124.41$   $\tau=23.08$   $\tau_{max}=23.08$   
 Tensioni:  $\sigma_N=-420.20$   $\sigma_M=-160.65$   $\tau=4.53$   $\sigma_{ID,max}=580.91$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.09  
 Sollecitazioni: N=-5781.92 T<sub>2</sub>=76.34 M<sub>y</sub>=-63.71 T<sub>y</sub>=77.84 M<sub>x</sub>=-2.36  
 V,Ed=77.84 Vc,Rd,Red=5906.12 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=76.34 Vc,Rd,Red=11812.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2796.58 T<sub>2</sub>=51.21 M<sub>y</sub>=-44.39 T<sub>y</sub>=18.25 M<sub>x</sub>=-5.55  
 Tensioni:  $\sigma_N=-203.24$   $\sigma_M=-104.36$   $\tau=10.68$   $\sigma_{max}=-307.60$   
 Tensioni:  $\sigma_N=-203.24$   $\sigma_M=0.00$   $\tau=17.32$   $\tau_{max}=17.32$   
 Tensioni:  $\sigma_N=-203.24$   $\sigma_M=-104.36$   $\tau=15.02$   $\sigma_{ID,max}=308.70$

Asta n. 4360 (-12624 -12698) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5687.73 My,Ed=-73.44 Mz,Ed=1.03  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.06+0.00=0.25  
 Verifica ZZ: 0.18+0.05+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5687.63 T<sub>2</sub>=72.38 M<sub>y</sub>=-73.44 T<sub>y</sub>=11.22 M<sub>z</sub>=1.03 M<sub>x</sub>=-2.34  
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=-176.29$   $\tau=4.51$   $\sigma_{max}=-589.63$   
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=-3.15$   $\tau=13.89$   $\tau_{max}=13.89$   
 Tensioni:  $\sigma_N=-413.35$   $\sigma_M=-176.29$   $\tau=4.51$   $\sigma_{ID,max}=589.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-3194.85 T<sub>2</sub>=96.39 M<sub>y</sub>=-83.02 T<sub>y</sub>=-3.81 M<sub>x</sub>=-3.02  
 V,Ed=-3.81 Vc,Rd,Red=5900.27 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=96.39 Vc,Rd,Red=11800.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2821.28 T<sub>2</sub>=47.97 M<sub>y</sub>=-49.87 T<sub>y</sub>=2.70 M<sub>x</sub>=-5.60  
 Tensioni:  $\sigma_N=-205.03$   $\sigma_M=-117.25$   $\tau=10.78$   $\sigma_{max}=-322.29$   
 Tensioni:  $\sigma_N=-205.03$   $\sigma_M=0.00$   $\tau=17.00$   $\tau_{max}=17.00$   
 Tensioni:  $\sigma_N=-205.03$   $\sigma_M=-117.25$   $\tau=11.42$   $\sigma_{ID,max}=322.89$

Asta n. 4360 (-12698 -12769) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5659.61 My,Ed=-80.80 Mz,Ed=1.00  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.18+0.06+0.00=0.25$   
 Verifica ZZ:  $0.18+0.05+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5659.61$   $T_x=61.97$   $M_y=-75.03$   $M_z=1.00$   $M_x=-1.00$   
 Tensioni:  $\sigma_N=-411.31$   $\sigma_M=-179.94$   $\tau=1.93$   $\sigma_{max}=-591.25$   
 Tensioni:  $\sigma_N=-411.31$   $\sigma_M=-3.08$   $\tau=9.96$   $\tau_{max}=9.96$   
 Tensioni:  $\sigma_N=-411.31$   $\sigma_M=-179.94$   $\tau=1.93$   $\sigma_{ID,max}=591.26$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-5054.90$   $T_x=75.83$   $M_y=-93.25$   $T_y=-2.88$   $M_x=-1.44$   
 $V,Ed=-2.88$   $Vc,Rd,Red=5914.21$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=75.83$   $Vc,Rd,Red=11828.40$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2873.54$   $T_x=36.80$   $M_y=-54.26$   $T_y=-5.14$   $M_x=5.78$   
 Tensioni:  $\sigma_N=-208.83$   $\sigma_M=-127.56$   $\tau=11.12$   $\sigma_{max}=-336.40$   
 Tensioni:  $\sigma_N=-208.83$   $\sigma_M=0.00$   $\tau=15.89$   $\tau_{max}=15.89$   
 Tensioni:  $\sigma_N=-208.83$   $\sigma_M=-127.56$   $\tau=12.34$   $\sigma_{ID,max}=337.07$

Asta n. 4360 (-12769 -12839) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5668.93$   $M_y,Ed=-85.08$   $M_z,Ed=1.06$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.18+0.07+0.00=0.25$   
 Verifica ZZ:  $0.18+0.05+0.00=0.24$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.02$  - Classe 3  
 Sollecitazioni:  $N=-5668.92$   $T_x=34.25$   $M_y=-82.53$   $T_y=-2.79$   $M_z=1.01$   $M_x=1.55$   
 Tensioni:  $\sigma_N=-411.99$   $\sigma_M=-197.61$   $\tau=2.99$   $\sigma_{max}=-609.60$   
 Tensioni:  $\sigma_N=-411.99$   $\sigma_M=3.10$   $\tau=7.43$   $\tau_{max}=7.43$   
 Tensioni:  $\sigma_N=-411.99$   $\sigma_M=-197.61$   $\tau=2.99$   $\sigma_{ID,max}=609.62$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3288.60$   $T_x=44.57$   $M_y=-102.63$   $T_y=-3.47$   $M_x=1.95$   
 $V,Ed=-3.47$   $Vc,Rd,Red=5909.67$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=44.57$   $Vc,Rd,Red=11819.30$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2935.64$   $T_x=21.68$   $M_y=-56.83$   $T_y=-3.79$   $M_x=6.58$   
 Tensioni:  $\sigma_N=-213.35$   $\sigma_M=-133.61$   $\tau=12.66$   $\sigma_{max}=-346.96$   
 Tensioni:  $\sigma_N=-213.35$   $\sigma_M=0.00$   $\tau=15.48$   $\tau_{max}=15.48$   
 Tensioni:  $\sigma_N=-213.35$   $\sigma_M=-133.61$   $\tau=13.57$   $\sigma_{ID,max}=347.75$

Asta n. 4360 (-12839 -12909) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5692.24$   $M_y,Ed=-85.86$   $M_z,Ed=0.93$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387600.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.18+0.07+0.00=0.26$   
 Verifica ZZ:  $0.18+0.06+0.00=0.24$
- Verifica a pressoflessione retta - CC 75 SLU  $Xl=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3871.33$   $T_x=3.94$   $M_y=-110.72$   $M_x=6.78$   
 $M_y,Ed=-110.72$   $My,c,Rd=1184.58$   
 $N,Ed=-3871.33$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.13$   
 $MNy,c,Rd=1184.58$   $My,Ed/MNy,c,Rd=0.09$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3415.08$   $T_z=1.48$   $M_y=-86.05$   $T_y=-5.53$   $M_x=5.77$   
 $V,Ed=-5.53$   $V_c,Rd,Red=5875.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=1.48$   $V_c,Rd,Red=11752.00$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2997.69$   $T_z=-8.20$   $M_y=-57.27$   $T_y=-2.37$   $M_x=7.72$   
 Tensioni:  $\sigma_N=-217.85$   $\sigma_M=-134.66$   $\tau=14.86$   $\sigma_{max}=-352.51$   
 Tensioni:  $\sigma_N=-217.85$   $\sigma_M=0.00$   $\tau=15.92$   $\tau_{max}=15.92$   
 Tensioni:  $\sigma_N=-217.85$   $\sigma_M=-134.66$   $\tau=15.42$   $\sigma_{ID,max}=353.52$

Asta n. 4360 (-12909 -12989) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5722.09$   $M_y,Ed=-85.57$   $M_z,Ed=0.94$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.19+0.07+0.00=0.26$   
 Verifica ZZ:  $0.19+0.06+0.00=0.24$

- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=-3924.82$   $T_z=-33.81$   $M_y=-110.39$   $T_y=-3.07$   $M_x=11.71$   
 $M_y,Ed=-110.39$   $M_y,c,Rd=1184.58$   
 $N,Ed=-3924.82$   $N_c,Rd=30796.20$   $n=N,Ed/N_c,Rd=0.13$   
 $MN_y,c,Rd=1184.58$   $M_y,Ed/MN_y,c,Rd=0.09$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-5165.76$   $T_z=-39.30$   $M_y=-102.91$   $M_x=10.67$   
 $V,Ed=-39.30$   $V_c,Rd,Red=11665.50$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3056.94$   $T_z=-19.79$   $M_y=-57.10$   $T_y=-1.34$   $M_x=9.09$   
 Tensioni:  $\sigma_N=-222.16$   $\sigma_M=-134.25$   $\tau=17.49$   $\sigma_{max}=-356.42$   
 Tensioni:  $\sigma_N=-222.16$   $\sigma_M=0.00$   $\tau=20.05$   $\tau_{max}=20.05$   
 Tensioni:  $\sigma_N=-222.16$   $\sigma_M=-134.25$   $\tau=17.81$   $\sigma_{ID,max}=357.75$

Asta n. 4360 (-12989 -13070) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-5755.83$   $M_y,Ed=-81.54$   $M_z,Ed=1.32$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.19+0.07+0.00=0.25$   
 Verifica ZZ:  $0.19+0.05+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5755.83$   $T_z=-57.15$   $M_y=-81.54$   $T_y=1.95$   $M_z=1.13$   $M_x=11.84$   
 Tensioni:  $\sigma_N=-418.30$   $\sigma_M=-195.70$   $\tau=22.78$   $\sigma_{max}=-614.00$   
 Tensioni:  $\sigma_N=-418.30$   $\sigma_M=-3.46$   $\tau=30.19$   $\tau_{max}=30.19$   
 Tensioni:  $\sigma_N=-418.30$   $\sigma_M=-195.70$   $\tau=22.78$   $\sigma_{ID,max}=615.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-5204.31$   $T_z=-76.28$   $M_y=-94.46$   $T_y=1.80$   $M_x=14.95$   
 $V,Ed=1.80$   $V_c,Rd,Red=5794.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-76.28$   $V_c,Rd,Red=11590.00$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3111.95$   $T_z=-37.05$   $M_y=-54.75$   $M_x=10.45$   
 Tensioni:  $\sigma_N=-226.16$   $\sigma_M=-128.73$   $\tau=20.11$   $\sigma_{max}=-354.89$

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Tensioni:  $\sigma_N=-226.16$   $\sigma_M=0.00$   $\tau=24.91$   $\tau_{max}=24.91$   
Tensioni:  $\sigma_N=-226.16$   $\sigma_M=-128.73$   $\tau=20.11$   $\sigma_{ID,max}=356.60$

Asta n. 4360 (-13070 -13140) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5792.90 My,Ed=-73.96 Mz,Ed=1.66  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}$ ,  $\alpha_{Mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.06+0.00=0.25  
Verifica ZZ: 0.19+0.05+0.00=0.24
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-5239.63 Tz=-102.47 My=-92.37 Ty=2.45 Mz=1.18 Mx=18.33  
Tensioni:  $\sigma_N=-380.79$   $\sigma_M=-221.32$   $\tau=35.26$   $\sigma_{max}=-602.11$   
Tensioni:  $\sigma_N=-380.79$   $\sigma_M=-3.61$   $\tau=48.55$   $\tau_{max}=48.55$   
Tensioni:  $\sigma_N=-380.79$   $\sigma_M=-221.32$   $\tau=35.26$   $\sigma_{ID,max}=605.20$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-3441.52 Tz=-106.94 My=-83.42 Ty=3.00 Mz=18.41  
V,Ed=3.00 Vc,Rd,Red=5764.38 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-106.94 Vc,Rd,Red=11528.80 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3161.60 Tz=-52.86 My=-50.28 Mz=11.59  
Tensioni:  $\sigma_N=-229.77$   $\sigma_M=-118.21$   $\tau=22.29$   $\sigma_{max}=-347.98$   
Tensioni:  $\sigma_N=-229.77$   $\sigma_M=0.00$   $\tau=29.14$   $\tau_{max}=29.14$   
Tensioni:  $\sigma_N=-229.77$   $\sigma_M=-118.21$   $\tau=22.29$   $\sigma_{ID,max}=350.11$

Asta n. 4360 (-13140 -13212) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5851.35 My,Ed=-63.31 Mz,Ed=2.13  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}$ ,  $\alpha_{Mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.19+0.05+0.00=0.24  
Verifica ZZ: 0.19+0.04+0.00=0.23
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-5851.35 Tz=-101.23 My=-63.31 Ty=-12.69 Mz=2.13 Mx=15.95  
Tensioni:  $\sigma_N=-425.24$   $\sigma_M=-156.39$   $\tau=30.69$   $\sigma_{max}=-581.63$   
Tensioni:  $\sigma_N=-425.24$   $\sigma_M=-6.52$   $\tau=43.81$   $\tau_{max}=43.81$   
Tensioni:  $\sigma_N=-425.24$   $\sigma_M=-156.39$   $\tau=30.69$   $\sigma_{ID,max}=584.05$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-5286.95 Tz=-130.04 My=-66.94 Ty=-8.62 Mz=20.22  
V,Ed=-8.62 Vc,Rd,Red=5748.46 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-130.04 Vc,Rd,Red=11496.90 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3213.61 Tz=-64.97 My=-44.06 Ty=-6.12 Mz=12.24  
Tensioni:  $\sigma_N=-233.55$   $\sigma_M=-103.59$   $\tau=23.56$   $\sigma_{max}=-337.14$   
Tensioni:  $\sigma_N=-233.55$   $\sigma_M=0.00$   $\tau=31.98$   $\tau_{max}=31.98$   
Tensioni:  $\sigma_N=-233.55$   $\sigma_M=-103.59$   $\tau=25.02$   $\sigma_{ID,max}=339.91$

Asta n. 4360 (-13212 -13278) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-5946.43 My,Ed=-50.81 Mz,Ed=-8.46  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77



$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.19+0.04+0.01=0.25$

Verifica ZZ:  $0.19+0.03+0.01=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-5946.43 Tz=-105.64 My=-50.81 Ty=-100.13 Mz=1.32 Mx=16.11  
Tensioni:  $\sigma_N=-432.15$   $\sigma_M=-124.16$   $\tau=31.01$   $\sigma_{max}=-556.31$   
Tensioni:  $\sigma_N=-432.15$   $\sigma_M=-111.51$   $\tau=54.85$   $\tau_{max}=54.85$   
Tensioni:  $\sigma_N=-432.15$   $\sigma_M=-123.53$   $\tau=50.85$   $\sigma_{ID,max}=562.63$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
Sollecitazioni: N=-5946.43 Tz=-106.17 My=-49.87 Ty=-100.13 Mx=16.11  
V,Ed=-100.13 Vc,Rd,Red=5784.69 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-106.17 Vc,Rd,Red=11569.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3278.49 Tz=-72.82 My=-30.94 Ty=-55.37 Mz=-5.73 Mx=12.30  
Tensioni:  $\sigma_N=-238.26$   $\sigma_M=-93.02$   $\tau=23.66$   $\sigma_{max}=-331.29$   
Tensioni:  $\sigma_N=-238.26$   $\sigma_M=-67.90$   $\tau=36.85$   $\tau_{max}=36.85$   
Tensioni:  $\sigma_N=-238.26$   $\sigma_M=-90.32$   $\tau=34.64$   $\sigma_{ID,max}=334.01$

Asta n. 4360 (-13278 -13347) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6661.40 My,Ed=-56.95 Mz,Ed=-11.22  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358000.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387600.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY:  $0.22+0.05+0.02=0.28$

Verifica ZZ:  $0.22+0.04+0.02=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6661.40 Tz=86.67 My=-48.77 Ty=113.66 Mz=-11.22 Mx=-9.65  
Tensioni:  $\sigma_N=-484.11$   $\sigma_M=-154.37$   $\tau=18.57$   $\sigma_{max}=-638.49$   
Tensioni:  $\sigma_N=-484.11$   $\sigma_M=-107.01$   $\tau=45.63$   $\tau_{max}=45.63$   
Tensioni:  $\sigma_N=-484.11$   $\sigma_M=-154.37$   $\tau=18.57$   $\sigma_{ID,max}=639.30$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
Sollecitazioni: N=-6661.30 Tz=80.85 My=-56.95 Ty=113.66 Mx=-9.65  
V,Ed=113.66 Vc,Rd,Red=5841.75 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=80.85 Vc,Rd,Red=11683.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3702.85 Tz=56.72 My=-34.70 Ty=40.99 Mz=-4.61 Mx=-9.29  
Tensioni:  $\sigma_N=-269.10$   $\sigma_M=-97.89$   $\tau=17.87$   $\sigma_{max}=-366.99$   
Tensioni:  $\sigma_N=-269.10$   $\sigma_M=-76.14$   $\tau=27.64$   $\tau_{max}=27.64$   
Tensioni:  $\sigma_N=-269.10$   $\sigma_M=-97.89$   $\tau=17.87$   $\sigma_{ID,max}=368.30$

Asta n. 4360 (-13347 -13414) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6505.16 My,Ed=-66.64 Mz,Ed=1.52  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY:  $0.21+0.05+0.00=0.27$

Verifica ZZ:  $0.21+0.04+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

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Sollecitazioni:  $N=-6505.06$   $T_x=77.57$   $M_y=-66.64$   $T_y=18.49$   $M_z=1.52$   $M_x=-9.56$   
Tensioni:  $\sigma_N=-472.75$   $\sigma_M=-162.06$   $\tau=18.39$   $\sigma_{max}=-634.81$   
Tensioni:  $\sigma_N=-472.75$   $\sigma_M=-4.66$   $\tau=28.45$   $\tau_{max}=28.45$   
Tensioni:  $\sigma_N=-472.75$   $\sigma_M=-162.06$   $\tau=18.39$   $\sigma_{ID,max}=635.61$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-5934.84$   $T_x=100.92$   $M_y=-72.48$   $T_y=12.16$   $M_z=-11.25$   
 $V,Ed=12.16$   $Vc,Rd,Red=5827.57$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=100.92$   $Vc,Rd,Red=11655.10$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-3692.48$   $T_x=49.52$   $M_y=-45.57$   $T_y=2.96$   $M_z=-9.30$   
Tensioni:  $\sigma_N=-268.35$   $\sigma_M=-107.15$   $\tau=17.89$   $\sigma_{max}=-375.50$   
Tensioni:  $\sigma_N=-268.35$   $\sigma_M=0.00$   $\tau=24.31$   $\tau_{max}=24.31$   
Tensioni:  $\sigma_N=-268.35$   $\sigma_M=-107.15$   $\tau=18.59$   $\sigma_{ID,max}=376.87$

Asta n. 4360 (-13414 -13486) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6430.66$   $M_y,Ed=-74.52$   $M_z,Ed=1.30$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.21+0.06+0.00=0.27$   
Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6430.57$   $T_x=60.21$   $M_y=-74.52$   $M_z=1.30$   $M_x=-8.16$   
Tensioni:  $\sigma_N=-467.34$   $\sigma_M=-179.79$   $\tau=15.71$   $\sigma_{max}=-647.13$   
Tensioni:  $\sigma_N=-467.34$   $\sigma_M=-3.98$   $\tau=23.51$   $\tau_{max}=23.51$   
Tensioni:  $\sigma_N=-467.34$   $\sigma_M=-179.79$   $\tau=15.71$   $\sigma_{ID,max}=647.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-3969.43$   $T_x=78.32$   $M_y=-84.24$   $T_y=-3.84$   $M_z=-8.47$   
 $V,Ed=-3.84$   $Vc,Rd,Red=5852.14$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=78.32$   $Vc,Rd,Red=11704.30$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-3720.75$   $T_x=37.74$   $M_y=-50.30$   $T_y=-4.82$   $M_z=1.09$   $M_x=-8.70$   
Tensioni:  $\sigma_N=-270.40$   $\sigma_M=-122.11$   $\tau=16.75$   $\sigma_{max}=-392.51$   
Tensioni:  $\sigma_N=-270.40$   $\sigma_M=-3.34$   $\tau=21.64$   $\tau_{max}=21.64$   
Tensioni:  $\sigma_N=-270.40$   $\sigma_M=-122.11$   $\tau=16.75$   $\sigma_{ID,max}=393.58$

Asta n. 4360 (-13486 -13556) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6404.23$   $M_y,Ed=-79.30$   $M_z,Ed=1.32$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.21+0.06+0.00=0.27$   
Verifica ZZ:  $0.21+0.05+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6404.13$   $T_x=33.50$   $M_y=-79.30$   $T_y=-2.49$   $M_z=1.08$   $M_x=-5.55$   
Tensioni:  $\sigma_N=-465.42$   $\sigma_M=-190.26$   $\tau=10.68$   $\sigma_{max}=-655.67$   
Tensioni:  $\sigma_N=-465.42$   $\sigma_M=-3.31$   $\tau=15.02$   $\tau_{max}=15.02$   
Tensioni:  $\sigma_N=-465.42$   $\sigma_M=-190.26$   $\tau=10.68$   $\sigma_{ID,max}=655.93$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-3992.42$   $T_x=46.89$   $M_y=-93.09$   $T_y=-3.18$   $M_z=-5.17$   
 $V,Ed=-3.18$   $Vc,Rd,Red=5881.26$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=46.89 Vc,Rd,Red=11762.50 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3765.13 T<sub>z</sub>=22.16 M<sub>y</sub>=-53.19 T<sub>y</sub>=-3.78 M<sub>z</sub>=1.15 M<sub>x</sub>=-7.64  
Tensioni:  $\sigma_N$ =-273.63  $\sigma_M$ =-129.14  $\tau$ =14.71  $\sigma_{max}$ =-402.76  
Tensioni:  $\sigma_N$ =-273.63  $\sigma_M$ =-3.53  $\tau$ =17.58  $\tau_{max}$ =17.58  
Tensioni:  $\sigma_N$ =-273.63  $\sigma_M$ =-129.14  $\tau$ =14.71  $\sigma_{ID,max}$ =403.57

Asta n. 4360 (-13556 -13622) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6395.36 M<sub>y</sub>,Ed=-80.63 M<sub>z</sub>,Ed=1.11  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-6395.27 T<sub>z</sub>=4.88 M<sub>y</sub>=-80.63 M<sub>z</sub>=1.03 M<sub>x</sub>=-2.23  
Tensioni:  $\sigma_N$ =-464.77  $\sigma_M$ =-193.20  $\tau$ =4.29  $\sigma_{max}$ =-657.98  
Tensioni:  $\sigma_N$ =-464.77  $\sigma_M$ =-3.15  $\tau$ =4.92  $\tau_{max}$ =4.92  
Tensioni:  $\sigma_N$ =-464.77  $\sigma_M$ =-193.20  $\tau$ =4.29  $\sigma_{ID,max}$ =658.02

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-5894.84 T<sub>z</sub>=11.51 M<sub>y</sub>=-98.21 T<sub>y</sub>=-1.14 M<sub>x</sub>=-1.87  
V,Ed=-1.14 Vc,Rd,Red=5910.44 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=11.51 Vc,Rd,Red=11820.90 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3811.02 T<sub>z</sub>=6.59 M<sub>y</sub>=-53.99 T<sub>y</sub>=-2.07 M<sub>z</sub>=1.18 M<sub>x</sub>=-6.35  
Tensioni:  $\sigma_N$ =-276.96  $\sigma_M$ =-131.13  $\tau$ =12.22  $\sigma_{max}$ =-408.09  
Tensioni:  $\sigma_N$ =-276.96  $\sigma_M$ =-3.63  $\tau$ =13.07  $\tau_{max}$ =13.07  
Tensioni:  $\sigma_N$ =-276.96  $\sigma_M$ =-131.13  $\tau$ =12.22  $\sigma_{ID,max}$ =408.64

Asta n. 4360 (-13622 -13688) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6396.46 M<sub>y</sub>,Ed=-80.45 M<sub>z</sub>,Ed=1.18  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357700.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387500.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6396.46 T<sub>z</sub>=-23.29 M<sub>y</sub>=-80.45 M<sub>z</sub>=1.10 M<sub>x</sub>=1.44  
Tensioni:  $\sigma_N$ =-464.86  $\sigma_M$ =-193.05  $\tau$ =2.77  $\sigma_{max}$ =-657.91  
Tensioni:  $\sigma_N$ =-464.86  $\sigma_M$ =-3.38  $\tau$ =5.78  $\tau_{max}$ =5.78  
Tensioni:  $\sigma_N$ =-464.86  $\sigma_M$ =-193.05  $\tau$ =2.77  $\sigma_{ID,max}$ =657.93

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-4034.08 T<sub>z</sub>=-35.70 M<sub>y</sub>=-95.33 M<sub>x</sub>=3.72  
V,Ed=-35.70 Vc,Rd,Red=11788.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-3855.35 T<sub>z</sub>=-16.89 M<sub>y</sub>=-53.90 M<sub>z</sub>=1.11 M<sub>x</sub>=7.34  
Tensioni:  $\sigma_N$ =-280.19  $\sigma_M$ =-130.64  $\tau$ =14.12  $\sigma_{max}$ =-410.82  
Tensioni:  $\sigma_N$ =-280.19  $\sigma_M$ =-3.40  $\tau$ =16.31  $\tau_{max}$ =16.31  
Tensioni:  $\sigma_N$ =-280.19  $\sigma_M$ =-130.64  $\tau$ =14.12  $\sigma_{ID,max}$ =411.55

Asta n. 4360 (-13688 -13754) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6404.30 My,Ed=-76.97 Mz,Ed=1.61  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.21+0.06+0.00=0.27  
 Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.01 - Classe 3  
 Sollecitazioni: N=-5917.06 T<sub>2</sub>=-66.56 M<sub>y</sub>=-93.88 T<sub>y</sub>=3.26 M<sub>z</sub>=1.01 M<sub>x</sub>=7.11  
 Tensioni:  $\sigma_N=-430.02$   $\sigma_M=-224.30$   $\tau=13.67$   $\sigma_{max}=-654.32$   
 Tensioni:  $\sigma_N=-430.02$   $\sigma_M=-3.09$   $\tau=22.30$   $\tau_{max}=22.30$   
 Tensioni:  $\sigma_N=-430.02$   $\sigma_M=-224.30$   $\tau=13.67$   $\sigma_{ID,max}=654.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-4047.81 T<sub>2</sub>=-72.52 M<sub>y</sub>=-87.35 T<sub>y</sub>=2.54 M<sub>x</sub>=8.03  
 V,Ed=2.54 Vc,Rd,Red=5856.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-72.52 Vc,Rd,Red=11712.00 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3896.43 T<sub>2</sub>=-33.61 M<sub>y</sub>=-51.92 T<sub>y</sub>=1.24 M<sub>z</sub>=1.10 M<sub>x</sub>=8.43  
 Tensioni:  $\sigma_N=-283.17$   $\sigma_M=-125.97$   $\tau=16.23$   $\sigma_{max}=-409.14$   
 Tensioni:  $\sigma_N=-283.17$   $\sigma_M=-3.39$   $\tau=20.59$   $\tau_{max}=20.59$   
 Tensioni:  $\sigma_N=-283.17$   $\sigma_M=-125.97$   $\tau=16.23$   $\sigma_{ID,max}=410.11$

Asta n. 4360 (-13754 -13820) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6419.40 My,Ed=-69.99 Mz,Ed=2.00  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.21+0.06+0.00=0.27  
 Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5929.49 T<sub>2</sub>=-99.30 M<sub>y</sub>=-85.75 T<sub>y</sub>=3.65 M<sub>z</sub>=1.41 M<sub>x</sub>=10.52  
 Tensioni:  $\sigma_N=-430.92$   $\sigma_M=-206.61$   $\tau=20.24$   $\sigma_{max}=-637.53$   
 Tensioni:  $\sigma_N=-430.92$   $\sigma_M=-4.33$   $\tau=33.12$   $\tau_{max}=33.12$   
 Tensioni:  $\sigma_N=-430.92$   $\sigma_M=-206.61$   $\tau=20.24$   $\sigma_{ID,max}=638.49$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.06  
 Sollecitazioni: N=-4054.31 T<sub>2</sub>=-102.91 M<sub>y</sub>=-79.07 T<sub>y</sub>=4.04 M<sub>x</sub>=11.43  
 V,Ed=4.04 Vc,Rd,Red=5825.98 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-102.91 Vc,Rd,Red=11652.00 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3933.90 T<sub>2</sub>=-49.97 M<sub>y</sub>=-47.85 T<sub>y</sub>=2.06 M<sub>z</sub>=1.07 M<sub>x</sub>=9.37  
 Tensioni:  $\sigma_N=-285.89$   $\sigma_M=-116.29$   $\tau=18.03$   $\sigma_{max}=-402.18$   
 Tensioni:  $\sigma_N=-285.89$   $\sigma_M=-3.27$   $\tau=24.50$   $\tau_{max}=24.50$   
 Tensioni:  $\sigma_N=-285.89$   $\sigma_M=-116.29$   $\tau=18.03$   $\sigma_{ID,max}=403.39$

Asta n. 4360 (-13820 -13886) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6462.42 My,Ed=-59.81 Mz,Ed=2.42  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY:  $0.21+0.05+0.00=0.26$   
 Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6462.42$   $T_z=-96.42$   $M_y=-59.81$   $T_y=-12.39$   $M_z=2.42$   $M_x=8.95$   
 Tensioni:  $\sigma_N=-469.65$   $\sigma_M=-149.18$   $\tau=17.23$   $\sigma_{max}=-618.83$   
 Tensioni:  $\sigma_N=-469.65$   $\sigma_M=-7.42$   $\tau=29.73$   $\tau_{max}=29.73$   
 Tensioni:  $\sigma_N=-469.65$   $\sigma_M=-149.18$   $\tau=17.23$   $\sigma_{ID,max}=619.55$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4774.35$   $T_z=-117.14$   $M_y=-65.25$   $T_y=-1.36$   $M_x=14.39$   
 $V,Ed=-1.36$   $Vc,Rd,Red=5799.87$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-117.14$   $Vc,Rd,Red=11599.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3978.07$   $T_z=-61.31$   $M_y=-41.98$   $T_y=-6.19$   $M_z=1.01$   $M_x=9.92$   
 Tensioni:  $\sigma_N=-289.10$   $\sigma_M=-102.28$   $\tau=19.09$   $\sigma_{max}=-391.38$   
 Tensioni:  $\sigma_N=-289.10$   $\sigma_M=-3.10$   $\tau=27.04$   $\tau_{max}=27.04$   
 Tensioni:  $\sigma_N=-289.10$   $\sigma_M=-102.28$   $\tau=19.09$   $\sigma_{ID,max}=392.78$

Asta n. 4360 (-13886 -13954) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6552.99$   $M_y,Ed=-47.89$   $M_z,Ed=-9.23$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.21+0.04+0.01=0.27$   
 Verifica ZZ:  $0.21+0.03+0.01=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6552.90$   $T_z=-108.11$   $M_y=-37.61$   $T_y=-110.64$   $M_z=-9.23$   $M_x=9.15$   
 Tensioni:  $\sigma_N=-476.23$   $\sigma_M=-121.07$   $\tau=17.61$   $\sigma_{max}=-597.30$   
 Tensioni:  $\sigma_N=-476.23$   $\sigma_M=-82.53$   $\tau=43.96$   $\tau_{max}=43.96$   
 Tensioni:  $\sigma_N=-476.23$   $\sigma_M=-121.07$   $\tau=17.61$   $\sigma_{ID,max}=598.08$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.01$   
 Sollecitazioni:  $N=-6552.99$   $T_z=-102.82$   $M_y=-46.98$   $T_y=-110.64$   $M_x=9.15$   
 $V,Ed=-110.64$   $Vc,Rd,Red=5846.15$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-102.82$   $Vc,Rd,Red=11692.30$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4044.00$   $T_z=-69.70$   $M_y=-29.28$   $T_y=-68.22$   $M_z=-7.02$   $M_x=10.00$   
 Tensioni:  $\sigma_N=-293.89$   $\sigma_M=-93.66$   $\tau=19.24$   $\sigma_{max}=-387.56$   
 Tensioni:  $\sigma_N=-293.89$   $\sigma_M=-64.24$   $\tau=35.49$   $\tau_{max}=35.49$   
 Tensioni:  $\sigma_N=-293.89$   $\sigma_M=-93.66$   $\tau=19.24$   $\sigma_{ID,max}=388.99$

Asta n. 4360 (-13954 -14024) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7244.58$   $M_y,Ed=-54.59$   $M_z,Ed=-13.17$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.04+0.02=0.30$   
 Verifica ZZ:  $0.24+0.04+0.02=0.29$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7244.58$   $T_z=83.45$   $M_y=-46.71$   $T_y=133.63$   $M_z=-13.17$   $M_x=-13.63$   
 Tensioni:  $\sigma_N=-526.50$   $\sigma_M=-156.44$   $\tau=26.24$   $\sigma_{max}=-682.93$   
 Tensioni:  $\sigma_N=-526.50$   $\sigma_M=-102.51$   $\tau=58.05$   $\tau_{max}=58.05$   
 Tensioni:  $\sigma_N=-526.50$   $\sigma_M=-156.44$   $\tau=26.24$   $\sigma_{ID,max}=684.44$

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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-7244.49$   $T_z=77.62$   $M_y=-54.59$   $T_y=133.63$   $M_x=-13.63$   
 $V,Ed=133.63$   $V_c,Rd,Red=5806.57$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=77.62$   $V_c,Rd,Red=11613.10$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4472.81$   $T_z=53.22$   $M_y=-33.33$   $T_y=61.02$   $M_z=-6.80$   $M_x=-12.40$   
Tensioni:  $\sigma_N=-325.06$   $\sigma_M=-102.44$   $\tau=23.86$   $\sigma_{max}=-427.50$   
Tensioni:  $\sigma_N=-325.06$   $\sigma_M=-73.14$   $\tau=38.39$   $\tau_{max}=38.39$   
Tensioni:  $\sigma_N=-325.06$   $\sigma_M=-102.44$   $\tau=23.86$   $\sigma_{ID,max}=429.49$

Asta n. 4360 (-14024 -14091) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7054.68$   $M_y,Ed=-63.71$   $M_z,Ed=1.77$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.23+0.05+0.00=0.28$   
Verifica ZZ:  $0.23+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-7054.58$   $T_z=72.70$   $M_y=-63.71$   $T_y=22.00$   $M_z=1.77$   $M_x=-13.49$   
Tensioni:  $\sigma_N=-512.69$   $\sigma_M=-156.06$   $\tau=25.95$   $\sigma_{max}=-668.75$   
Tensioni:  $\sigma_N=-512.69$   $\sigma_M=-5.43$   $\tau=35.38$   $\tau_{max}=35.38$   
Tensioni:  $\sigma_N=-512.69$   $\sigma_M=-156.06$   $\tau=25.95$   $\sigma_{ID,max}=670.26$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-6544.43$   $T_z=94.20$   $M_y=-67.05$   $T_y=15.81$   $M_x=-15.03$   
 $V,Ed=15.81$   $V_c,Rd,Red=5794.25$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=94.20$   $V_c,Rd,Red=11588.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4431.83$   $T_z=45.29$   $M_y=-42.95$   $T_y=2.85$   $M_z=1.16$   $M_x=-12.38$   
Tensioni:  $\sigma_N=-322.08$   $\sigma_M=-105.06$   $\tau=23.82$   $\sigma_{max}=-427.14$   
Tensioni:  $\sigma_N=-322.08$   $\sigma_M=-3.55$   $\tau=29.69$   $\tau_{max}=29.69$   
Tensioni:  $\sigma_N=-322.08$   $\sigma_M=-105.06$   $\tau=23.82$   $\sigma_{ID,max}=429.13$

Asta n. 4360 (-14091 -14159) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6955.55$   $M_y,Ed=-71.06$   $M_z,Ed=1.49$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.23+0.06+0.00=0.29$   
Verifica ZZ:  $0.23+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6955.46$   $T_z=55.93$   $M_y=-71.06$   $M_z=1.49$   $M_x=-12.05$   
Tensioni:  $\sigma_N=-505.48$   $\sigma_M=-172.33$   $\tau=23.19$   $\sigma_{max}=-677.82$   
Tensioni:  $\sigma_N=-505.48$   $\sigma_M=-4.56$   $\tau=30.44$   $\tau_{max}=30.44$   
Tensioni:  $\sigma_N=-505.48$   $\sigma_M=-172.33$   $\tau=23.19$   $\sigma_{ID,max}=679.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-4494.55$   $T_z=71.19$   $M_y=-75.62$   $T_y=-3.38$   $M_x=-11.17$   
 $V,Ed=-3.38$   $V_c,Rd,Red=5828.31$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=71.19$   $V_c,Rd,Red=11656.60$   $V,Ed/V_c,Rd,Red=0.01$

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- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4438.70$   $T_x=33.96$   $M_y=-47.04$   $T_y=-4.40$   $M_z=1.29$   $M_x=-11.72$   
Tensioni:  $\sigma_N=-322.58$   $\sigma_M=-115.16$   $\tau=22.56$   $\sigma_{max}=-437.74$   
Tensioni:  $\sigma_N=-322.58$   $\sigma_M=-3.95$   $\tau=26.96$   $\tau_{max}=26.96$   
Tensioni:  $\sigma_N=-322.58$   $\sigma_M=-115.16$   $\tau=22.56$   $\sigma_{ID,max}=439.48$

Asta n. 4360 (-14159 -14225) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6909.63$   $M_y,Ed=-75.38$   $M_z,Ed=1.45$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_{y^2}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_{z^2}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.06+0.00=0.29$   
Verifica ZZ:  $0.22+0.05+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6909.54$   $T_x=29.82$   $M_y=-75.38$   $T_y=-2.26$   $M_z=1.23$   $M_x=-9.41$   
Tensioni:  $\sigma_N=-502.15$   $\sigma_M=-181.56$   $\tau=18.11$   $\sigma_{max}=-683.71$   
Tensioni:  $\sigma_N=-502.15$   $\sigma_M=-3.76$   $\tau=21.97$   $\tau_{max}=21.97$   
Tensioni:  $\sigma_N=-502.15$   $\sigma_M=-181.56$   $\tau=18.11$   $\sigma_{ID,max}=684.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-4500.73$   $T_x=39.91$   $M_y=-83.59$   $T_y=-2.90$   $M_x=-7.82$   
 $V,Ed=-2.90$   $V_c,Rd,Red=5857.93$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=39.91$   $V_c,Rd,Red=11715.90$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4466.30$   $T_x=18.98$   $M_y=-49.44$   $T_y=-3.56$   $M_z=1.35$   $M_x=-10.57$   
Tensioni:  $\sigma_N=-324.59$   $\sigma_M=-121.02$   $\tau=20.33$   $\sigma_{max}=-445.61$   
Tensioni:  $\sigma_N=-324.59$   $\sigma_M=-4.15$   $\tau=22.79$   $\tau_{max}=22.79$   
Tensioni:  $\sigma_N=-324.59$   $\sigma_M=-121.02$   $\tau=20.33$   $\sigma_{ID,max}=447.00$

Asta n. 4360 (-14225 -14291) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6883.81$   $M_y,Ed=-76.06$   $M_z,Ed=1.21$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_{y^2}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_{z^2}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.06+0.00=0.29$   
Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.06$  - Classe 3  
Sollecitazioni:  $N=-6883.75$   $T_x=1.39$   $M_y=-76.05$   $M_z=1.16$   $M_x=-6.05$   
Tensioni:  $\sigma_N=-500.27$   $\sigma_M=-182.90$   $\tau=11.65$   $\sigma_{max}=-683.17$   
Tensioni:  $\sigma_N=-500.27$   $\sigma_M=-3.55$   $\tau=11.83$   $\tau_{max}=11.83$   
Tensioni:  $\sigma_N=-500.27$   $\sigma_M=-182.90$   $\tau=11.65$   $\sigma_{ID,max}=683.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-4725.87$   $T_x=-3.37$   $M_y=-71.58$   $T_y=-4.93$   $M_x=-3.48$   
 $V,Ed=-4.93$   $V_c,Rd,Red=5896.16$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-3.37$   $V_c,Rd,Red=11792.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.09$  - Classe 3  
Sollecitazioni:  $N=-4497.28$   $T_x=-8.40$   $M_y=-49.71$   $T_y=-1.79$   $M_z=1.36$   $M_x=-9.14$   
Tensioni:  $\sigma_N=-326.84$   $\sigma_M=-121.71$   $\tau=17.58$   $\sigma_{max}=-448.55$   
Tensioni:  $\sigma_N=-326.84$   $\sigma_M=4.18$   $\tau=18.67$   $\tau_{max}=18.67$   
Tensioni:  $\sigma_N=-326.84$   $\sigma_M=-121.71$   $\tau=17.58$   $\sigma_{ID,max}=449.58$

Asta n. 4360 (-14291 -14357) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6869.50$   $M_y, Ed = -75.82$   $M_z, Ed = 1.30$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55357700.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387500.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22 + 0.06 + 0.00 = 0.29$   
 Verifica ZZ:  $0.22 + 0.05 + 0.00 = 0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -6869.50$   $T_x = -27.79$   $M_y = -75.82$   $T_y = 1.50$   $M_z = 1.15$   $M_x = -2.38$   
 Tensioni:  $\sigma_N = -499.24$   $\sigma_M = -182.32$   $\tau = 4.58$   $\sigma_{max} = -681.56$   
 Tensioni:  $\sigma_N = -499.24$   $\sigma_M = 3.53$   $\tau = 8.18$   $\tau_{max} = 8.18$   
 Tensioni:  $\sigma_N = -499.24$   $\sigma_M = -182.32$   $\tau = 4.58$   $\sigma_{ID, max} = 681.60$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 25 SLU  $X1 = 0.10$   
 Sollecitazioni:  $N = -4514.58$   $T_x = -43.65$   $M_y = -83.25$   $M_z = 1.16$   
 $V, Ed = -43.65$   $V_c, Rd, Red = 11833.30$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -4527.74$   $T_x = -19.11$   $M_y = -49.55$   $M_z = 1.31$   $M_x = 8.29$   
 Tensioni:  $\sigma_N = -329.05$   $\sigma_M = -121.14$   $\tau = 15.96$   $\sigma_{max} = -450.19$   
 Tensioni:  $\sigma_N = -329.05$   $\sigma_M = -4.02$   $\tau = 18.43$   $\tau_{max} = 18.43$   
 Tensioni:  $\sigma_N = -329.05$   $\sigma_M = -121.14$   $\tau = 15.96$   $\sigma_{ID, max} = 451.03$

Asta n. 4360 (-14357 -14423) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6863.24$   $M_y, Ed = -71.84$   $M_z, Ed = 1.74$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55358300.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387700.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22 + 0.06 + 0.00 = 0.28$   
 Verifica ZZ:  $0.22 + 0.05 + 0.00 = 0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -6863.24$   $T_x = -58.38$   $M_y = -71.84$   $T_y = 3.95$   $M_z = 1.36$   
 Tensioni:  $\sigma_N = -498.78$   $\sigma_M = -173.72$   $\tau = 0.00$   $\sigma_{max} = -672.50$   
 Tensioni:  $\sigma_N = -498.78$   $\sigma_M = 4.17$   $\tau = 7.57$   $\tau_{max} = 7.57$   
 Tensioni:  $\sigma_N = -498.78$   $\sigma_M = -173.72$   $\tau = 0.00$   $\sigma_{ID, max} = 672.50$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X1 = 0.10$   
 Sollecitazioni:  $N = -4515.95$   $T_x = -81.74$   $M_y = -74.27$   $T_y = 3.11$   $M_z = 5.50$   
 $V, Ed = 3.11$   $V_c, Rd, Red = 5878.39$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -81.74$   $V_c, Rd, Red = 11756.80$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1 = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -4555.87$   $T_x = -36.42$   $M_y = -47.20$   $T_y = 2.08$   $M_z = 1.29$   $M_x = 9.27$   
 Tensioni:  $\sigma_N = -331.10$   $\sigma_M = -115.56$   $\tau = 17.83$   $\sigma_{max} = -446.65$   
 Tensioni:  $\sigma_N = -331.10$   $\sigma_M = -3.97$   $\tau = 22.55$   $\tau_{max} = 22.55$   
 Tensioni:  $\sigma_N = -331.10$   $\sigma_M = -115.56$   $\tau = 17.83$   $\sigma_{ID, max} = 447.72$

Asta n. 4360 (-14423 -14489) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -6865.95$   $M_y, Ed = -64.23$   $M_z, Ed = 2.19$   
 Resistenze:  $N_c, Rd = 30796.20$   $M_y, c, Rd = 951.93$   $M_z, c, Rd = 632.38$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27$   $N_{cr, y} = 55358200.00$   $\lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.94$   $N_{cr, z} = 18387700.00$   $\lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.22 + 0.05 + 0.00 = 0.28$   
 Verifica ZZ:  $0.22 + 0.04 + 0.00 = 0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1 = 0.00$  - Classe 3



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Sollecitazioni:  $N=-6865.95$   $T_x=-84.71$   $M_y=-64.23$   $T_y=3.87$   $M_z=1.82$   $M_x=3.66$   
Tensioni:  $\sigma_N=-498.98$   $\sigma_M=-157.44$   $\tau=7.03$   $\sigma_{max}=-656.42$   
Tensioni:  $\sigma_N=-498.98$   $\sigma_M=-5.57$   $\tau=18.02$   $\tau_{max}=18.02$   
Tensioni:  $\sigma_N=-498.98$   $\sigma_M=-157.44$   $\tau=7.03$   $\sigma_{ID,max}=656.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.04$   
Sollecitazioni:  $N=-4511.28$   $T_x=-110.15$   $M_y=-67.36$   $T_y=5.28$   $M_z=8.90$   
 $V,Ed=5.28$   $V_c,Rd,Red=5848.37$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-110.15$   $V_c,Rd,Red=11696.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4581.79$   $T_x=-51.62$   $M_y=-42.74$   $T_y=3.24$   $M_z=1.23$   $M_x=10.09$   
Tensioni:  $\sigma_N=-332.98$   $\sigma_M=-104.84$   $\tau=19.42$   $\sigma_{max}=-437.82$   
Tensioni:  $\sigma_N=-332.98$   $\sigma_M=-3.78$   $\tau=26.11$   $\tau_{max}=26.11$   
Tensioni:  $\sigma_N=-332.98$   $\sigma_M=-104.84$   $\tau=19.42$   $\sigma_{ID,max}=439.11$

Asta n. 4360 (-14489 -14555) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6900.40$   $M_y,Ed=-53.55$   $M_z,Ed=2.58$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.04+0.00=0.27$   
Verifica ZZ:  $0.22+0.03+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-6900.40$   $T_x=-102.29$   $M_y=-53.55$   $T_y=-11.95$   $M_z=2.58$   $M_x=5.11$   
Tensioni:  $\sigma_N=-501.48$   $\sigma_M=-135.03$   $\tau=9.83$   $\sigma_{max}=-636.51$   
Tensioni:  $\sigma_N=-501.48$   $\sigma_M=-7.90$   $\tau=23.09$   $\tau_{max}=23.09$   
Tensioni:  $\sigma_N=-501.48$   $\sigma_M=-135.03$   $\tau=9.83$   $\sigma_{ID,max}=636.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.01$   
Sollecitazioni:  $N=-4774.45$   $T_x=-90.01$   $M_y=-50.24$   $T_y=-6.51$   $M_x=8.50$   
 $V,Ed=-6.51$   $V_c,Rd,Red=5851.90$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-90.01$   $V_c,Rd,Red=11703.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4618.04$   $T_x=-63.21$   $M_y=-36.59$   $T_y=-5.77$   $M_z=1.14$   $M_x=10.58$   
Tensioni:  $\sigma_N=-335.61$   $\sigma_M=-90.08$   $\tau=20.37$   $\sigma_{max}=-425.70$   
Tensioni:  $\sigma_N=-335.61$   $\sigma_M=-3.50$   $\tau=28.56$   $\tau_{max}=28.56$   
Tensioni:  $\sigma_N=-335.61$   $\sigma_M=-90.08$   $\tau=20.37$   $\sigma_{ID,max}=427.15$

Asta n. 4360 (-14555 -14625) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6990.71$   $M_y,Ed=-41.03$   $M_z,Ed=-9.93$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.23+0.03+0.02=0.28$   
Verifica ZZ:  $0.23+0.03+0.02=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6990.61$   $T_x=-111.34$   $M_y=-30.43$   $T_y=-119.38$   $M_z=-9.93$   $M_x=5.24$   
Tensioni:  $\sigma_N=-508.04$   $\sigma_M=-106.68$   $\tau=10.08$   $\sigma_{max}=-614.72$   
Tensioni:  $\sigma_N=-508.04$   $\sigma_M=-66.77$   $\tau=38.52$   $\tau_{max}=38.52$   
Tensioni:  $\sigma_N=-508.04$   $\sigma_M=-106.68$   $\tau=10.08$   $\sigma_{ID,max}=614.97$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.01$   
Sollecitazioni:  $N=-6990.70$   $T_x=-106.04$   $M_y=-40.09$   $T_y=-119.38$   $M_x=5.24$   
 $V,Ed=-119.38$   $V_c,Rd,Red=5880.65$   $V,Ed/V_c,Rd,Red=0.02$

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- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-106.04 Vc,Rd,Red=11761.30 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4684.17 T<sub>z</sub>=-70.21 M<sub>y</sub>=-23.45 T<sub>y</sub>=-79.03 M<sub>z</sub>=-8.10 M<sub>x</sub>=10.65  
Tensioni:  $\sigma_N$ =-340.42  $\sigma_M$ =-83.82  $\tau$ =20.49  $\sigma_{max}$ =-424.24  
Tensioni:  $\sigma_N$ =-340.42  $\sigma_M$ =-51.47  $\tau$ =39.31  $\tau_{max}$ =39.31  
Tensioni:  $\sigma_N$ =-340.42  $\sigma_M$ =-83.82  $\tau$ =20.49  $\sigma_{ID,max}$ =425.72

Asta n. 4360 (-14625 -14693) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7650.99 M<sub>y</sub>,Ed=-49.80 M<sub>z</sub>,Ed=-14.50  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.25+0.04+0.02=0.31  
Verifica ZZ: 0.25+0.03+0.02=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7650.99 T<sub>z</sub>=100.82 M<sub>y</sub>=-40.23 T<sub>y</sub>=147.82 M<sub>z</sub>=-14.50 M<sub>x</sub>=-20.77  
Tensioni:  $\sigma_N$ =-556.03  $\sigma_M$ =-145.90  $\tau$ =39.96  $\sigma_{max}$ =-701.93  
Tensioni:  $\sigma_N$ =-556.03  $\sigma_M$ =-88.27  $\tau$ =75.16  $\tau_{max}$ =75.16  
Tensioni:  $\sigma_N$ =-556.03  $\sigma_M$ =-139.06  $\tau$ =69.26  $\sigma_{ID,max}$ =705.37

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
Sollecitazioni: N=-7650.89 T<sub>z</sub>=94.99 M<sub>y</sub>=-49.80 T<sub>y</sub>=147.82 M<sub>x</sub>=-20.77  
V,Ed=147.82 Vc,Rd,Red=5743.63 V,Ed/Vc,Rd,Red=0.03

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=94.99 Vc,Rd,Red=11487.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5105.64 T<sub>z</sub>=58.94 M<sub>y</sub>=-27.82 T<sub>y</sub>=78.32 M<sub>z</sub>=-8.67 M<sub>x</sub>=-17.03  
Tensioni:  $\sigma_N$ =-371.05  $\sigma_M$ =-96.10  $\tau$ =32.77  $\sigma_{max}$ =-467.15  
Tensioni:  $\sigma_N$ =-371.05  $\sigma_M$ =-61.05  $\tau$ =51.41  $\tau_{max}$ =51.41  
Tensioni:  $\sigma_N$ =-371.05  $\sigma_M$ =-96.10  $\tau$ =32.77  $\sigma_{ID,max}$ =470.58

Asta n. 4360 (-14693 -14759) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7441.76 M<sub>y</sub>,Ed=-61.23 M<sub>z</sub>,Ed=1.96  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357700.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387500.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.05+0.00=0.29  
Verifica ZZ: 0.24+0.04+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7441.67 T<sub>z</sub>=92.07 M<sub>y</sub>=-61.23 T<sub>y</sub>=24.35 M<sub>z</sub>=1.96 M<sub>x</sub>=-20.68  
Tensioni:  $\sigma_N$ =-540.82  $\sigma_M$ =-150.90  $\tau$ =39.79  $\sigma_{max}$ =-691.72  
Tensioni:  $\sigma_N$ =-540.82  $\sigma_M$ =-6.02  $\tau$ =51.73  $\tau_{max}$ =51.73  
Tensioni:  $\sigma_N$ =-540.82  $\sigma_M$ =-150.90  $\tau$ =39.79  $\sigma_{ID,max}$ =695.14

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-6984.14 T<sub>z</sub>=119.50 M<sub>y</sub>=-58.31 T<sub>y</sub>=18.01 M<sub>x</sub>=-22.40  
V,Ed=18.01 Vc,Rd,Red=5729.24 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=119.50 Vc,Rd,Red=11458.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5039.51 T<sub>z</sub>=52.04 M<sub>y</sub>=-38.48 T<sub>y</sub>=5.34 M<sub>z</sub>=1.28 M<sub>x</sub>=-17.03  
Tensioni:  $\sigma_N$ =-366.24  $\sigma_M$ =-95.01  $\tau$ =32.77  $\sigma_{max}$ =-461.25  
Tensioni:  $\sigma_N$ =-366.24  $\sigma_M$ =-3.93  $\tau$ =39.52  $\tau_{max}$ =39.52

Tensioni:  $\sigma_N=-366.24$   $\sigma_M=-95.01$   $\tau=32.77$   $\sigma_{ID,max}=464.73$

Asta n. 4360 (-14759 -14825) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7329.51 My,Ed=-70.80 Mz,Ed=1.62

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.24+0.06+0.00=0.30

Verifica ZZ: 0.24+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-7329.42 Tz=74.21 My=-70.80 Ty=1.00 Mz=1.62 Mx=-19.27

Tensioni:  $\sigma_N=-532.66$   $\sigma_M=-172.21$   $\tau=37.07$   $\sigma_{max}=-704.87$

Tensioni:  $\sigma_N=-532.66$   $\sigma_M=-4.98$   $\tau=46.69$   $\tau_{max}=46.69$

Tensioni:  $\sigma_N=-532.66$   $\sigma_M=-172.21$   $\tau=37.07$   $\sigma_{ID,max}=707.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-4890.65 Tz=97.08 My=-66.88 Ty=-3.52 Mx=-17.13

V,Ed=-3.52 Vc,Rd,Red=5775.71 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=97.08 Vc,Rd,Red=11551.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-5028.80 Tz=40.83 My=-43.32 Ty=-4.10 Mz=1.41 Mx=-16.40

Tensioni:  $\sigma_N=-365.46$   $\sigma_M=-106.86$   $\tau=31.55$   $\sigma_{max}=-472.33$

Tensioni:  $\sigma_N=-365.46$   $\sigma_M=-4.33$   $\tau=36.85$   $\tau_{max}=36.85$

Tensioni:  $\sigma_N=-365.46$   $\sigma_M=-106.86$   $\tau=31.55$   $\sigma_{ID,max}=475.48$

Asta n. 4360 (-14825 -14891) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7273.84 My,Ed=-77.30 Mz,Ed=1.54

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.24+0.06+0.00=0.30

Verifica ZZ: 0.24+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-7273.75 Tz=47.72 My=-77.30 Ty=-2.29 Mz=1.31 Mx=-16.66

Tensioni:  $\sigma_N=-528.62$   $\sigma_M=-186.39$   $\tau=32.05$   $\sigma_{max}=-715.00$

Tensioni:  $\sigma_N=-528.62$   $\sigma_M=-4.03$   $\tau=38.24$   $\tau_{max}=38.24$

Tensioni:  $\sigma_N=-528.62$   $\sigma_M=-186.39$   $\tau=32.05$   $\sigma_{ID,max}=717.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-4890.68 Tz=65.67 My=-77.97 Ty=-3.16 Mx=-13.80

V,Ed=-3.16 Vc,Rd,Red=5805.13 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=65.67 Vc,Rd,Red=11610.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-5042.75 Tz=26.59 My=-46.54 Ty=-3.57 Mz=1.49 Mx=-15.27

Tensioni:  $\sigma_N=-366.48$   $\sigma_M=-114.69$   $\tau=29.38$   $\sigma_{max}=-481.17$

Tensioni:  $\sigma_N=-366.48$   $\sigma_M=-4.56$   $\tau=32.83$   $\tau_{max}=32.83$

Tensioni:  $\sigma_N=-366.48$   $\sigma_M=-114.69$   $\tau=29.38$   $\sigma_{ID,max}=483.85$

Asta n. 4360 (-14891 -14957) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7239.86 My,Ed=-80.32 Mz,Ed=1.26

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

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$\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.06+0.00=0.30  
Verifica ZZ: 0.24+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7239.77 T<sub>z</sub>=18.88 M<sub>y</sub>=-80.32 M<sub>z</sub>=1.22 M<sub>x</sub>=-13.33  
Tensioni:  $\sigma_N=-526.15$   $\sigma_M=-193.17$   $\tau=25.66$   $\sigma_{max}=-719.32$   
Tensioni:  $\sigma_N=-526.15$   $\sigma_M=-3.75$   $\tau=28.10$   $\tau_{max}=28.10$   
Tensioni:  $\sigma_N=-526.15$   $\sigma_M=-193.17$   $\tau=25.66$   $\sigma_{ID,max}=720.69$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-6851.67 T<sub>z</sub>=29.48 M<sub>y</sub>=-90.61 M<sub>z</sub>=-12.94  
V,Ed=29.48 Vc,Rd,Red=11625.40 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5061.76 T<sub>z</sub>=12.60 M<sub>y</sub>=-47.87 T<sub>y</sub>=-1.52 M<sub>z</sub>=1.52 M<sub>x</sub>=-13.85  
Tensioni:  $\sigma_N=-367.86$   $\sigma_M=-117.91$   $\tau=26.65$   $\sigma_{max}=-485.77$   
Tensioni:  $\sigma_N=-367.86$   $\sigma_M=-4.65$   $\tau=28.28$   $\tau_{max}=28.28$   
Tensioni:  $\sigma_N=-367.86$   $\sigma_M=-117.91$   $\tau=26.65$   $\sigma_{ID,max}=487.96$

Asta n. 4360 (-14957 -15023) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7219.12 M<sub>y,Ed</sub>=-80.47 M<sub>z,Ed</sub>=1.39  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.23+0.06+0.00=0.30  
Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7219.12 T<sub>z</sub>=-9.10 M<sub>y</sub>=-80.47 T<sub>y</sub>=1.67 M<sub>z</sub>=1.23 M<sub>x</sub>=-9.69  
Tensioni:  $\sigma_N=-524.64$   $\sigma_M=-193.54$   $\tau=18.65$   $\sigma_{max}=-718.18$   
Tensioni:  $\sigma_N=-524.64$   $\sigma_M=3.76$   $\tau=19.83$   $\tau_{max}=19.83$   
Tensioni:  $\sigma_N=-524.64$   $\sigma_M=-193.54$   $\tau=18.65$   $\sigma_{ID,max}=718.91$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-4896.22 T<sub>z</sub>=-17.01 M<sub>y</sub>=-86.50 M<sub>z</sub>=-4.87  
V,Ed=-17.01 Vc,Rd,Red=11767.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5081.65 T<sub>z</sub>=-10.56 M<sub>y</sub>=-47.92 M<sub>z</sub>=1.46 M<sub>x</sub>=-12.36  
Tensioni:  $\sigma_N=-369.31$   $\sigma_M=-117.85$   $\tau=23.78$   $\sigma_{max}=-487.15$   
Tensioni:  $\sigma_N=-369.31$   $\sigma_M=5.18$   $\tau=25.15$   $\tau_{max}=25.15$   
Tensioni:  $\sigma_N=-369.31$   $\sigma_M=-117.85$   $\tau=23.78$   $\sigma_{ID,max}=488.89$

Asta n. 4360 (-15023 -15089) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7208.66 M<sub>y,Ed</sub>=-78.70 M<sub>z,Ed</sub>=1.87  
Resistenze: Nc,Rd=30796.20 M<sub>y,c,Rd</sub>=951.93 M<sub>z,c,Rd</sub>=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.23+0.06+0.00=0.30  
Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6834.39 T<sub>z</sub>=-48.07 M<sub>y</sub>=-91.21 T<sub>y</sub>=4.47 M<sub>z</sub>=1.11 M<sub>x</sub>=-4.00  
Tensioni:  $\sigma_N=-496.69$   $\sigma_M=-218.38$   $\tau=7.69$   $\sigma_{max}=-715.06$   
Tensioni:  $\sigma_N=-496.69$   $\sigma_M=3.42$   $\tau=13.92$   $\tau_{max}=13.92$   
Tensioni:  $\sigma_N=-496.69$   $\sigma_M=-218.38$   $\tau=7.69$   $\sigma_{ID,max}=715.19$

- Verifica a taglio dir. Y [4.2.16] - CC 25 SLU Xl=0.10

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Sollecitazioni:  $N=-4896.52$   $T_z=-53.95$   $M_y=-80.74$   $T_y=3.54$   
 $V,Ed=3.54$   $V_c,Rd=5926.90$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-53.95$   $V_c,Rd=11853.80$   $V,Ed/V_c,Rd=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-5100.77$   $T_z=-25.96$   $M_y=-46.73$   $T_y=2.63$   $M_z=1.44$   $M_x=-11.04$   
Tensioni:  $\sigma_N=-370.69$   $\sigma_M=-114.97$   $\tau=21.24$   $\sigma_{max}=-485.67$   
Tensioni:  $\sigma_N=-370.69$   $\sigma_M=4.41$   $\tau=24.61$   $\tau_{max}=24.61$   
Tensioni:  $\sigma_N=-370.69$   $\sigma_M=-114.97$   $\tau=21.24$   $\sigma_{ID,max}=487.06$

Asta n. 4360 (-15089 -15157) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7210.56$   $M_y,Ed=-73.42$   $M_z,Ed=2.32$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.23+0.06+0.00=0.30$   
Verifica ZZ:  $0.23+0.05+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-7210.56$   $T_z=-65.49$   $M_y=-73.42$   $T_y=3.72$   $M_z=1.96$   $M_x=-3.74$   
Tensioni:  $\sigma_N=-524.02$   $\sigma_M=-179.55$   $\tau=7.19$   $\sigma_{max}=-703.57$   
Tensioni:  $\sigma_N=-524.02$   $\sigma_M=6.00$   $\tau=15.68$   $\tau_{max}=15.68$   
Tensioni:  $\sigma_N=-524.02$   $\sigma_M=-179.55$   $\tau=7.19$   $\sigma_{ID,max}=703.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.02$   
Sollecitazioni:  $N=-4894.13$   $T_z=-81.35$   $M_y=-77.72$   $T_y=5.06$   $M_x=2.80$   
 $V,Ed=5.06$   $V_c,Rd,Red=5902.16$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-81.35$   $V_c,Rd,Red=11804.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-5120.04$   $T_z=-40.81$   $M_y=-43.70$   $T_y=3.55$   $M_z=1.36$   $M_x=10.64$   
Tensioni:  $\sigma_N=-372.10$   $\sigma_M=-107.55$   $\tau=20.48$   $\sigma_{max}=-479.65$   
Tensioni:  $\sigma_N=-372.10$   $\sigma_M=-4.17$   $\tau=25.77$   $\tau_{max}=25.77$   
Tensioni:  $\sigma_N=-372.10$   $\sigma_M=-107.55$   $\tau=20.48$   $\sigma_{ID,max}=480.96$

Asta n. 4360 (-15157 -15223) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-7249.41$   $M_y,Ed=-64.99$   $M_z,Ed=2.74$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357700.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387500.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.24+0.05+0.00=0.29$   
Verifica ZZ:  $0.24+0.04+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-7249.41$   $T_z=-81.93$   $M_y=-64.99$   $T_y=-13.50$   $M_z=2.74$   $M_x=-2.32$   
Tensioni:  $\sigma_N=-526.85$   $\sigma_M=-162.50$   $\tau=4.47$   $\sigma_{max}=-689.34$   
Tensioni:  $\sigma_N=-526.85$   $\sigma_M=8.41$   $\tau=15.09$   $\tau_{max}=15.09$   
Tensioni:  $\sigma_N=-526.85$   $\sigma_M=-162.50$   $\tau=4.47$   $\sigma_{ID,max}=689.39$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.02$   
Sollecitazioni:  $N=-5208.03$   $T_z=-67.74$   $M_y=-58.48$   $T_y=-7.14$   $M_x=2.64$   
 $V,Ed=-7.14$   $V_c,Rd,Red=5903.64$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-67.74$   $V_c,Rd,Red=11807.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-5153.90$   $T_z=-51.10$   $M_y=-39.10$   $T_y=-6.49$   $M_z=1.24$   $M_x=11.11$

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Tensioni:  $\sigma_N=-374.56$   $\sigma_M=-96.31$   $\tau=21.38$   $\sigma_{max}=-470.87$   
 Tensioni:  $\sigma_N=-374.56$   $\sigma_M=-3.79$   $\tau=28.00$   $\tau_{max}=28.00$   
 Tensioni:  $\sigma_N=-374.56$   $\sigma_M=-96.31$   $\tau=21.38$   $\sigma_{ID,max}=472.32$

Asta n. 4360 (-15223 -15290) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-7351.19$   $M_y, Ed=-54.82$   $M_z, Ed=-10.80$   
 Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.24+0.04+0.02=0.30$

Verifica ZZ:  $0.24+0.04+0.02=0.29$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-7351.10$   $T_z=-92.87$   $M_y=-46.03$   $T_y=-128.95$   $M_z=-10.80$   $M_x=-2.21$

Tensioni:  $\sigma_N=-534.24$   $\sigma_M=-146.44$   $\tau=4.25$   $\sigma_{max}=-680.68$

Tensioni:  $\sigma_N=-534.24$   $\sigma_M=101.01$   $\tau=34.96$   $\tau_{max}=34.96$

Tensioni:  $\sigma_N=-534.24$   $\sigma_M=-146.44$   $\tau=4.25$   $\sigma_{ID,max}=680.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.01$

Sollecitazioni:  $N=-7351.18$   $T_z=-87.58$   $M_y=-54.05$   $T_y=-128.95$   $M_x=-2.21$

$V, Ed=-128.95$   $V_c, Rd, Red=5907.43$   $V, Ed/V_c, Rd, Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V, Ed=-87.58$   $V_c, Rd, Red=11814.90$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5224.99$   $T_z=-59.10$   $M_y=-29.34$   $T_y=-89.56$   $M_z=-9.16$   $M_x=11.18$

Tensioni:  $\sigma_N=-379.72$   $\sigma_M=-101.41$   $\tau=21.51$   $\sigma_{max}=-481.13$

Tensioni:  $\sigma_N=-379.72$   $\sigma_M=-64.38$   $\tau=42.83$   $\tau_{max}=42.83$

Tensioni:  $\sigma_N=-379.72$   $\sigma_M=-101.41$   $\tau=21.51$   $\sigma_{ID,max}=482.57$

Asta n. 4360 (-15290 -15356) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-8021.25$   $M_y, Ed=-64.61$   $M_z, Ed=-15.19$   
 Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.26+0.05+0.02=0.34$

Verifica ZZ:  $0.26+0.04+0.02=0.33$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-8021.25$   $T_z=91.25$   $M_y=-55.98$   $T_y=155.75$   $M_z=-15.19$   $M_x=-29.89$

Tensioni:  $\sigma_N=-582.94$   $\sigma_M=-185.36$   $\tau=57.51$   $\sigma_{max}=-768.30$

Tensioni:  $\sigma_N=-582.94$   $\sigma_M=-122.84$   $\tau=94.60$   $\tau_{max}=94.60$

Tensioni:  $\sigma_N=-582.94$   $\sigma_M=-178.19$   $\tau=88.38$   $\sigma_{ID,max}=776.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$

Sollecitazioni:  $N=-8021.16$   $T_z=85.42$   $M_y=-64.61$   $T_y=155.75$   $M_x=-29.89$

$V, Ed=155.75$   $V_c, Rd, Red=5663.11$   $V, Ed/V_c, Rd, Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V, Ed=85.42$   $V_c, Rd, Red=11326.20$   $V, Ed/V_c, Rd, Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-5649.52$   $T_z=58.89$   $M_y=-33.64$   $T_y=92.49$   $M_z=-10.20$   $M_x=-22.46$

Tensioni:  $\sigma_N=-410.58$   $\sigma_M=-115.19$   $\tau=43.22$   $\sigma_{max}=-525.77$

Tensioni:  $\sigma_N=-410.58$   $\sigma_M=-73.83$   $\tau=65.24$   $\tau_{max}=65.24$

Tensioni:  $\sigma_N=-410.58$   $\sigma_M=-110.38$   $\tau=61.55$   $\sigma_{ID,max}=531.75$

Asta n. 4360 (-15356 -15422) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N, Ed=-7810.65$   $M_y, Ed=-74.98$   $M_z, Ed=2.11$

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.25+0.06+0.00=0.32  
 Verifica ZZ: 0.25+0.05+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7810.56 T<sub>z</sub>=82.67 M<sub>y</sub>=-74.98 T<sub>y</sub>=24.98 M<sub>z</sub>=2.11 M<sub>x</sub>=-29.83  
 Tensioni:  $\sigma_N=-567.63$   $\sigma_M=-183.76$   $\tau=57.39$   $\sigma_{max}=-751.39$   
 Tensioni:  $\sigma_N=-567.63$   $\sigma_M=-6.47$   $\tau=68.11$   $\tau_{max}=68.11$   
 Tensioni:  $\sigma_N=-567.63$   $\sigma_M=-182.76$   $\tau=62.34$   $\sigma_{ID,max}=758.12$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-5341.55 T<sub>z</sub>=119.07 M<sub>y</sub>=-69.27 T<sub>y</sub>=6.44 M<sub>z</sub>=-26.63  
 V,Ed=6.44 Vc,Rd,Red=5691.85 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=119.07 Vc,Rd,Red=11383.70 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5565.49 T<sub>z</sub>=51.64 M<sub>y</sub>=-42.40 T<sub>y</sub>=7.62 M<sub>z</sub>=1.34 M<sub>x</sub>=-22.49  
 Tensioni:  $\sigma_N=-404.47$   $\sigma_M=-104.45$   $\tau=43.28$   $\sigma_{max}=-508.92$   
 Tensioni:  $\sigma_N=-404.47$   $\sigma_M=-4.12$   $\tau=49.97$   $\tau_{max}=49.97$   
 Tensioni:  $\sigma_N=-404.47$   $\sigma_M=-104.45$   $\tau=43.28$   $\sigma_{ID,max}=514.41$

Asta n. 4360 (-15422 -15488) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7705.47 My,Ed=-83.45 Mz,Ed=1.73  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.25+0.07+0.00=0.32  
 Verifica ZZ: 0.25+0.05+0.00=0.31
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7354.00 T<sub>z</sub>=85.75 M<sub>y</sub>=-97.39 T<sub>y</sub>=-1.79 M<sub>z</sub>=1.38 M<sub>x</sub>=-29.98  
 Tensioni:  $\sigma_N=-534.45$   $\sigma_M=-233.84$   $\tau=57.69$   $\sigma_{max}=-768.28$   
 Tensioni:  $\sigma_N=-534.45$   $\sigma_M=-4.22$   $\tau=68.80$   $\tau_{max}=68.80$   
 Tensioni:  $\sigma_N=-534.45$   $\sigma_M=-233.84$   $\tau=57.69$   $\sigma_{ID,max}=774.75$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.02  
 Sollecitazioni: N=-5329.33 T<sub>z</sub>=95.64 M<sub>y</sub>=-84.84 T<sub>y</sub>=-4.23 M<sub>z</sub>=-24.79  
 V,Ed=-4.23 Vc,Rd,Red=5708.14 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=95.64 Vc,Rd,Red=11416.30 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5545.00 T<sub>z</sub>=42.26 M<sub>y</sub>=-46.30 T<sub>y</sub>=-3.87 M<sub>z</sub>=1.47 M<sub>x</sub>=-21.93  
 Tensioni:  $\sigma_N=-402.98$   $\sigma_M=-114.06$   $\tau=42.21$   $\sigma_{max}=-517.03$   
 Tensioni:  $\sigma_N=-402.98$   $\sigma_M=-4.50$   $\tau=47.68$   $\tau_{max}=47.68$   
 Tensioni:  $\sigma_N=-402.98$   $\sigma_M=-114.06$   $\tau=42.21$   $\sigma_{ID,max}=522.18$
- Asta n. 4360 (-15488 -15554) Tubo 60x120x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7338.20 My,Ed=-104.89 Mz,Ed=1.38  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.08+0.00=0.32  
 Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7338.11$   $T_x=55.02$   $M_y=-104.89$   $T_y=-3.57$   $M_z=1.03$   $M_x=-26.70$   
 Tensioni:  $\sigma_N=-533.29$   $\sigma_M=-250.25$   $\tau=51.37$   $\sigma_{max}=-783.54$   
 Tensioni:  $\sigma_N=-533.29$   $\sigma_M=-3.16$   $\tau=58.51$   $\tau_{max}=58.51$   
 Tensioni:  $\sigma_N=-533.29$   $\sigma_M=-250.25$   $\tau=51.37$   $\sigma_{ID,max}=788.58$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-5348.00$   $T_x=66.27$   $M_y=-94.22$   $T_y=-3.77$   $M_x=-21.51$   
 $V,Ed=-3.77$   $Vc,Rd,Red=5737.05$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=66.27$   $Vc,Rd,Red=11474.10$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5554.46$   $T_x=29.66$   $M_y=-48.82$   $T_y=-3.57$   $M_z=1.54$   $M_x=-20.93$   
 Tensioni:  $\sigma_N=-403.67$   $\sigma_M=-120.24$   $\tau=40.28$   $\sigma_{max}=-523.91$   
 Tensioni:  $\sigma_N=-403.67$   $\sigma_M=-4.73$   $\tau=44.13$   $\tau_{max}=44.13$   
 Tensioni:  $\sigma_N=-403.67$   $\sigma_M=-120.24$   $\tau=40.28$   $\sigma_{ID,max}=528.53$

Asta n. 4360 (-15554 -15620) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7343.37$   $My,Ed=-107.82$   $Mz,Ed=1.06$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.09+0.00=0.33$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$
- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-7343.33$   $T_x=20.40$   $M_y=-106.67$   $T_y=-1.70$   $M_z=1.00$   $M_x=-22.44$   
 Tensioni:  $\sigma_N=-533.67$   $\sigma_M=-254.33$   $\tau=43.18$   $\sigma_{max}=-788.01$   
 Tensioni:  $\sigma_N=-533.67$   $\sigma_M=-3.07$   $\tau=45.82$   $\tau_{max}=45.82$   
 Tensioni:  $\sigma_N=-533.67$   $\sigma_M=-254.33$   $\tau=43.18$   $\sigma_{ID,max}=791.55$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-5375.56$   $T_x=28.03$   $M_y=-101.52$   $T_y=-1.91$   $M_x=-17.25$   
 $V,Ed=-1.91$   $Vc,Rd,Red=5774.69$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=28.03$   $Vc,Rd,Red=11549.40$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5572.84$   $T_x=17.00$   $M_y=-49.48$   $T_y=-1.62$   $M_z=1.55$   $M_x=-19.63$   
 Tensioni:  $\sigma_N=-405.00$   $\sigma_M=-121.84$   $\tau=37.78$   $\sigma_{max}=-526.84$   
 Tensioni:  $\sigma_N=-405.00$   $\sigma_M=-4.76$   $\tau=39.98$   $\tau_{max}=39.98$   
 Tensioni:  $\sigma_N=-405.00$   $\sigma_M=-121.84$   $\tau=37.78$   $\sigma_{ID,max}=530.89$

Asta n. 4360 (-15620 -15686) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7362.66$   $My,Ed=-107.92$   $Mz,Ed=1.05$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357700.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387500.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.09+0.00=0.33$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$
- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-7362.63$   $T_x=-18.75$   $M_y=-107.29$   $M_z=1.01$   $M_x=-17.83$   
 Tensioni:  $\sigma_N=-535.08$   $\sigma_M=-255.81$   $\tau=34.30$   $\sigma_{max}=-790.89$   
 Tensioni:  $\sigma_N=-535.08$   $\sigma_M=3.56$   $\tau=36.73$   $\tau_{max}=36.73$   
 Tensioni:  $\sigma_N=-535.08$   $\sigma_M=-255.81$   $\tau=34.30$   $\sigma_{ID,max}=793.12$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.03$   
 Sollecitazioni:  $N=-7362.64$   $T_x=-18.23$   $M_y=-107.45$   $M_x=-17.83$



V,Ed=-18.23 Vc,Rd,Red=11539.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5595.73 T<sub>z</sub>=-14.03 M<sub>y</sub>=-49.46 M<sub>z</sub>=1.54 M<sub>x</sub>=-18.26  
Tensioni:  $\sigma_N$ =-406.67  $\sigma_M$ =-121.76  $\tau$ =35.14  $\sigma_{max}$ =-528.43  
Tensioni:  $\sigma_N$ =-406.67  $\sigma_M$ =5.47  $\tau$ =36.96  $\tau_{max}$ =36.96  
Tensioni:  $\sigma_N$ =-406.67  $\sigma_M$ =-121.76  $\tau$ =35.14  $\sigma_{ID,max}$ =531.92

Asta n. 4360 (-15686 -15752) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7394.24 M<sub>y</sub>,Ed=-105.18 M<sub>z</sub>,Ed=1.46  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.08+0.00=0.33  
Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7394.24 T<sub>z</sub>=-55.25 M<sub>y</sub>=-105.18 T<sub>y</sub>=2.71 M<sub>z</sub>=1.20 M<sub>x</sub>=-13.51  
Tensioni:  $\sigma_N$ =-537.37  $\sigma_M$ =-251.53  $\tau$ =26.00  $\sigma_{max}$ =-788.90  
Tensioni:  $\sigma_N$ =-537.37  $\sigma_M$ =3.67  $\tau$ =33.17  $\tau_{max}$ =33.17  
Tensioni:  $\sigma_N$ =-537.37  $\sigma_M$ =-251.53  $\tau$ =26.00  $\sigma_{ID,max}$ =790.19

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-5445.78 T<sub>z</sub>=-55.06 M<sub>y</sub>=-97.00 T<sub>y</sub>=1.82 M<sub>z</sub>=-8.34  
V,Ed=1.82 Vc,Rd,Red=5853.31 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-55.06 Vc,Rd,Red=11706.60 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5621.99 T<sub>z</sub>=-29.51 M<sub>y</sub>=-47.92 T<sub>y</sub>=2.41 M<sub>z</sub>=1.50 M<sub>x</sub>=-17.00  
Tensioni:  $\sigma_N$ =-408.57  $\sigma_M$ =-117.98  $\tau$ =32.71  $\sigma_{max}$ =-526.55  
Tensioni:  $\sigma_N$ =-408.57  $\sigma_M$ =4.61  $\tau$ =36.54  $\tau_{max}$ =36.54  
Tensioni:  $\sigma_N$ =-408.57  $\sigma_M$ =-117.98  $\tau$ =32.71  $\sigma_{ID,max}$ =529.59

Asta n. 4360 (-15752 -15818) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7441.48 M<sub>y</sub>,Ed=-97.84 M<sub>z</sub>,Ed=1.82  
Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.08+0.00=0.32  
Verifica ZZ: 0.24+0.06+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7441.48 T<sub>z</sub>=-86.76 M<sub>y</sub>=-97.84 T<sub>y</sub>=1.52 M<sub>z</sub>=1.67 M<sub>x</sub>=-10.11  
Tensioni:  $\sigma_N$ =-540.80  $\sigma_M$ =-235.95  $\tau$ =19.46  $\sigma_{max}$ =-776.75  
Tensioni:  $\sigma_N$ =-540.80  $\sigma_M$ =5.12  $\tau$ =30.71  $\tau_{max}$ =30.71  
Tensioni:  $\sigma_N$ =-540.80  $\sigma_M$ =-235.95  $\tau$ =19.46  $\sigma_{ID,max}$ =777.48

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.05  
Sollecitazioni: N=-5489.00 T<sub>z</sub>=-83.54 M<sub>y</sub>=-91.07 T<sub>y</sub>=2.01 M<sub>z</sub>=-4.96  
V,Ed=2.01 Vc,Rd,Red=5883.16 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-83.54 Vc,Rd,Red=11766.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5654.26 T<sub>z</sub>=-42.52 M<sub>y</sub>=-44.53 T<sub>y</sub>=2.48 M<sub>z</sub>=1.39 M<sub>x</sub>=-16.03  
Tensioni:  $\sigma_N$ =-410.92  $\sigma_M$ =-109.64  $\tau$ =30.84  $\sigma_{max}$ =-520.56  
Tensioni:  $\sigma_N$ =-410.92  $\sigma_M$ =4.28  $\tau$ =36.35  $\tau_{max}$ =36.35  
Tensioni:  $\sigma_N$ =-410.92  $\sigma_M$ =-109.64  $\tau$ =30.84  $\sigma_{ID,max}$ =523.29

Asta n. 4360 (-15818 -15884) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7527.68 My,Ed=-86.82 Mz,Ed=2.41  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357700.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387500.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY: 0.24+0.07+0.00=0.32  
 Verifica ZZ: 0.24+0.06+0.00=0.30
  
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7527.68 T<sub>z</sub>=-109.69 M<sub>y</sub>=-86.82 T<sub>y</sub>=-18.65 M<sub>z</sub>=2.41 M<sub>x</sub>=-8.13  
 Tensioni:  $\sigma_N=-547.07$   $\sigma_M=-212.68$   $\tau=15.64$   $\sigma_{max}=-759.75$   
 Tensioni:  $\sigma_N=-547.07$   $\sigma_M=7.41$   $\tau=29.86$   $\tau_{max}=29.86$   
 Tensioni:  $\sigma_N=-547.07$   $\sigma_M=-212.68$   $\tau=15.64$   $\sigma_{ID,max}=760.23$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-7527.59 T<sub>z</sub>=-115.51 M<sub>y</sub>=-75.82 T<sub>y</sub>=-18.65 M<sub>x</sub>=-8.13  
 $V,Ed=-18.65$  Vc,Rd,Red=5855.17 V,Ed/Vc,Rd,Red=0.00
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-115.51$  Vc,Rd,Red=11710.30 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5708.45 T<sub>z</sub>=-53.33 M<sub>y</sub>=-39.78 T<sub>y</sub>=-10.56 M<sub>z</sub>=1.22 M<sub>x</sub>=-15.45  
 Tensioni:  $\sigma_N=-414.86$   $\sigma_M=-97.86$   $\tau=29.72$   $\sigma_{max}=-512.71$   
 Tensioni:  $\sigma_N=-414.86$   $\sigma_M=3.76$   $\tau=36.64$   $\tau_{max}=36.64$   
 Tensioni:  $\sigma_N=-414.86$   $\sigma_M=-97.86$   $\tau=29.72$   $\sigma_{ID,max}=515.29$

Asta n. 4360 (-15884 -15951) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7679.53 My,Ed=-73.38 Mz,Ed=-13.02  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY: 0.25+0.06+0.02=0.33  
 Verifica ZZ: 0.25+0.05+0.02=0.32
  
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7679.44 T<sub>z</sub>=-122.63 M<sub>y</sub>=-61.68 T<sub>y</sub>=-145.15 M<sub>z</sub>=-13.02 M<sub>x</sub>=-7.66  
 Tensioni:  $\sigma_N=-558.10$   $\sigma_M=-191.10$   $\tau=14.73$   $\sigma_{max}=-749.20$   
 Tensioni:  $\sigma_N=-558.10$   $\sigma_M=135.35$   $\tau=49.30$   $\tau_{max}=49.30$   
 Tensioni:  $\sigma_N=-558.10$   $\sigma_M=-191.10$   $\tau=14.73$   $\sigma_{ID,max}=749.64$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
 Sollecitazioni: N=-7963.99 T<sub>z</sub>=-101.73 M<sub>y</sub>=-59.55 T<sub>y</sub>=-153.26 M<sub>x</sub>=-10.96  
 $V,Ed=-153.26$  Vc,Rd,Red=5830.16 V,Ed/Vc,Rd,Red=0.03
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-101.73$  Vc,Rd,Red=11660.30 V,Ed/Vc,Rd,Red=0.01
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5808.17 T<sub>z</sub>=-62.51 M<sub>y</sub>=-29.41 T<sub>y</sub>=-106.73 M<sub>z</sub>=-11.20 M<sub>x</sub>=-15.24  
 Tensioni:  $\sigma_N=-422.11$   $\sigma_M=-108.78$   $\tau=29.32$   $\sigma_{max}=-530.88$   
 Tensioni:  $\sigma_N=-422.11$   $\sigma_M=64.53$   $\tau=54.73$   $\tau_{max}=54.73$   
 Tensioni:  $\sigma_N=-422.11$   $\sigma_M=-108.78$   $\tau=29.32$   $\sigma_{ID,max}=533.30$

Asta n. 4360 (-15951 -16017) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8748.99 My,Ed=-57.70 Mz,Ed=-15.65  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.28+0.05+0.02=0.35  
 Verifica ZZ: 0.28+0.04+0.02=0.34

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-8462.38 T<sub>z</sub>=-71.46 M<sub>y</sub>=-69.96 T<sub>y</sub>=138.35 M<sub>z</sub>=-13.65 M<sub>x</sub>=-18.39  
 Tensioni: σ<sub>N</sub>=-615.00 σ<sub>M</sub>=-212.79 τ=35.38 σ<sub>max</sub>=-827.79  
 Tensioni: σ<sub>N</sub>=-615.00 σ<sub>M</sub>=-153.52 τ=68.32 τ<sub>max</sub>=68.32  
 Tensioni: σ<sub>N</sub>=-615.00 σ<sub>M</sub>=-212.79 τ=35.38 σ<sub>ID,max</sub>=830.05

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
 Sollecitazioni: N=-8748.89 T<sub>z</sub>=-95.60 M<sub>y</sub>=-48.64 T<sub>y</sub>=156.90 M<sub>z</sub>=-16.62  
 V,Ed=156.90 Vc,Rd,Red=5780.23 V,Ed/Vc,Rd,Red=0.03

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-95.60 Vc,Rd,Red=11560.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6281.46 T<sub>z</sub>=-91.78 M<sub>y</sub>=-32.20 T<sub>y</sub>=102.81 M<sub>z</sub>=-11.52 M<sub>x</sub>=-11.72  
 Tensioni: σ<sub>N</sub>=-456.50 σ<sub>M</sub>=-116.47 τ=22.56 σ<sub>max</sub>=-572.97  
 Tensioni: σ<sub>N</sub>=-456.50 σ<sub>M</sub>=-70.66 τ=47.04 τ<sub>max</sub>=47.04  
 Tensioni: σ<sub>N</sub>=-456.50 σ<sub>M</sub>=-116.47 τ=22.56 σ<sub>ID,max</sub>=574.30

Asta n. 4360 (-16017 -16083) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8332.14 M<sub>y</sub>,Ed=-61.50 M<sub>z</sub>,Ed=1.19  
 Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55358200.00 λ<sub>y</sub>'=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387700.00 λ<sub>z</sub>'=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.27+0.05+0.00=0.32  
 Verifica ZZ: 0.27+0.04+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.09 - Classe 3  
 Sollecitazioni: N=-8332.06 T<sub>z</sub>=-85.73 M<sub>y</sub>=-54.11 T<sub>y</sub>=14.25 M<sub>z</sub>=1.06 M<sub>x</sub>=-17.77  
 Tensioni: σ<sub>N</sub>=-605.53 σ<sub>M</sub>=-131.00 τ=34.19 σ<sub>max</sub>=-736.52  
 Tensioni: σ<sub>N</sub>=-605.53 σ<sub>M</sub>=3.26 τ=45.30 τ<sub>max</sub>=45.30  
 Tensioni: σ<sub>N</sub>=-605.53 σ<sub>M</sub>=-131.00 τ=34.19 σ<sub>ID,max</sub>=738.90

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.07  
 Sollecitazioni: N=-8566.86 T<sub>z</sub>=-103.38 M<sub>y</sub>=-39.83 T<sub>y</sub>=22.03 M<sub>z</sub>=-16.06  
 V,Ed=22.03 Vc,Rd,Red=5785.18 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-103.38 Vc,Rd,Red=11570.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6193.82 T<sub>z</sub>=-100.99 M<sub>y</sub>=-41.34 T<sub>y</sub>=8.89 M<sub>z</sub>=1.12 M<sub>x</sub>=-11.45  
 Tensioni: σ<sub>N</sub>=-450.13 σ<sub>M</sub>=-101.16 τ=22.03 σ<sub>max</sub>=-551.29  
 Tensioni: σ<sub>N</sub>=-450.13 σ<sub>M</sub>=3.43 τ=35.12 τ<sub>max</sub>=35.12  
 Tensioni: σ<sub>N</sub>=-450.13 σ<sub>M</sub>=-101.16 τ=22.03 σ<sub>ID,max</sub>=552.61

Asta n. 4360 (-16083 -16149) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8313.52 M<sub>y</sub>,Ed=-51.91 M<sub>z</sub>,Ed=1.01  
 Resistenze: Nc,Rd=30796.20 M<sub>y,c</sub>,Rd=951.93 M<sub>z,c</sub>,Rd=632.38 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=2.27 Ncr,y=55357200.00 λ<sub>y</sub>'=0.02 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.94 Ncr,z=18387300.00 λ<sub>z</sub>'=0.04 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.27+0.04+0.00=0.31  
 Verifica ZZ: 0.27+0.03+0.00=0.30

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-8313.52 T<sub>z</sub>=-101.84 M<sub>y</sub>=-51.91 T<sub>y</sub>=-5.52 M<sub>z</sub>=1.01 M<sub>x</sub>=-15.63  
 Tensioni: σ<sub>N</sub>=-604.18 σ<sub>M</sub>=-125.63 τ=30.08 σ<sub>max</sub>=-729.81  
 Tensioni: σ<sub>N</sub>=-604.18 σ<sub>M</sub>=3.10 τ=43.28 τ<sub>max</sub>=43.28

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Tensioni:  $\sigma_N=-604.18$   $\sigma_M=-125.63$   $\tau=30.08$   $\sigma_{ID,max}=731.66$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-8313.42$   $T_z=-107.66$   $M_y=-41.67$   $T_y=-5.52$   $M_x=-15.63$   
 $V,Ed=-5.52$   $V_c,Rd,Red=5788.95$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-107.66$   $V_c,Rd,Red=11577.90$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6179.88$   $T_z=-107.35$   $M_y=-47.45$   $T_y=-4.87$   $M_z=-1.38$   $M_x=-10.81$   
Tensioni:  $\sigma_N=-449.12$   $\sigma_M=-116.46$   $\tau=20.79$   $\sigma_{max}=-565.58$   
Tensioni:  $\sigma_N=-449.12$   $\sigma_M=-4.24$   $\tau=34.71$   $\tau_{max}=34.71$   
Tensioni:  $\sigma_N=-449.12$   $\sigma_M=-116.46$   $\tau=20.79$   $\sigma_{ID,max}=566.73$

Asta n. 4360 (-16149 -16215) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-8359.04$   $M_y,Ed=-39.61$   $M_z,Ed=0.63$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.27+0.03+0.00=0.30$   
Verifica ZZ:  $0.27+0.03+0.00=0.30$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-8512.63$   $T_z=-144.46$   $M_y=-21.20$   $T_y=-6.51$   $M_z=1.07$   $M_x=-11.47$   
Tensioni:  $\sigma_N=-618.65$   $\sigma_M=-53.63$   $\tau=22.06$   $\sigma_{max}=-672.28$   
Tensioni:  $\sigma_N=-618.65$   $\sigma_M=3.29$   $\tau=40.79$   $\tau_{max}=40.79$   
Tensioni:  $\sigma_N=-618.65$   $\sigma_M=-53.63$   $\tau=22.06$   $\sigma_{ID,max}=673.37$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-8512.54$   $T_z=-150.29$   $M_y=-6.79$   $T_y=-6.51$   $M_x=-11.47$   
 $V,Ed=-6.51$   $V_c,Rd,Red=5825.70$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-150.29$   $V_c,Rd,Red=11651.40$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-6203.58$   $T_z=-117.55$   $M_y=-52.35$   $T_y=-5.25$   $M_z=-1.79$   $M_x=-9.80$   
Tensioni:  $\sigma_N=-450.84$   $\sigma_M=-129.39$   $\tau=18.86$   $\sigma_{max}=-580.23$   
Tensioni:  $\sigma_N=-450.84$   $\sigma_M=-5.48$   $\tau=34.10$   $\tau_{max}=34.10$   
Tensioni:  $\sigma_N=-450.84$   $\sigma_M=-129.39$   $\tau=18.86$   $\sigma_{ID,max}=581.15$

Asta n. 4360 (-16215 -16281) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-8431.96$   $M_y,Ed=-23.18$   $M_z,Ed=-0.60$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.27+0.02+0.00=0.29$   
Verifica ZZ:  $0.27+0.01+0.00=0.29$
- Verifica a compressione [4.2.9] - CC 45 SLU  $X_l=0.02$  - Classe 1  
Sollecitazioni:  $N=-8556.59$   $T_z=-175.74$   $T_y=-5.18$   $M_x=-7.85$   
 $N,Ed=-8556.59$   $N_c,Rd=-30796.20$   $N,Ed/N_c,Rd=0.28$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-8556.52$   $T_z=-180.51$   $M_y=13.62$   $T_y=-5.18$   $M_x=-7.85$   
 $V,Ed=-5.18$   $V_c,Rd,Red=5857.66$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-180.51$   $V_c,Rd,Red=11715.30$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

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Sollecitazioni:  $N=-6241.35$   $T_x=-128.88$   $M_y=-55.70$   $T_y=-3.46$   $M_z=-2.01$   $M_x=-8.59$

Tensioni:  $\sigma_N=-453.59$   $\sigma_M=-138.07$   $\tau=16.53$   $\sigma_{max}=-591.66$

Tensioni:  $\sigma_N=-453.59$   $\sigma_M=-6.16$   $\tau=33.23$   $\tau_{max}=33.23$

Tensioni:  $\sigma_N=-453.59$   $\sigma_M=-138.07$   $\tau=16.53$   $\sigma_{ID,max}=592.35$

Asta n. 4360 (-16281 -16347) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-8623.06$   $M_y,Ed=38.12$   $M_z,Ed=0.21$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$

Verifica YY:  $0.28+0.03+0.00=0.31$

Verifica ZZ:  $0.28+0.02+0.00=0.30$

- Verifica a compressione [4.2.9] - CC 49 SLU  $X1=0.01$  - Classe 1

Sollecitazioni:  $N=-8520.95$   $T_x=-214.69$   $T_y=-5.00$   $M_x=-2.59$

$N,Ed=-8520.95$   $N_c,Rd=-30796.20$   $N,Ed/N_c,Rd=0.28$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X1=0.10$

Sollecitazioni:  $N=-8520.87$   $T_x=-219.98$   $M_y=19.08$   $T_y=-5.00$   $M_x=-2.59$

$V,Ed=-5.00$   $V_c,Rd,Red=5904.05$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-219.98$   $V_c,Rd,Red=11808.10$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-6286.44$   $T_x=-142.13$   $M_y=-57.46$   $T_y=-2.34$   $M_z=-2.07$   $M_x=-7.35$

Tensioni:  $\sigma_N=-456.86$   $\sigma_M=-142.45$   $\tau=14.15$   $\sigma_{max}=-599.31$

Tensioni:  $\sigma_N=-456.86$   $\sigma_M=-6.36$   $\tau=32.57$   $\tau_{max}=32.57$

Tensioni:  $\sigma_N=-456.86$   $\sigma_M=-142.45$   $\tau=14.15$   $\sigma_{ID,max}=599.81$

Asta n. 4360 (-16347 -16413) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-8707.34$   $M_y,Ed=66.36$   $M_z,Ed=-0.26$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.96$ ,  $0.76$ ,  $0.96$

Verifica YY:  $0.28+0.05+0.00=0.34$

Verifica ZZ:  $0.28+0.04+0.00=0.33$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-7637.97$   $T_x=-230.25$   $M_y=28.08$   $M_z=-1.75$   $M_x=3.71$

Tensioni:  $\sigma_N=-555.09$   $\sigma_M=-72.23$   $\tau=7.14$   $\sigma_{max}=-627.31$

Tensioni:  $\sigma_N=-555.09$   $\sigma_M=5.37$   $\tau=36.98$   $\tau_{max}=36.98$

Tensioni:  $\sigma_N=-555.09$   $\sigma_M=-72.23$   $\tau=7.14$   $\sigma_{ID,max}=627.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X1=0.10$

Sollecitazioni:  $N=-8620.73$   $T_x=-257.86$   $M_y=48.79$   $T_y=-3.64$   $M_x=2.00$

$V,Ed=-3.64$   $V_c,Rd,Red=5909.28$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-257.86$   $V_c,Rd,Red=11818.60$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-6336.63$   $T_x=-154.51$   $M_y=68.50$   $T_y=-2.49$   $M_z=-1.99$   $M_x=7.99$

Tensioni:  $\sigma_N=-460.51$   $\sigma_M=-168.10$   $\tau=15.37$   $\sigma_{max}=-628.62$

Tensioni:  $\sigma_N=-460.51$   $\sigma_M=6.11$   $\tau=35.39$   $\tau_{max}=35.39$

Tensioni:  $\sigma_N=-460.51$   $\sigma_M=-168.10$   $\tau=15.37$   $\sigma_{ID,max}=629.18$

Asta n. 4360 (-16413 -16479) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-8810.01$   $M_y,Ed=97.96$   $M_z,Ed=-0.72$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.29+0.08+0.00=0.37

Verifica ZZ: 0.29+0.06+0.00=0.35

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-8730.11 Tz=-290.68 My=82.54 Ty=-6.51 Mz=-1.31 Mx=5.61  
 Tensioni:  $\sigma_N=-634.46$   $\sigma_M=-198.71$   $\tau=10.80$   $\sigma_{max}=-833.17$   
 Tensioni:  $\sigma_N=-634.46$   $\sigma_M=4.02$   $\tau=48.48$   $\tau_{max}=48.48$   
 Tensioni:  $\sigma_N=-634.46$   $\sigma_M=-198.71$   $\tau=10.80$   $\sigma_{ID,max}=833.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.04  
 Sollecitazioni: N=-8730.16 Tz=-287.51 My=67.13 Ty=-6.51 Mx=5.61  
 V,Ed=-6.51 Vc,Rd,Red=5877.35 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-287.51 Vc,Rd,Red=11754.70 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6392.88 Tz=-165.94 My=86.57 Ty=-2.15 Mz=-2.00 Mx=8.99  
 Tensioni:  $\sigma_N=-464.60$   $\sigma_M=-210.60$   $\tau=17.30$   $\sigma_{max}=-675.20$   
 Tensioni:  $\sigma_N=-464.60$   $\sigma_M=6.12$   $\tau=38.81$   $\tau_{max}=38.81$   
 Tensioni:  $\sigma_N=-464.60$   $\sigma_M=-210.60$   $\tau=17.30$   $\sigma_{ID,max}=675.87$

Asta n. 4360 (-16479 -16545) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-8951.41 My,Ed=131.90 Mz,Ed=-2.78  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.29+0.11+0.00=0.40

Verifica ZZ: 0.29+0.08+0.00=0.38

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-8951.32 Tz=-291.38 My=131.90 Ty=-26.94 Mz=-2.78 Mx=4.43  
 Tensioni:  $\sigma_N=-650.53$   $\sigma_M=-319.96$   $\tau=8.53$   $\sigma_{max}=-970.49$   
 Tensioni:  $\sigma_N=-650.53$   $\sigma_M=8.54$   $\tau=46.30$   $\tau_{max}=46.30$   
 Tensioni:  $\sigma_N=-650.53$   $\sigma_M=-319.96$   $\tau=8.53$   $\sigma_{ID,max}=970.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.01  
 Sollecitazioni: N=-8866.92 Tz=-308.37 My=91.50 Ty=-23.09 Mx=7.82  
 V,Ed=-23.09 Vc,Rd,Red=5857.87 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-308.37 Vc,Rd,Red=11715.70 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-6469.30 Tz=-174.85 My=105.94 Ty=-13.45 Mz=-2.92 Mx=9.54  
 Tensioni:  $\sigma_N=-470.15$   $\sigma_M=-259.42$   $\tau=18.36$   $\sigma_{max}=-729.57$   
 Tensioni:  $\sigma_N=-470.15$   $\sigma_M=8.96$   $\tau=41.03$   $\tau_{max}=41.03$   
 Tensioni:  $\sigma_N=-470.15$   $\sigma_M=-259.42$   $\tau=18.36$   $\sigma_{ID,max}=730.26$

Asta n. 4360 (-16545 -16611) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-9138.74 My,Ed=166.28 Mz,Ed=-13.74  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.30+0.13+0.02=0.45

Verifica ZZ: 0.30+0.11+0.02=0.42

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni:  $N=-9138.65$   $T_x=-295.51$   $M_y=166.28$   $T_y=-117.59$   $M_z=-13.74$   $M_x=4.76$

Tensioni:  $\sigma_N=-664.15$   $\sigma_M=-439.58$   $\tau=9.16$   $\sigma_{max}=-1103.72$

Tensioni:  $\sigma_N=-664.15$   $\sigma_M=42.16$   $\tau=47.49$   $\tau_{max}=47.49$

Tensioni:  $\sigma_N=-664.15$   $\sigma_M=-439.58$   $\tau=9.16$   $\sigma_{ID,max}=1103.84$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$

Sollecitazioni:  $N=-2189.64$   $T_x=-118.00$   $M_y=24.22$   $T_y=-16.49$   $M_x=3.98$

$V,Ed=-16.49$   $V_c,Rd,Red=5891.80$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-118.00$   $V_c,Rd,Red=11783.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-6583.14$   $T_x=-177.66$   $M_y=125.90$   $T_y=-91.18$   $M_z=-11.48$   $M_x=9.49$

Tensioni:  $\sigma_N=-478.43$   $\sigma_M=-336.66$   $\tau=18.27$   $\sigma_{max}=-815.08$

Tensioni:  $\sigma_N=-478.43$   $\sigma_M=35.23$   $\tau=41.32$   $\tau_{max}=41.32$

Tensioni:  $\sigma_N=-478.43$   $\sigma_M=-336.66$   $\tau=18.27$   $\sigma_{ID,max}=815.70$

Asta n. 4360 (-16611 -16578) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-9143.33$   $M_y,Ed=166.38$   $M_z,Ed=-13.78$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.30+0.13+0.02=0.45$

Verifica ZZ:  $0.30+0.11+0.02=0.42$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-9143.24$   $T_x=294.01$   $M_y=166.38$   $T_y=117.70$   $M_z=-13.78$   $M_x=-5.02$

Tensioni:  $\sigma_N=-664.48$   $\sigma_M=-439.95$   $\tau=9.66$   $\sigma_{max}=-1104.43$

Tensioni:  $\sigma_N=-664.48$   $\sigma_M=42.27$   $\tau=47.80$   $\tau_{max}=47.80$

Tensioni:  $\sigma_N=-664.48$   $\sigma_M=-439.95$   $\tau=9.66$   $\sigma_{ID,max}=1104.55$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.10$

Sollecitazioni:  $N=-2185.07$   $T_x=117.71$   $M_y=24.30$   $T_y=16.85$   $M_x=-4.19$

$V,Ed=16.85$   $V_c,Rd,Red=5889.96$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=117.71$   $V_c,Rd,Red=11779.90$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-6638.34$   $T_x=180.84$   $M_y=125.99$   $T_y=86.79$   $M_z=-11.05$   $M_x=-9.43$

Tensioni:  $\sigma_N=-482.44$   $\sigma_M=-335.32$   $\tau=18.15$   $\sigma_{max}=-817.76$

Tensioni:  $\sigma_N=-482.44$   $\sigma_M=33.90$   $\tau=41.61$   $\tau_{max}=41.61$

Tensioni:  $\sigma_N=-482.44$   $\sigma_M=-335.32$   $\tau=18.15$   $\sigma_{ID,max}=818.37$

Asta n. 4360 (-16578 -16512) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-8954.96$   $M_y,Ed=132.24$   $M_z,Ed=-2.78$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.29+0.11+0.00=0.40$

Verifica ZZ:  $0.29+0.09+0.00=0.38$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-8954.87$   $T_x=292.85$   $M_y=132.24$   $T_y=26.84$   $M_z=-2.78$   $M_x=-4.71$

Tensioni:  $\sigma_N=-650.79$   $\sigma_M=-320.76$   $\tau=9.07$   $\sigma_{max}=-971.55$

Tensioni:  $\sigma_N=-650.79$   $\sigma_M=8.54$   $\tau=47.03$   $\tau_{max}=47.03$

Tensioni:  $\sigma_N=-650.79$   $\sigma_M=-320.76$   $\tau=9.07$   $\sigma_{ID,max}=971.67$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.09$

Sollecitazioni:  $N=-8869.28$   $T_x=309.83$   $M_y=91.75$   $T_y=22.95$   $M_x=-8.19$

$V,Ed=22.95$   $V_c,Rd,Red=5854.62$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=309.83 Vc,Rd,Red=11709.20 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6539.97 T<sub>z</sub>=179.51 M<sub>y</sub>=106.63 T<sub>y</sub>=11.33 M<sub>z</sub>=-2.80 M<sub>x</sub>=-9.46  
Tensioni:  $\sigma_N$ =-475.29  $\sigma_M$ =-260.60  $\tau$ =18.21  $\sigma_{max}$ =-735.89  
Tensioni:  $\sigma_N$ =-475.29  $\sigma_M$ =8.58  $\tau$ =41.48  $\tau_{max}$ =41.48  
Tensioni:  $\sigma_N$ =-475.29  $\sigma_M$ =-260.60  $\tau$ =18.21  $\sigma_{ID,max}$ =736.57

Asta n. 4360 (-16512 -16446) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8813.12 M<sub>y</sub>,Ed=98.31 M<sub>z</sub>,Ed=-0.71  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.29+0.08+0.00=0.37  
Verifica ZZ: 0.29+0.06+0.00=0.35

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-8732.16 T<sub>z</sub>=290.96 M<sub>y</sub>=82.94 T<sub>y</sub>=6.12 M<sub>z</sub>=-1.30 M<sub>x</sub>=-5.99  
Tensioni:  $\sigma_N$ =-634.61  $\sigma_M$ =-199.60  $\tau$ =11.53  $\sigma_{max}$ =-834.21  
Tensioni:  $\sigma_N$ =-634.61  $\sigma_M$ =3.99  $\tau$ =49.25  $\tau_{max}$ =49.25  
Tensioni:  $\sigma_N$ =-634.61  $\sigma_M$ =-199.60  $\tau$ =11.53  $\sigma_{ID,max}$ =834.45

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.05  
Sollecitazioni: N=-8732.21 T<sub>z</sub>=287.78 M<sub>y</sub>=67.51 T<sub>y</sub>=6.12 M<sub>x</sub>=-5.99  
V,Ed=6.12 Vc,Rd,Red=5874.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=287.78 Vc,Rd,Red=11748.00 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6482.46 T<sub>z</sub>=168.77 M<sub>y</sub>=88.06 T<sub>y</sub>=3.03 M<sub>z</sub>=-1.98 M<sub>x</sub>=-8.93  
Tensioni:  $\sigma_N$ =-471.11  $\sigma_M$ =-214.06  $\tau$ =17.18  $\sigma_{max}$ =-685.17  
Tensioni:  $\sigma_N$ =-471.11  $\sigma_M$ =6.08  $\tau$ =39.05  $\tau_{max}$ =39.05  
Tensioni:  $\sigma_N$ =-471.11  $\sigma_M$ =-214.06  $\tau$ =17.18  $\sigma_{ID,max}$ =685.82

Asta n. 4360 (-16446 -16380) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8710.29 M<sub>y</sub>,Ed=66.86 M<sub>z</sub>,Ed=-0.26  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda^*_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda^*_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.28+0.05+0.00=0.34  
Verifica ZZ: 0.28+0.04+0.00=0.33

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7648.89 T<sub>z</sub>=232.17 M<sub>y</sub>=28.65 M<sub>z</sub>=-1.76 M<sub>x</sub>=-4.28  
Tensioni:  $\sigma_N$ =-555.88  $\sigma_M$ =-73.58  $\tau$ =8.23  $\sigma_{max}$ =-629.46  
Tensioni:  $\sigma_N$ =-555.88  $\sigma_M$ =5.40  $\tau$ =38.33  $\tau_{max}$ =38.33  
Tensioni:  $\sigma_N$ =-555.88  $\sigma_M$ =-73.58  $\tau$ =8.23  $\sigma_{ID,max}$ =629.63

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
Sollecitazioni: N=-8622.53 T<sub>z</sub>=260.19 M<sub>y</sub>=49.36 T<sub>y</sub>=3.68 M<sub>x</sub>=-2.39  
V,Ed=3.68 Vc,Rd,Red=5905.81 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=260.19 Vc,Rd,Red=11811.60 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-6446.70 T<sub>z</sub>=157.64 M<sub>y</sub>=70.96 T<sub>y</sub>=3.36 M<sub>z</sub>=-2.02 M<sub>x</sub>=-8.00  
Tensioni:  $\sigma_N$ =-468.51  $\sigma_M$ =-173.98  $\tau$ =15.39  $\sigma_{max}$ =-642.49  
Tensioni:  $\sigma_N$ =-468.51  $\sigma_M$ =6.20  $\tau$ =35.82  $\tau_{max}$ =35.82



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Tensioni:  $\sigma_N=-468.51$   $\sigma_M=-173.98$   $\tau=15.39$   $\sigma_{ID,max}=643.04$

Asta n. 4360 (-16380 -16314) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-8626.15$   $M_y, Ed=38.57$   $M_z, Ed=0.22$   
 Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.28+0.03+0.00=0.31$   
 Verifica ZZ:  $0.28+0.02+0.00=0.31$
  - Verifica a compressione [4.2.9] - CC 49 SLU  $X_l=0.09$  - Classe 1  
 Sollecitazioni:  $N=-8522.66$   $T_x=215.91$   $T_y=4.82$   $M_x=2.20$   
 $N, Ed=-8522.66$   $N_c, Rd=-30796.20$   $N, Ed/N_c, Rd=0.28$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-8522.57$   $T_x=221.21$   $M_y=19.60$   $T_y=4.82$   $M_x=2.20$   
 $V, Ed=4.82$   $V_c, Rd, Red=5907.52$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=221.21$   $V_c, Rd, Red=11815.00$   $V, Ed/V_c, Rd, Red=0.02$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6417.46$   $T_x=143.28$   $M_y=-60.20$   $T_y=2.81$   $M_z=-2.12$   $M_x=7.26$   
 Tensioni:  $\sigma_N=-466.38$   $\sigma_M=-149.04$   $\tau=13.97$   $\sigma_{max}=-615.43$   
 Tensioni:  $\sigma_N=-466.38$   $\sigma_M=-6.50$   $\tau=32.54$   $\tau_{max}=32.54$   
 Tensioni:  $\sigma_N=-466.38$   $\sigma_M=-149.04$   $\tau=13.97$   $\sigma_{ID,max}=615.90$

Asta n. 4360 (-16314 -16248) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-8434.03$   $M_y, Ed=-22.70$   $M_z, Ed=-0.58$   
 Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.02+0.00=0.29$   
 Verifica ZZ:  $0.27+0.01+0.00=0.29$
  - Verifica a compressione [4.2.9] - CC 45 SLU  $X_l=0.08$  - Classe 1  
 Sollecitazioni:  $N=-8560.39$   $T_x=176.62$   $T_y=5.01$   $M_x=7.54$   
 $N, Ed=-8560.39$   $N_c, Rd=-30796.20$   $N, Ed/N_c, Rd=0.28$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-8560.31$   $T_x=181.39$   $M_y=14.10$   $T_y=5.01$   $M_x=7.54$   
 $V, Ed=5.01$   $V_c, Rd, Red=5860.34$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=181.39$   $V_c, Rd, Red=11720.70$   $V, Ed/V_c, Rd, Red=0.02$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6393.42$   $T_x=128.65$   $M_y=-58.82$   $T_y=2.95$   $M_z=-2.06$   $M_x=8.72$   
 Tensioni:  $\sigma_N=-464.64$   $\sigma_M=-145.59$   $\tau=16.78$   $\sigma_{max}=-610.23$   
 Tensioni:  $\sigma_N=-464.64$   $\sigma_M=-6.33$   $\tau=33.45$   $\tau_{max}=33.45$   
 Tensioni:  $\sigma_N=-464.64$   $\sigma_M=-145.59$   $\tau=16.78$   $\sigma_{ID,max}=610.92$

Asta n. 4360 (-16248 -16182) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-8361.69$   $M_y, Ed=-39.02$   $M_z, Ed=0.63$   
 Resistenze:  $N_c, Rd=30796.20$   $M_y, c, Rd=951.93$   $M_z, c, Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.03+0.00=0.30$

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Verifica ZZ:  $0.27+0.03+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8517.47$   $T_2=144.95$   $M_y=-20.72$   $T_y=6.43$   $M_z=1.07$   $M_x=11.17$   
 Tensioni:  $\sigma_N=-619.00$   $\sigma_M=-52.52$   $\tau=21.48$   $\sigma_{max}=-671.52$   
 Tensioni:  $\sigma_N=-619.00$   $\sigma_M=3.30$   $\tau=40.27$   $\tau_{max}=40.27$   
 Tensioni:  $\sigma_N=-619.00$   $\sigma_M=-52.52$   $\tau=21.48$   $\sigma_{ID,max}=672.55$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-8517.38$   $T_2=150.77$   $M_y=-6.27$   $T_y=6.43$   $M_x=11.17$   
 $V,Ed=6.43$   $Vc,Rd,Red=5828.36$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=150.77$   $Vc,Rd,Red=11656.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6376.75$   $T_2=117.10$   $M_y=-55.59$   $T_y=4.89$   $M_z=-1.84$   $M_x=10.16$   
 Tensioni:  $\sigma_N=-463.43$   $\sigma_M=-137.20$   $\tau=19.55$   $\sigma_{max}=-600.63$   
 Tensioni:  $\sigma_N=-463.43$   $\sigma_M=-5.65$   $\tau=34.73$   $\tau_{max}=34.73$   
 Tensioni:  $\sigma_N=-463.43$   $\sigma_M=-137.20$   $\tau=19.55$   $\sigma_{ID,max}=601.58$

Asta n. 4360 (-16182 -16116) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8316.85$   $M_y,Ed=-51.22$   $M_z,Ed=1.01$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.04+0.00=0.31$   
 Verifica ZZ:  $0.27+0.03+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8316.85$   $T_2=101.63$   $M_y=-51.22$   $T_y=5.49$   $M_z=1.01$   $M_x=15.25$   
 Tensioni:  $\sigma_N=-604.42$   $\sigma_M=-124.01$   $\tau=29.35$   $\sigma_{max}=-728.43$   
 Tensioni:  $\sigma_N=-604.42$   $\sigma_M=3.11$   $\tau=42.52$   $\tau_{max}=42.52$   
 Tensioni:  $\sigma_N=-604.42$   $\sigma_M=-124.01$   $\tau=29.35$   $\sigma_{ID,max}=730.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-8316.76$   $T_2=107.45$   $M_y=-41.00$   $T_y=5.49$   $M_x=15.25$   
 $V,Ed=5.49$   $Vc,Rd,Red=5792.30$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=107.45$   $Vc,Rd,Red=11584.60$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6374.46$   $T_2=107.57$   $M_y=-50.58$   $T_y=4.46$   $M_z=-1.42$   $M_x=11.36$   
 Tensioni:  $\sigma_N=-463.26$   $\sigma_M=-123.95$   $\tau=21.86$   $\sigma_{max}=-587.22$   
 Tensioni:  $\sigma_N=-463.26$   $\sigma_M=-4.36$   $\tau=35.80$   $\tau_{max}=35.80$   
 Tensioni:  $\sigma_N=-463.26$   $\sigma_M=-123.95$   $\tau=21.86$   $\sigma_{ID,max}=588.43$

Asta n. 4360 (-16116 -16050) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8336.42$   $M_y,Ed=-60.70$   $M_z,Ed=1.19$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.27+0.05+0.00=0.32$   
 Verifica ZZ:  $0.27+0.04+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.01$  - Classe 3  
 Sollecitazioni:  $N=-8336.34$   $T_2=85.24$   $M_y=-53.36$   $T_y=-14.26$   $M_z=1.06$   $M_x=17.39$   
 Tensioni:  $\sigma_N=-605.84$   $\sigma_M=-129.21$   $\tau=33.47$   $\sigma_{max}=-735.05$   
 Tensioni:  $\sigma_N=-605.84$   $\sigma_M=3.26$   $\tau=44.52$   $\tau_{max}=44.52$   
 Tensioni:  $\sigma_N=-605.84$   $\sigma_M=-129.21$   $\tau=33.47$   $\sigma_{ID,max}=737.33$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.03$   
 Sollecitazioni:  $N=-8574.42$   $T_z=103.10$   $M_y=-39.19$   $T_y=-22.09$   $M_x=15.77$   
 $V,Ed=-22.09$   $V_c,Rd,Red=5787.75$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=103.10$   $V_c,Rd,Red=11575.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6411.43$   $T_z=102.13$   $M_y=-44.22$   $T_y=-11.49$   $M_z=1.14$   $M_x=12.12$   
 Tensioni:  $\sigma_N=-465.95$   $\sigma_M=-108.01$   $\tau=23.32$   $\sigma_{max}=-573.96$   
 Tensioni:  $\sigma_N=-465.95$   $\sigma_M=3.50$   $\tau=36.56$   $\tau_{max}=36.56$   
 Tensioni:  $\sigma_N=-465.95$   $\sigma_M=-108.01$   $\tau=23.32$   $\sigma_{ID,max}=575.38$

Asta n. 4360 (-16050 -15984) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-8758.09$   $M_y,Ed=-56.86$   $M_z,Ed=-15.75$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55408000.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18404200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.28+0.05+0.02=0.35$   
 Verifica ZZ:  $0.28+0.04+0.02=0.34$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-8467.72$   $T_z=70.00$   $M_y=-68.97$   $T_y=-138.81$   $M_z=-13.71$   $M_x=18.01$   
 Tensioni:  $\sigma_N=-615.39$   $\sigma_M=-210.68$   $\tau=34.66$   $\sigma_{max}=-826.07$   
 Tensioni:  $\sigma_N=-615.39$   $\sigma_M=-151.35$   $\tau=67.71$   $\tau_{max}=67.71$   
 Tensioni:  $\sigma_N=-615.39$   $\sigma_M=-210.68$   $\tau=34.66$   $\sigma_{ID,max}=828.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-8758.00$   $T_z=94.23$   $M_y=-47.93$   $T_y=-157.58$   $M_x=16.33$   
 $V,Ed=-157.58$   $V_c,Rd,Red=5782.77$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=94.23$   $V_c,Rd,Red=11565.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-6525.22$   $T_z=92.22$   $M_y=-34.79$   $T_y=-115.61$   $M_z=-12.94$   $M_x=12.39$   
 Tensioni:  $\sigma_N=-474.22$   $\sigma_M=-127.58$   $\tau=23.85$   $\sigma_{max}=-601.80$   
 Tensioni:  $\sigma_N=-474.22$   $\sigma_M=-76.33$   $\tau=51.38$   $\tau_{max}=51.38$   
 Tensioni:  $\sigma_N=-474.22$   $\sigma_M=-127.58$   $\tau=23.85$   $\sigma_{ID,max}=603.22$

Asta n. 4360 (-15984 -15918) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7975.14$   $M_y,Ed=-59.45$   $M_z,Ed=-13.90$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.78$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55308600.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18371200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.26+0.05+0.02=0.33$   
 Verifica ZZ:  $0.26+0.04+0.02=0.32$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7686.21$   $T_z=121.73$   $M_y=-60.58$   $T_y=145.61$   $M_z=-13.09$   $M_x=7.76$   
 Tensioni:  $\sigma_N=-558.59$   $\sigma_M=-188.75$   $\tau=14.94$   $\sigma_{max}=-747.35$   
 Tensioni:  $\sigma_N=-558.59$   $\sigma_M=132.93$   $\tau=49.62$   $\tau_{max}=49.62$   
 Tensioni:  $\sigma_N=-558.59$   $\sigma_M=-188.75$   $\tau=14.94$   $\sigma_{ID,max}=747.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.09$   
 Sollecitazioni:  $N=-7975.13$   $T_z=101.12$   $M_y=-58.55$   $T_y=154.07$   $M_x=11.07$   
 $V,Ed=154.07$   $V_c,Rd,Red=5829.20$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=101.12$   $V_c,Rd,Red=11658.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

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Sollecitazioni:  $N=-6096.70$   $T_x=69.65$   $M_y=-31.60$   $T_y=109.94$   $M_z=-11.50$   $M_x=15.75$

Tensioni:  $\sigma_N=-443.07$   $\sigma_M=-115.00$   $\tau=30.31$   $\sigma_{max}=-558.07$

Tensioni:  $\sigma_N=-443.07$   $\sigma_M=69.33$   $\tau=56.48$   $\tau_{max}=56.48$

Tensioni:  $\sigma_N=-443.07$   $\sigma_M=-115.00$   $\tau=30.31$   $\sigma_{ID,max}=560.53$

Asta n. 4360 (-15918 -15851) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni:  $N,Ed=-7533.25$   $M_y,Ed=-85.37$   $M_z,Ed=2.40$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_{y'}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_{z'}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.24+0.07+0.00=0.32$

Verifica ZZ:  $0.24+0.05+0.00=0.30$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-7533.25$   $T_x=107.23$   $M_y=-85.37$   $T_y=18.76$   $M_z=2.40$   $M_x=8.24$

Tensioni:  $\sigma_N=-547.47$   $\sigma_M=-209.21$   $\tau=15.86$   $\sigma_{max}=-756.68$

Tensioni:  $\sigma_N=-547.47$   $\sigma_M=7.37$   $\tau=29.76$   $\tau_{max}=29.76$

Tensioni:  $\sigma_N=-547.47$   $\sigma_M=-209.21$   $\tau=15.86$   $\sigma_{ID,max}=757.18$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.00$

Sollecitazioni:  $N=-7533.15$   $T_x=113.05$   $M_y=-74.60$   $T_y=18.76$   $M_x=8.24$

$V,Ed=18.76$   $V_c,Rd,Red=5854.17$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=113.05$   $V_c,Rd,Red=11708.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-6007.61$   $T_x=59.25$   $M_y=-43.14$   $T_y=9.18$   $M_z=1.30$   $M_x=15.97$

Tensioni:  $\sigma_N=-436.60$   $\sigma_M=-106.03$   $\tau=30.74$   $\sigma_{max}=-542.63$

Tensioni:  $\sigma_N=-436.60$   $\sigma_M=3.98$   $\tau=38.42$   $\tau_{max}=38.42$

Tensioni:  $\sigma_N=-436.60$   $\sigma_M=-106.03$   $\tau=30.74$   $\sigma_{ID,max}=545.24$

Asta n. 4360 (-15851 -15785) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

Sollecitazioni:  $N,Ed=-7445.91$   $M_y,Ed=-96.27$   $M_z,Ed=1.80$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_{y'}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_{z'}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.24+0.08+0.00=0.32$

Verifica ZZ:  $0.24+0.06+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-7445.91$   $T_x=85.90$   $M_y=-96.27$   $T_y=-1.26$   $M_z=1.68$   $M_x=10.22$

Tensioni:  $\sigma_N=-541.13$   $\sigma_M=-232.29$   $\tau=19.67$   $\sigma_{max}=-773.41$

Tensioni:  $\sigma_N=-541.13$   $\sigma_M=5.15$   $\tau=30.81$   $\tau_{max}=30.81$

Tensioni:  $\sigma_N=-541.13$   $\sigma_M=-232.29$   $\tau=19.67$   $\sigma_{ID,max}=774.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.04$

Sollecitazioni:  $N=-5489.28$   $T_x=82.51$   $M_y=-89.60$   $T_y=-1.86$   $M_x=5.04$

$V,Ed=-1.86$   $V_c,Rd,Red=5882.39$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=82.51$   $V_c,Rd,Red=11764.80$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5969.37$   $T_x=47.89$   $M_y=-48.54$   $T_y=-3.65$   $M_z=1.54$   $M_x=16.51$

Tensioni:  $\sigma_N=-433.82$   $\sigma_M=-119.56$   $\tau=31.78$   $\sigma_{max}=-553.38$

Tensioni:  $\sigma_N=-433.82$   $\sigma_M=4.72$   $\tau=37.99$   $\tau_{max}=37.99$

Tensioni:  $\sigma_N=-433.82$   $\sigma_M=-119.56$   $\tau=31.78$   $\sigma_{ID,max}=556.11$

Asta n. 4360 (-15785 -15719) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3

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Sollecitazioni: N,Ed=-7397.80 My,Ed=-103.44 Mz,Ed=1.47  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.08+0.00=0.33  
Verifica ZZ: 0.24+0.07+0.00=0.31

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-7397.80 Tz=53.71 My=-103.44 Ty=-2.66 Mz=1.21 Mx=13.63  
Tensioni:  $\sigma_N=-537.63$   $\sigma_M=-247.48$   $\tau=26.22$   $\sigma_{max}=-785.11$   
Tensioni:  $\sigma_N=-537.63$   $\sigma_M=3.71$   $\tau=33.19$   $\tau_{max}=33.19$   
Tensioni:  $\sigma_N=-537.63$   $\sigma_M=-247.48$   $\tau=26.22$   $\sigma_{ID,max}=786.42$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-5446.10 Tz=53.53 My=-95.45 Ty=-1.84 Mz=8.43  
V,Ed=-1.84 Vc,Rd,Red=5852.48 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=53.53 Vc,Rd,Red=11705.00 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5955.25 Tz=32.38 My=-52.24 Ty=-3.32 Mz=1.68 Mx=17.44  
Tensioni:  $\sigma_N=-432.80$   $\sigma_M=-128.77$   $\tau=33.56$   $\sigma_{max}=-561.57$   
Tensioni:  $\sigma_N=-432.80$   $\sigma_M=5.15$   $\tau=37.76$   $\tau_{max}=37.76$   
Tensioni:  $\sigma_N=-432.80$   $\sigma_M=-128.77$   $\tau=33.56$   $\sigma_{ID,max}=564.57$

Asta n. 4360 (-15719 -15653) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7365.80 My,Ed=-105.98 Mz,Ed=1.06  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.09+0.00=0.33  
Verifica ZZ: 0.24+0.07+0.00=0.31
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-7365.79 Tz=16.07 My=-105.71 Mz=1.00 Mx=17.95  
Tensioni:  $\sigma_N=-535.30$   $\sigma_M=-252.07$   $\tau=34.54$   $\sigma_{max}=-787.38$   
Tensioni:  $\sigma_N=-535.30$   $\sigma_M=3.54$   $\tau=36.62$   $\tau_{max}=36.62$   
Tensioni:  $\sigma_N=-535.30$   $\sigma_M=-252.07$   $\tau=34.54$   $\sigma_{ID,max}=789.65$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU Xl=0.09  
Sollecitazioni: N=-7365.80 Tz=15.54 My=-105.85 Mz=17.95  
V,Ed=15.54 Vc,Rd,Red=11537.00 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5947.87 Tz=14.87 My=-53.76 Ty=-1.20 Mz=1.73 Mx=18.68  
Tensioni:  $\sigma_N=-432.26$   $\sigma_M=-132.53$   $\tau=35.94$   $\sigma_{max}=-564.79$   
Tensioni:  $\sigma_N=-432.26$   $\sigma_M=5.31$   $\tau=37.87$   $\tau_{max}=37.87$   
Tensioni:  $\sigma_N=-432.26$   $\sigma_M=-132.53$   $\tau=35.94$   $\sigma_{ID,max}=568.21$

Asta n. 4360 (-15653 -15587) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni: N,Ed=-7346.42 My,Ed=-105.85 Mz,Ed=1.06  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.24+0.09+0.00=0.33  
Verifica ZZ: 0.24+0.07+0.00=0.31
- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.06 - Classe 3  
Sollecitazioni: N=-7346.39 Tz=-22.16 My=-104.59 Ty=1.65 Mz=1.01 Mx=22.57

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Tensioni:  $\sigma_N=-533.89$   $\sigma_M=-249.46$   $\tau=43.42$   $\sigma_{max}=-783.35$   
 Tensioni:  $\sigma_N=-533.89$   $\sigma_M=-3.08$   $\tau=46.29$   $\tau_{max}=46.29$   
 Tensioni:  $\sigma_N=-533.89$   $\sigma_M=-249.46$   $\tau=43.42$   $\sigma_{ID,max}=786.96$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4282.69$   $T_z=-34.10$   $M_y=-101.71$   $T_y=1.16$   $M_x=22.98$   
 $V,Ed=1.16$   $V_c,Rd,Red=5724.09$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-34.10$   $V_c,Rd,Red=11448.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5944.07$   $T_z=-19.15$   $M_y=-53.75$   $T_y=1.19$   $M_z=1.70$   $M_x=20.08$   
 Tensioni:  $\sigma_N=-431.98$   $\sigma_M=-132.38$   $\tau=38.64$   $\sigma_{max}=-564.36$   
 Tensioni:  $\sigma_N=-431.98$   $\sigma_M=-5.21$   $\tau=41.13$   $\tau_{max}=41.13$   
 Tensioni:  $\sigma_N=-431.98$   $\sigma_M=-132.38$   $\tau=38.64$   $\sigma_{ID,max}=568.32$

Asta n. 4360 (-15587 -15521) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7341.47$   $M_y,Ed=-102.71$   $M_z,Ed=1.38$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.08+0.00=0.32$   
 Verifica ZZ:  $0.24+0.07+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7341.38$   $T_z=-56.63$   $M_y=-102.71$   $T_y=3.52$   $M_z=1.04$   $M_x=26.83$   
 Tensioni:  $\sigma_N=-533.53$   $\sigma_M=-245.14$   $\tau=51.62$   $\sigma_{max}=-778.67$   
 Tensioni:  $\sigma_N=-533.53$   $\sigma_M=-3.18$   $\tau=58.97$   $\tau_{max}=58.97$   
 Tensioni:  $\sigma_N=-533.53$   $\sigma_M=-245.14$   $\tau=51.62$   $\sigma_{ID,max}=783.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4272.05$   $T_z=-72.20$   $M_y=-93.69$   $T_y=2.80$   $M_x=27.21$   
 $V,Ed=2.80$   $V_c,Rd,Red=5686.72$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-72.20$   $V_c,Rd,Red=11373.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5945.03$   $T_z=-33.89$   $M_y=-52.61$   $T_y=3.32$   $M_z=1.68$   $M_x=21.47$   
 Tensioni:  $\sigma_N=-432.05$   $\sigma_M=-129.65$   $\tau=41.31$   $\sigma_{max}=-561.70$   
 Tensioni:  $\sigma_N=-432.05$   $\sigma_M=-5.16$   $\tau=45.71$   $\tau_{max}=45.71$   
 Tensioni:  $\sigma_N=-432.05$   $\sigma_M=-129.65$   $\tau=41.31$   $\sigma_{ID,max}=566.24$

Asta n. 4360 (-15521 -15455) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7710.81$   $M_y,Ed=-81.48$   $M_z,Ed=1.73$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.25+0.07+0.00=0.32$   
 Verifica ZZ:  $0.25+0.05+0.00=0.31$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7357.68$   $T_z=-87.40$   $M_y=-95.02$   $T_y=1.71$   $M_z=1.38$   $M_x=30.12$   
 Tensioni:  $\sigma_N=-534.72$   $\sigma_M=-228.28$   $\tau=57.95$   $\sigma_{max}=-762.99$   
 Tensioni:  $\sigma_N=-534.72$   $\sigma_M=-4.22$   $\tau=69.28$   $\tau_{max}=69.28$   
 Tensioni:  $\sigma_N=-534.72$   $\sigma_M=-228.28$   $\tau=57.95$   $\sigma_{ID,max}=769.57$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4266.19$   $T_z=-102.61$   $M_y=-81.89$   $T_y=3.41$   $M_x=30.47$   
 $V,Ed=3.41$   $V_c,Rd,Red=5658.02$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-102.61 Vc,Rd,Red=11316.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5955.57 T<sub>z</sub>=-48.62 M<sub>y</sub>=-49.31 T<sub>y</sub>=3.56 M<sub>z</sub>=1.58 M<sub>x</sub>=22.58  
Tensioni:  $\sigma_N$ =-432.82  $\sigma_M$ =-121.53  $\tau$ =43.45  $\sigma_{max}$ =-554.35  
Tensioni:  $\sigma_N$ =-432.82  $\sigma_M$ =-4.85  $\tau$ =49.75  $\tau_{max}$ =49.75  
Tensioni:  $\sigma_N$ =-432.82  $\sigma_M$ =-121.53  $\tau$ =43.45  $\sigma_{ID,max}$ =559.43

Asta n. 4360 (-15455 -15389) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-7816.76 My,Ed=-72.86 Mz,Ed=2.10  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.25+0.06+0.00=0.32  
Verifica ZZ: 0.25+0.05+0.00=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-7816.67 T<sub>z</sub>=-84.10 M<sub>y</sub>=-72.86 T<sub>y</sub>=-25.13 M<sub>z</sub>=2.10 M<sub>x</sub>=29.96  
Tensioni:  $\sigma_N$ =-568.07  $\sigma_M$ =-178.73  $\tau$ =57.64  $\sigma_{max}$ =-746.80  
Tensioni:  $\sigma_N$ =-568.07  $\sigma_M$ =-6.45  $\tau$ =68.55  $\tau_{max}$ =68.55  
Tensioni:  $\sigma_N$ =-568.07  $\sigma_M$ =-177.74  $\tau$ =62.62  $\sigma_{ID,max}$ =753.66

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
Sollecitazioni: N=-4282.89 T<sub>z</sub>=-125.16 M<sub>y</sub>=-67.29 T<sub>y</sub>=-5.42 M<sub>x</sub>=32.30  
V,Ed=-5.42 Vc,Rd,Red=5641.79 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-125.16 Vc,Rd,Red=11283.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5998.52 T<sub>z</sub>=-59.89 M<sub>y</sub>=-44.37 T<sub>y</sub>=-10.55 M<sub>z</sub>=1.41 M<sub>x</sub>=23.21  
Tensioni:  $\sigma_N$ =-435.94  $\sigma_M$ =-109.31  $\tau$ =44.67  $\sigma_{max}$ =-545.25  
Tensioni:  $\sigma_N$ =-435.94  $\sigma_M$ =-4.32  $\tau$ =52.43  $\tau_{max}$ =52.43  
Tensioni:  $\sigma_N$ =-435.94  $\sigma_M$ =-109.31  $\tau$ =44.67  $\sigma_{ID,max}$ =550.71

Asta n. 4360 (-15389 -15323) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-8028.04 My,Ed=-62.31 Mz,Ed=-15.23  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.26+0.05+0.02=0.33  
Verifica ZZ: 0.26+0.04+0.02=0.32

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-8028.04 T<sub>z</sub>=-92.68 M<sub>y</sub>=-53.54 T<sub>y</sub>=-155.96 M<sub>z</sub>=-15.23 M<sub>x</sub>=30.03  
Tensioni:  $\sigma_N$ =-583.43  $\sigma_M$ =-179.77  $\tau$ =57.78  $\sigma_{max}$ =-763.21  
Tensioni:  $\sigma_N$ =-583.43  $\sigma_M$ =-117.48  $\tau$ =94.92  $\tau_{max}$ =94.92  
Tensioni:  $\sigma_N$ =-583.43  $\sigma_M$ =-172.59  $\tau$ =88.69  $\sigma_{ID,max}$ =771.47

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=-8027.94 T<sub>z</sub>=-86.86 M<sub>y</sub>=-62.31 T<sub>y</sub>=-155.96 M<sub>x</sub>=30.03  
V,Ed=-155.96 Vc,Rd,Red=5661.87 V,Ed/Vc,Rd,Red=0.03

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-86.86 Vc,Rd,Red=11323.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-6110.25 T<sub>z</sub>=-67.45 M<sub>y</sub>=-33.70 T<sub>y</sub>=-108.17 M<sub>z</sub>=-11.96 M<sub>x</sub>=23.19  
Tensioni:  $\sigma_N$ =-444.06  $\sigma_M$ =-121.56  $\tau$ =44.63  $\sigma_{max}$ =-565.62  
Tensioni:  $\sigma_N$ =-444.06  $\sigma_M$ =-73.94  $\tau$ =70.38  $\tau_{max}$ =70.38  
Tensioni:  $\sigma_N$ =-444.06  $\sigma_M$ =-115.91  $\tau$ =66.07  $\sigma_{ID,max}$ =571.55

Asta n. 4360 (-15323 -15257) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7356.63 My,Ed=-52.37 Mz,Ed=-10.86  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.24+0.04+0.02=0.30

Verifica ZZ: 0.24+0.03+0.02=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-7356.53 Tz=93.28 My=-43.54 Ty=129.38 Mz=-10.86 Mx=2.55

Tensioni:  $\sigma_N=-534.63$   $\sigma_M=-140.82$   $\tau=4.90$   $\sigma_{max}=-675.45$

Tensioni:  $\sigma_N=-534.63$   $\sigma_M=95.54$   $\tau=35.72$   $\tau_{max}=35.72$

Tensioni:  $\sigma_N=-534.63$   $\sigma_M=-140.82$   $\tau=4.90$   $\sigma_{ID,max}=675.50$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08

Sollecitazioni: N=-7356.61 Tz=88.51 My=-50.81 Ty=129.38 Mx=2.55

V,Ed=129.38 Vc,Rd,Red=5904.41 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=88.51 Vc,Rd,Red=11808.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-5710.49 Tz=66.75 My=-29.24 Ty=96.53 Mz=-9.89 Mx=-11.81

Tensioni:  $\sigma_N=-415.01$   $\sigma_M=-103.76$   $\tau=22.72$   $\sigma_{max}=-518.76$

Tensioni:  $\sigma_N=-415.01$   $\sigma_M=-64.16$   $\tau=45.71$   $\tau_{max}=45.71$

Tensioni:  $\sigma_N=-415.01$   $\sigma_M=-103.76$   $\tau=22.72$   $\sigma_{ID,max}=520.25$

Asta n. 4360 (-15257 -15190) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7253.45 My,Ed=-62.75 Mz,Ed=2.73

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.24+0.05+0.00=0.29

Verifica ZZ: 0.24+0.04+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-7253.45 Tz=83.94 My=-62.75 Ty=13.74 Mz=2.73 Mx=2.65

Tensioni:  $\sigma_N=-527.14$   $\sigma_M=-157.21$   $\tau=5.10$   $\sigma_{max}=-684.35$

Tensioni:  $\sigma_N=-527.14$   $\sigma_M=8.38$   $\tau=15.99$   $\tau_{max}=15.99$

Tensioni:  $\sigma_N=-527.14$   $\sigma_M=-157.21$   $\tau=5.10$   $\sigma_{ID,max}=684.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.08

Sollecitazioni: N=-5295.16 Tz=69.17 My=-56.45 Ty=6.95 Mx=-2.61

V,Ed=6.95 Vc,Rd,Red=5903.85 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=69.17 Vc,Rd,Red=11807.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-5645.63 Tz=59.40 My=-40.69 Ty=5.59 Mz=1.35 Mx=-11.76

Tensioni:  $\sigma_N=-410.29$   $\sigma_M=-100.42$   $\tau=22.63$   $\sigma_{max}=-510.71$

Tensioni:  $\sigma_N=-410.29$   $\sigma_M=-4.13$   $\tau=30.33$   $\tau_{max}=30.33$

Tensioni:  $\sigma_N=-410.29$   $\sigma_M=-100.42$   $\tau=22.63$   $\sigma_{ID,max}=512.21$

Asta n. 4360 (-15190 -15122) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-7212.95 My,Ed=-71.29 Mz,Ed=2.30

Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$



$\lambda_z=3.94$  Ncr, z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.06+0.00=0.30  
 Verifica ZZ: 0.23+0.05+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7212.95 T<sub>z</sub>=66.23 M<sub>y</sub>=-71.29 T<sub>y</sub>=-3.67 M<sub>z</sub>=1.95 M<sub>x</sub>=4.07  
 Tensioni:  $\sigma_N=-524.20$   $\sigma_M=-174.49$   $\tau=7.83$   $\sigma_{max}=-698.68$   
 Tensioni:  $\sigma_N=-524.20$   $\sigma_M=5.97$   $\tau=16.42$   $\tau_{max}=16.42$   
 Tensioni:  $\sigma_N=-524.20$   $\sigma_M=-174.49$   $\tau=7.83$   $\sigma_{ID,max}=698.82$

- Verifica a taglio dir. Y [4.2.16] - CC 37 SLU Xl=0.04  
 Sollecitazioni: N=-3986.66 T<sub>z</sub>=84.56 M<sub>y</sub>=-71.32 T<sub>y</sub>=-5.29  
 V,Ed=-5.29 Vc,Rd=5926.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=84.56 Vc,Rd=11853.80 V,Ed/Vc,Rd=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5624.46 T<sub>z</sub>=46.90 M<sub>y</sub>=-46.16 T<sub>y</sub>=-4.91 M<sub>z</sub>=1.56 M<sub>x</sub>=-11.28  
 Tensioni:  $\sigma_N=-408.75$   $\sigma_M=-114.03$   $\tau=21.71$   $\sigma_{max}=-522.79$   
 Tensioni:  $\sigma_N=-408.75$   $\sigma_M=-4.78$   $\tau=27.79$   $\tau_{max}=27.79$   
 Tensioni:  $\sigma_N=-408.75$   $\sigma_M=-114.03$   $\tau=21.71$   $\sigma_{ID,max}=524.14$

Asta n. 4360 (-15122 -15056) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7209.19 My,Ed=-76.77 Mz,Ed=1.86  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.06+0.00=0.30  
 Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7209.19 T<sub>z</sub>=40.05 M<sub>y</sub>=-76.77 T<sub>y</sub>=-4.23 M<sub>z</sub>=1.44 M<sub>x</sub>=6.70  
 Tensioni:  $\sigma_N=-523.92$   $\sigma_M=-185.61$   $\tau=12.89$   $\sigma_{max}=-709.53$   
 Tensioni:  $\sigma_N=-523.92$   $\sigma_M=4.43$   $\tau=18.08$   $\tau_{max}=18.08$   
 Tensioni:  $\sigma_N=-523.92$   $\sigma_M=-185.61$   $\tau=12.89$   $\sigma_{ID,max}=709.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-4000.58 T<sub>z</sub>=55.51 M<sub>y</sub>=-78.05 T<sub>y</sub>=-3.34 M<sub>z</sub>=3.87  
 V,Ed=-3.34 Vc,Rd,Red=5892.79 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=55.51 Vc,Rd,Red=11785.60 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5620.44 T<sub>z</sub>=30.83 M<sub>y</sub>=-49.88 T<sub>y</sub>=-3.54 M<sub>z</sub>=1.68 M<sub>x</sub>=12.00  
 Tensioni:  $\sigma_N=-408.46$   $\sigma_M=-123.21$   $\tau=23.08$   $\sigma_{max}=-531.67$   
 Tensioni:  $\sigma_N=-408.46$   $\sigma_M=5.15$   $\tau=27.08$   $\tau_{max}=27.08$   
 Tensioni:  $\sigma_N=-408.46$   $\sigma_M=-123.21$   $\tau=23.08$   $\sigma_{ID,max}=533.17$

Asta n. 4360 (-15056 -14990) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7217.67 My,Ed=-78.71 Mz,Ed=1.39  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.06+0.00=0.30  
 Verifica ZZ: 0.23+0.05+0.00=0.29

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7217.67 T<sub>z</sub>=10.42 M<sub>y</sub>=-78.71 T<sub>y</sub>=-1.55 M<sub>z</sub>=1.24 M<sub>x</sub>=10.04  
 Tensioni:  $\sigma_N=-524.54$   $\sigma_M=-189.43$   $\tau=19.32$   $\sigma_{max}=-713.97$

Tensioni:  $\sigma_N=-524.54$   $\sigma_M=3.79$   $\tau=20.67$   $\tau_{max}=20.67$   
 Tensioni:  $\sigma_N=-524.54$   $\sigma_M=-189.43$   $\tau=19.32$   $\sigma_{ID,max}=714.75$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4010.08$   $T_z=18.18$   $M_y=-83.98$   $M_x=8.15$   
 $V,Ed=18.18$   $Vc,Rd,Red=11709.90$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5617.17$   $T_z=13.34$   $M_y=-51.41$   $M_z=1.72$   $M_x=13.31$   
 Tensioni:  $\sigma_N=-408.22$   $\sigma_M=-126.96$   $\tau=25.61$   $\sigma_{max}=-535.18$   
 Tensioni:  $\sigma_N=-408.22$   $\sigma_M=6.08$   $\tau=27.34$   $\tau_{max}=27.34$   
 Tensioni:  $\sigma_N=-408.22$   $\sigma_M=-126.96$   $\tau=25.61$   $\sigma_{ID,max}=537.02$

Asta n. 4360 (-14990 -14924) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7236.55$   $M_y,Ed=-78.59$   $M_z,Ed=1.27$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.23+0.06+0.00=0.30$   
 Verifica ZZ:  $0.23+0.05+0.00=0.29$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7236.46$   $T_z=-17.57$   $M_y=-78.59$   $M_z=1.23$   $M_x=13.69$   
 Tensioni:  $\sigma_N=-525.90$   $\sigma_M=-189.10$   $\tau=26.34$   $\sigma_{max}=-715.01$   
 Tensioni:  $\sigma_N=-525.90$   $\sigma_M=-3.76$   $\tau=28.62$   $\tau_{max}=28.62$   
 Tensioni:  $\sigma_N=-525.90$   $\sigma_M=-189.10$   $\tau=26.34$   $\sigma_{ID,max}=716.46$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-6850.38$   $T_z=-28.15$   $M_y=-88.52$   $M_x=13.39$   
 $V,Ed=-28.15$   $Vc,Rd,Red=11617.40$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5613.27$   $T_z=-14.21$   $M_y=-51.39$   $T_y=1.20$   $M_z=1.74$   $M_x=14.82$   
 Tensioni:  $\sigma_N=-407.94$   $\sigma_M=-126.97$   $\tau=28.52$   $\sigma_{max}=-534.91$   
 Tensioni:  $\sigma_N=-407.94$   $\sigma_M=-5.32$   $\tau=30.36$   $\tau_{max}=30.36$   
 Tensioni:  $\sigma_N=-407.94$   $\sigma_M=-126.97$   $\tau=28.52$   $\sigma_{ID,max}=537.19$

Asta n. 4360 (-14924 -14858) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7268.85$   $M_y,Ed=-75.71$   $M_z,Ed=1.55$   
 Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.06+0.00=0.30$   
 Verifica ZZ:  $0.24+0.05+0.00=0.29$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7268.76$   $T_z=-46.62$   $M_y=-75.71$   $T_y=2.38$   $M_z=1.32$   $M_x=17.02$   
 Tensioni:  $\sigma_N=-528.25$   $\sigma_M=-182.69$   $\tau=32.76$   $\sigma_{max}=-710.94$   
 Tensioni:  $\sigma_N=-528.25$   $\sigma_M=-4.06$   $\tau=38.80$   $\tau_{max}=38.80$   
 Tensioni:  $\sigma_N=-528.25$   $\sigma_M=-182.69$   $\tau=32.76$   $\sigma_{ID,max}=713.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4019.80$   $T_z=-64.57$   $M_y=-75.84$   $T_y=2.63$   $M_x=17.06$   
 $V,Ed=2.63$   $Vc,Rd,Red=5776.37$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-64.57$   $Vc,Rd,Red=11552.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5610.45$   $T_z=-30.07$   $M_y=-50.03$   $T_y=3.51$   $M_z=1.70$   $M_x=16.29$   
 Tensioni:  $\sigma_N=-407.74$   $\sigma_M=-123.64$   $\tau=31.34$   $\sigma_{max}=-531.38$

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Tensioni:  $\sigma_N=-407.74$   $\sigma_M=-5.22$   $\tau=35.24$   $\tau_{max}=35.24$   
 Tensioni:  $\sigma_N=-407.74$   $\sigma_M=-123.64$   $\tau=31.34$   $\sigma_{ID,max}=534.14$

Asta n. 4360 (-14858 -14792) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7322.96 My,Ed=-69.33 Mz,Ed=1.63  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}, \alpha_{Mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.06+0.00=0.30  
 Verifica ZZ: 0.24+0.04+0.00=0.28
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7322.87 Tz=-73.81 My=-69.33 Ty=-1.00 Mz=1.63 Mx=19.65  
 Tensioni:  $\sigma_N=-532.18$   $\sigma_M=-168.80$   $\tau=37.80$   $\sigma_{max}=-700.98$   
 Tensioni:  $\sigma_N=-532.18$   $\sigma_M=-5.01$   $\tau=47.37$   $\tau_{max}=47.37$   
 Tensioni:  $\sigma_N=-532.18$   $\sigma_M=-168.80$   $\tau=37.80$   $\sigma_{ID,max}=704.04$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
 Sollecitazioni: N=-4023.76 Tz=-96.36 My=-64.82 Ty=3.06 Mz=20.39  
 V,Ed=3.06 Vc,Rd,Red=5746.95 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-96.36 Vc,Rd,Red=11493.90 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5613.53 Tz=-46.64 My=-46.48 Ty=3.95 Mz=1.59 Mx=17.48  
 Tensioni:  $\sigma_N=-407.96$   $\sigma_M=-114.93$   $\tau=33.63$   $\sigma_{max}=-522.89$   
 Tensioni:  $\sigma_N=-407.96$   $\sigma_M=-4.89$   $\tau=39.67$   $\tau_{max}=39.67$   
 Tensioni:  $\sigma_N=-407.96$   $\sigma_M=-114.93$   $\tau=33.63$   $\sigma_{ID,max}=526.12$

Asta n. 4360 (-14792 -14726) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7433.69 My,Ed=-59.82 Mz,Ed=1.97  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{My}, \alpha_{Mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.24+0.05+0.00=0.29  
 Verifica ZZ: 0.24+0.04+0.00=0.28
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-7433.60 Tz=-90.11 My=-59.82 Ty=-24.07 Mz=1.97 Mx=21.06  
 Tensioni:  $\sigma_N=-540.23$   $\sigma_M=-147.63$   $\tau=40.53$   $\sigma_{max}=-687.87$   
 Tensioni:  $\sigma_N=-540.23$   $\sigma_M=-6.06$   $\tau=52.21$   $\tau_{max}=52.21$   
 Tensioni:  $\sigma_N=-540.23$   $\sigma_M=-147.63$   $\tau=40.53$   $\sigma_{ID,max}=691.44$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-6979.52 Tz=-117.56 My=-56.63 Ty=-17.74 Mz=22.89  
 V,Ed=-17.74 Vc,Rd,Red=5724.90 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-117.56 Vc,Rd,Red=11449.80 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5644.46 Tz=-58.51 My=-41.08 Ty=-8.02 Mz=1.40 Mx=18.15  
 Tensioni:  $\sigma_N=-410.21$   $\sigma_M=-101.53$   $\tau=34.93$   $\sigma_{max}=-511.74$   
 Tensioni:  $\sigma_N=-410.21$   $\sigma_M=-4.29$   $\tau=42.51$   $\tau_{max}=42.51$   
 Tensioni:  $\sigma_N=-410.21$   $\sigma_M=-101.53$   $\tau=34.93$   $\sigma_{ID,max}=515.30$

Asta n. 4360 (-14726 -14660) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7641.45 My,Ed=-48.60 Mz,Ed=-14.42  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.25+0.04+0.02=0.31

Verifica ZZ: 0.25+0.03+0.02=0.30

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-7641.45 T<sub>z</sub>=-100.57 M<sub>y</sub>=-39.06 T<sub>y</sub>=-147.30 M<sub>z</sub>=-14.42 M<sub>x</sub>=21.17  
 Tensioni:  $\sigma_N=-555.34$   $\sigma_M=-142.87$   $\tau=40.73$   $\sigma_{max}=-698.21$   
 Tensioni:  $\sigma_N=-555.34$   $\sigma_M=-85.71$   $\tau=75.80$   $\tau_{max}=75.80$   
 Tensioni:  $\sigma_N=-555.34$   $\sigma_M=-136.06$   $\tau=69.92$   $\sigma_{ID,max}=701.93$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
 Sollecitazioni: N=-7641.35 T<sub>z</sub>=-94.74 M<sub>y</sub>=-48.60 T<sub>y</sub>=-147.30 M<sub>z</sub>=21.17  
 V,Ed=-147.30 Vc,Rd,Red=5740.10 V,Ed/Vc,Rd,Red=0.03

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-94.74 Vc,Rd,Red=11480.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5737.70 T<sub>z</sub>=-66.67 M<sub>y</sub>=-29.58 T<sub>y</sub>=-95.45 M<sub>z</sub>=-10.63 M<sub>x</sub>=18.15  
 Tensioni:  $\sigma_N=-416.98$   $\sigma_M=-107.15$   $\tau=34.92$   $\sigma_{max}=-524.13$   
 Tensioni:  $\sigma_N=-416.98$   $\sigma_M=-64.90$   $\tau=57.65$   $\tau_{max}=57.65$   
 Tensioni:  $\sigma_N=-416.98$   $\sigma_M=-107.15$   $\tau=34.92$   $\sigma_{ID,max}=527.61$

Asta n. 4360 (-14660 -14592) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6982.14 My,Ed=-39.96 Mz,Ed=-9.88  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.23+0.03+0.01=0.27

Verifica ZZ: 0.23+0.03+0.01=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6982.04 T<sub>z</sub>=113.36 M<sub>y</sub>=-29.16 T<sub>y</sub>=119.16 M<sub>z</sub>=-9.88 M<sub>x</sub>=-4.10  
 Tensioni:  $\sigma_N=-507.42$   $\sigma_M=-103.54$   $\tau=7.89$   $\sigma_{max}=-610.95$   
 Tensioni:  $\sigma_N=-507.42$   $\sigma_M=-63.99$   $\tau=36.27$   $\tau_{max}=36.27$   
 Tensioni:  $\sigma_N=-507.42$   $\sigma_M=-103.54$   $\tau=7.89$   $\sigma_{ID,max}=611.11$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
 Sollecitazioni: N=-6982.12 T<sub>z</sub>=108.59 M<sub>y</sub>=-38.04 T<sub>y</sub>=119.16 M<sub>z</sub>=-4.10  
 V,Ed=119.16 Vc,Rd,Red=5890.72 V,Ed/Vc,Rd,Red=0.02

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=108.59 Vc,Rd,Red=11781.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5320.18 T<sub>z</sub>=77.51 M<sub>y</sub>=-25.08 T<sub>y</sub>=88.88 M<sub>z</sub>=-9.15 M<sub>x</sub>=-10.68  
 Tensioni:  $\sigma_N=-386.64$   $\sigma_M=-91.34$   $\tau=20.54$   $\sigma_{max}=-477.98$   
 Tensioni:  $\sigma_N=-386.64$   $\sigma_M=-55.02$   $\tau=41.71$   $\tau_{max}=41.71$   
 Tensioni:  $\sigma_N=-386.64$   $\sigma_M=-91.34$   $\tau=20.54$   $\sigma_{ID,max}=479.30$

Asta n. 4360 (-14592 -14522) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6892.71 My,Ed=-52.55 Mz,Ed=2.59  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY: 0.22+0.04+0.00=0.27

Verifica ZZ: 0.22+0.03+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

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Sollecitazioni:  $N=-6892.71$   $T_x=102.41$   $M_y=-52.55$   $T_y=12.00$   $M_z=2.59$   $M_x=-3.95$

Tensioni:  $\sigma_N=-500.92$   $\sigma_M=-132.70$   $\tau=7.60$   $\sigma_{max}=-633.62$

Tensioni:  $\sigma_N=-500.92$   $\sigma_M=-7.93$   $\tau=20.88$   $\tau_{max}=20.88$

Tensioni:  $\sigma_N=-500.92$   $\sigma_M=-132.70$   $\tau=7.60$   $\sigma_{ID,max}=633.76$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.09$

Sollecitazioni:  $N=-4894.93$   $T_x=89.66$   $M_y=-49.02$   $T_y=6.49$   $M_z=-7.77$

$V,Ed=6.49$   $V_c,Rd,Red=5858.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=89.66$   $V_c,Rd,Red=11716.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5256.15$   $T_x=69.07$   $M_y=-39.25$   $T_y=5.40$   $M_z=1.28$   $M_x=-10.63$

Tensioni:  $\sigma_N=-381.99$   $\sigma_M=-96.79$   $\tau=20.45$   $\sigma_{max}=-478.78$

Tensioni:  $\sigma_N=-381.99$   $\sigma_M=-3.91$   $\tau=29.40$   $\tau_{max}=29.40$

Tensioni:  $\sigma_N=-381.99$   $\sigma_M=-96.79$   $\tau=20.45$   $\sigma_{ID,max}=480.09$

Asta n. 4360 (-14522 -14456) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-6858.99$   $M_y,Ed=-63.42$   $M_z,Ed=2.19$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.22+0.05+0.00=0.28$

Verifica ZZ:  $0.22+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-6858.99$   $T_x=86.06$   $M_y=-63.42$   $T_y=-3.67$   $M_z=1.83$   $M_x=-2.49$

Tensioni:  $\sigma_N=-498.47$   $\sigma_M=-155.60$   $\tau=4.79$   $\sigma_{max}=-654.07$

Tensioni:  $\sigma_N=-498.47$   $\sigma_M=-5.62$   $\tau=15.94$   $\tau_{max}=15.94$

Tensioni:  $\sigma_N=-498.47$   $\sigma_M=-155.60$   $\tau=4.79$   $\sigma_{ID,max}=654.12$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.05$

Sollecitazioni:  $N=-4511.91$   $T_x=111.48$   $M_y=-65.88$   $T_y=-5.07$   $M_z=-7.43$

$V,Ed=-5.07$   $V_c,Rd,Red=5861.30$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=111.48$   $V_c,Rd,Red=11722.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-5228.82$   $T_x=56.96$   $M_y=-45.99$   $T_y=-4.24$   $M_z=1.47$   $M_x=-10.14$

Tensioni:  $\sigma_N=-380.00$   $\sigma_M=-113.33$   $\tau=19.52$   $\sigma_{max}=-493.33$

Tensioni:  $\sigma_N=-380.00$   $\sigma_M=-4.50$   $\tau=26.90$   $\tau_{max}=26.90$

Tensioni:  $\sigma_N=-380.00$   $\sigma_M=-113.33$   $\tau=19.52$   $\sigma_{ID,max}=494.49$

Asta n. 4360 (-14456 -14390) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-6857.05$   $M_y,Ed=-71.21$   $M_z,Ed=1.75$

Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$

Verifica YY:  $0.22+0.06+0.00=0.28$

Verifica ZZ:  $0.22+0.05+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-6857.05$   $T_x=59.27$   $M_y=-71.21$   $T_y=-3.93$   $M_z=1.37$

Tensioni:  $\sigma_N=-498.33$   $\sigma_M=-172.26$   $\tau=0.00$   $\sigma_{max}=-670.60$

Tensioni:  $\sigma_N=-498.33$   $\sigma_M=4.20$   $\tau=7.68$   $\tau_{max}=7.68$

Tensioni:  $\sigma_N=-498.33$   $\sigma_M=-172.26$   $\tau=0.00$   $\sigma_{ID,max}=670.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$

Sollecitazioni:  $N=-4516.89$   $T_x=82.71$   $M_y=-72.96$   $T_y=-3.08$   $M_z=-4.01$

$V,Ed=-3.08$   $V_c,Rd,Red=5891.48$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=82.71 Vc,Rd,Red=11783.00 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5214.64 T<sub>z</sub>=39.83 M<sub>y</sub>=-50.86 T<sub>y</sub>=-2.82 M<sub>z</sub>=1.58 M<sub>x</sub>=-9.34  
Tensioni:  $\sigma_N$ =-378.97  $\sigma_M$ =-125.16  $\tau$ =17.97  $\sigma_{max}$ =-504.13  
Tensioni:  $\sigma_N$ =-378.97  $\sigma_M$ =-4.85  $\tau$ =23.14  $\tau_{max}$ =23.14  
Tensioni:  $\sigma_N$ =-378.97  $\sigma_M$ =-125.16  $\tau$ =17.97  $\sigma_{ID,max}$ =505.09

Asta n. 4360 (-14390 -14324) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6864.13 M<sub>y</sub>,Ed=-75.31 M<sub>z</sub>,Ed=1.30  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358300.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.22+0.06+0.00=0.29  
Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-6864.13 T<sub>z</sub>=28.61 M<sub>y</sub>=-75.31 T<sub>y</sub>=-1.52 M<sub>z</sub>=1.15 M<sub>x</sub>=3.60  
Tensioni:  $\sigma_N$ =-498.85  $\sigma_M$ =-181.14  $\tau$ =6.93  $\sigma_{max}$ =-679.99  
Tensioni:  $\sigma_N$ =-498.85  $\sigma_M$ =3.53  $\tau$ =10.63  $\tau_{max}$ =10.63  
Tensioni:  $\sigma_N$ =-498.85  $\sigma_M$ =-181.14  $\tau$ =6.93  $\sigma_{ID,max}$ =680.09

- Verifica a taglio dir. Z [4.2.16] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-4515.95 T<sub>z</sub>=44.85 M<sub>y</sub>=-82.11  
V,Ed=44.85 Vc,Rd=11853.80 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-5198.85 T<sub>z</sub>=21.03 M<sub>y</sub>=-53.37 M<sub>z</sub>=1.61 M<sub>x</sub>=8.91  
Tensioni:  $\sigma_N$ =-377.82  $\sigma_M$ =-131.18  $\tau$ =17.15  $\sigma_{max}$ =-509.00  
Tensioni:  $\sigma_N$ =-377.82  $\sigma_M$ =5.71  $\tau$ =19.88  $\tau_{max}$ =19.88  
Tensioni:  $\sigma_N$ =-377.82  $\sigma_M$ =-131.18  $\tau$ =17.15  $\sigma_{ID,max}$ =509.87

Asta n. 4360 (-14324 -14258) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6879.51 M<sub>y</sub>,Ed=-75.59 M<sub>z</sub>,Ed=1.20  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55358200.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387700.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.96, 0.76, 0.96  
Verifica YY: 0.22+0.06+0.00=0.29  
Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.05 - Classe 3  
Sollecitazioni: N=-6879.47 T<sub>z</sub>=-1.23 M<sub>y</sub>=-75.61 M<sub>z</sub>=1.17 M<sub>x</sub>=7.31  
Tensioni:  $\sigma_N$ =-499.96  $\sigma_M$ =-181.90  $\tau$ =14.06  $\sigma_{max}$ =-681.86  
Tensioni:  $\sigma_N$ =-499.96  $\sigma_M$ =-3.58  $\tau$ =14.22  $\tau_{max}$ =14.22  
Tensioni:  $\sigma_N$ =-499.96  $\sigma_M$ =-181.90  $\tau$ =14.06  $\sigma_{ID,max}$ =682.29

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.10  
Sollecitazioni: N=-4858.90 T<sub>z</sub>=3.83 M<sub>y</sub>=-70.67 T<sub>y</sub>=4.85 M<sub>x</sub>=4.26  
V,Ed=4.85 Vc,Rd,Red=5889.27 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=3.83 Vc,Rd,Red=11778.50 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-5180.96 T<sub>z</sub>=11.19 M<sub>y</sub>=-53.52 T<sub>y</sub>=1.62 M<sub>z</sub>=1.66 M<sub>x</sub>=10.50  
Tensioni:  $\sigma_N$ =-376.52  $\sigma_M$ =-131.70  $\tau$ =20.21  $\sigma_{max}$ =-508.23  
Tensioni:  $\sigma_N$ =-376.52  $\sigma_M$ =5.08  $\tau$ =21.66  $\tau_{max}$ =21.66  
Tensioni:  $\sigma_N$ =-376.52  $\sigma_M$ =-131.70  $\tau$ =20.21  $\sigma_{ID,max}$ =509.43

Asta n. 4360 (-14258 -14192) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6906.37 My,Ed=-75.02 Mz,Ed=1.40  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.22+0.06+0.00=0.29  
 Verifica ZZ: 0.22+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6906.28 T<sub>2</sub>=-28.86 M<sub>y</sub>=-75.02 T<sub>y</sub>=1.93 M<sub>z</sub>=1.21 M<sub>x</sub>=10.72  
 Tensioni:  $\sigma_N=-501.91$   $\sigma_M=-180.68$   $\tau=20.63$   $\sigma_{max}=-682.59$   
 Tensioni:  $\sigma_N=-501.91$   $\sigma_M=-3.73$   $\tau=24.37$   $\tau_{max}=24.37$   
 Tensioni:  $\sigma_N=-501.91$   $\sigma_M=-180.68$   $\tau=20.63$   $\sigma_{ID,max}=683.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
 Sollecitazioni: N=-3773.14 T<sub>2</sub>=-43.04 M<sub>y</sub>=-78.95 T<sub>y</sub>=2.25 M<sub>x</sub>=10.98  
 V,Ed=2.25 Vc,Rd,Red=5830.02 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-43.04 Vc,Rd,Red=11660.00 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5162.87 T<sub>2</sub>=-22.27 M<sub>y</sub>=-53.14 T<sub>y</sub>=3.50 M<sub>z</sub>=1.63 M<sub>x</sub>=12.06  
 Tensioni:  $\sigma_N=-375.21$   $\sigma_M=-130.68$   $\tau=23.22$   $\sigma_{max}=-505.89$   
 Tensioni:  $\sigma_N=-375.21$   $\sigma_M=-4.98$   $\tau=26.10$   $\tau_{max}=26.10$   
 Tensioni:  $\sigma_N=-375.21$   $\sigma_M=-130.68$   $\tau=23.22$   $\sigma_{ID,max}=507.49$

Asta n. 4360 (-14192 -14126) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-6954.09 My,Ed=-70.77 Mz,Ed=1.46  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96  
 Verifica YY: 0.23+0.06+0.00=0.28  
 Verifica ZZ: 0.23+0.05+0.00=0.27

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-6954.00 T<sub>2</sub>=-54.63 M<sub>y</sub>=-70.77 M<sub>z</sub>=1.46 M<sub>x</sub>=13.40  
 Tensioni:  $\sigma_N=-505.38$   $\sigma_M=-171.58$   $\tau=25.78$   $\sigma_{max}=-676.95$   
 Tensioni:  $\sigma_N=-505.38$   $\sigma_M=-4.49$   $\tau=32.86$   $\tau_{max}=32.86$   
 Tensioni:  $\sigma_N=-505.38$   $\sigma_M=-171.58$   $\tau=25.78$   $\sigma_{ID,max}=678.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
 Sollecitazioni: N=-3770.96 T<sub>2</sub>=-74.03 M<sub>y</sub>=-70.58 T<sub>y</sub>=3.06 M<sub>x</sub>=14.35  
 V,Ed=3.06 Vc,Rd,Red=5800.25 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-74.03 Vc,Rd,Red=11600.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5149.49 T<sub>2</sub>=-38.73 M<sub>y</sub>=-50.40 T<sub>y</sub>=4.33 M<sub>z</sub>=1.52 M<sub>x</sub>=13.33  
 Tensioni:  $\sigma_N=-374.24$   $\sigma_M=-123.86$   $\tau=25.65$   $\sigma_{max}=-498.09$   
 Tensioni:  $\sigma_N=-374.24$   $\sigma_M=-4.65$   $\tau=30.67$   $\tau_{max}=30.67$   
 Tensioni:  $\sigma_N=-374.24$   $\sigma_M=-123.86$   $\tau=25.65$   $\sigma_{ID,max}=500.07$

Asta n. 4360 (-14126 -14056) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-7052.35 My,Ed=-63.51 Mz,Ed=1.73  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.96, 0.76, 0.96

Verifica YY:  $0.23+0.05+0.00=0.28$   
 Verifica ZZ:  $0.23+0.04+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-7052.26$   $T_z=-72.92$   $M_y=-63.51$   $T_y=-21.65$   $M_z=1.73$   $M_x=14.89$   
 Tensioni:  $\sigma_N=-512.52$   $\sigma_M=-155.43$   $\tau=28.65$   $\sigma_{max}=-667.95$   
 Tensioni:  $\sigma_N=-512.52$   $\sigma_M=-5.30$   $\tau=38.11$   $\tau_{max}=38.11$   
 Tensioni:  $\sigma_N=-512.52$   $\sigma_M=-155.43$   $\tau=28.65$   $\sigma_{ID,max}=669.79$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-3782.90$   $T_z=-96.36$   $M_y=-59.42$   $T_y=-3.19$   $M_x=16.29$   
 $V,Ed=-3.19$   $Vc,Rd,Red=5783.17$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-96.36$   $Vc,Rd,Red=11566.30$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-5159.35$   $T_z=-52.05$   $M_y=-45.82$   $T_y=-4.88$   $M_z=1.32$   $M_x=14.07$   
 Tensioni:  $\sigma_N=-374.95$   $\sigma_M=-112.38$   $\tau=27.08$   $\sigma_{max}=-487.33$   
 Tensioni:  $\sigma_N=-374.95$   $\sigma_M=-4.04$   $\tau=33.82$   $\tau_{max}=33.82$   
 Tensioni:  $\sigma_N=-374.95$   $\sigma_M=-112.38$   $\tau=27.08$   $\sigma_{ID,max}=489.58$

Asta n. 4360 (-14056 -13991) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-7239.48$   $M_y,Ed=-54.34$   $M_z,Ed=-13.03$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.24+0.04+0.02=0.30$   
 Verifica ZZ:  $0.24+0.03+0.02=0.29$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-7239.48$   $T_z=-82.34$   $M_y=-46.58$   $T_y=-132.29$   $M_z=-13.03$   $M_x=15.06$   
 Tensioni:  $\sigma_N=-526.13$   $\sigma_M=-155.62$   $\tau=28.98$   $\sigma_{max}=-681.74$   
 Tensioni:  $\sigma_N=-526.13$   $\sigma_M=-102.20$   $\tau=60.48$   $\tau_{max}=60.48$   
 Tensioni:  $\sigma_N=-526.13$   $\sigma_M=-155.62$   $\tau=28.98$   $\sigma_{ID,max}=683.59$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-7239.39$   $T_z=-76.51$   $M_y=-54.34$   $T_y=-132.29$   $M_x=15.06$   
 $V,Ed=-132.29$   $Vc,Rd,Red=5793.98$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-76.51$   $Vc,Rd,Red=11588.00$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-5224.11$   $T_z=-59.60$   $M_y=-35.45$   $T_y=-77.70$   $M_z=-8.76$   $M_x=14.11$   
 Tensioni:  $\sigma_N=-379.66$   $\sigma_M=-114.35$   $\tau=27.14$   $\sigma_{max}=-494.00$   
 Tensioni:  $\sigma_N=-379.66$   $\sigma_M=-77.79$   $\tau=45.64$   $\tau_{max}=45.64$   
 Tensioni:  $\sigma_N=-379.66$   $\sigma_M=-114.35$   $\tau=27.14$   $\sigma_{ID,max}=496.24$

Asta n. 4360 (-13991 -13921) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-6551.02$   $M_y,Ed=-46.79$   $M_z,Ed=-9.08$   
 Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
 Verifica YY:  $0.21+0.04+0.01=0.26$   
 Verifica ZZ:  $0.21+0.03+0.01=0.26$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-6550.92$   $T_z=101.84$   $M_y=-37.12$   $T_y=109.09$   $M_z=-9.08$   $M_x=-8.16$   
 Tensioni:  $\sigma_N=-476.08$   $\sigma_M=-119.39$   $\tau=15.70$   $\sigma_{max}=-595.47$   
 Tensioni:  $\sigma_N=-476.08$   $\sigma_M=-81.45$   $\tau=41.68$   $\tau_{max}=41.68$   
 Tensioni:  $\sigma_N=-476.08$   $\sigma_M=-119.39$   $\tau=15.70$   $\sigma_{ID,max}=596.09$



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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.08$   
Sollecitazioni:  $N=-6551.00$   $T_z=97.08$   $M_y=-45.07$   $T_y=109.09$   $M_x=-8.16$   
 $V,Ed=109.09$   $Vc,Rd,Red=5854.91$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=97.08$   $Vc,Rd,Red=11709.80$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-4777.05$   $T_z=71.08$   $M_y=-31.11$   $T_y=79.06$   $M_z=-8.22$   $M_x=-10.08$   
Tensioni:  $\sigma_N=-347.17$   $\sigma_M=-102.25$   $\tau=19.40$   $\sigma_{max}=-449.42$   
Tensioni:  $\sigma_N=-347.17$   $\sigma_M=-68.27$   $\tau=38.22$   $\tau_{max}=38.22$   
Tensioni:  $\sigma_N=-347.17$   $\sigma_M=-102.25$   $\tau=19.40$   $\sigma_{ID,max}=450.67$

Asta n. 4360 (-13921 -13853) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6463.17$   $M_y,Ed=-58.28$   $M_z,Ed=2.37$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.21+0.05+0.00=0.26$   
Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-6463.17$   $T_z=93.01$   $M_y=-58.28$   $T_y=11.77$   $M_z=2.37$   $M_x=-8.04$   
Tensioni:  $\sigma_N=-469.71$   $\sigma_M=-145.40$   $\tau=15.47$   $\sigma_{max}=-615.11$   
Tensioni:  $\sigma_N=-469.71$   $\sigma_M=-7.27$   $\tau=27.52$   $\tau_{max}=27.52$   
Tensioni:  $\sigma_N=-469.71$   $\sigma_M=-145.40$   $\tau=15.47$   $\sigma_{ID,max}=615.69$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-4866.84$   $T_z=112.57$   $M_y=-63.38$   $M_x=-13.09$   
 $V,Ed=112.57$   $Vc,Rd,Red=11622.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-4710.07$   $T_z=64.02$   $M_y=-43.62$   $T_y=5.81$   $M_z=1.17$   $M_x=-10.04$   
Tensioni:  $\sigma_N=-342.30$   $\sigma_M=-106.68$   $\tau=19.32$   $\sigma_{max}=-448.98$   
Tensioni:  $\sigma_N=-342.30$   $\sigma_M=-3.58$   $\tau=27.62$   $\tau_{max}=27.62$   
Tensioni:  $\sigma_N=-342.30$   $\sigma_M=-106.68$   $\tau=19.32$   $\sigma_{ID,max}=450.23$

Asta n. 4360 (-13853 -13787) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6421.42$   $M_y,Ed=-67.96$   $M_z,Ed=1.96$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.21+0.05+0.00=0.27$   
Verifica ZZ:  $0.21+0.04+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-6421.42$   $T_z=75.69$   $M_y=-67.96$   $T_y=-2.54$   $M_z=1.71$   $M_x=-6.60$   
Tensioni:  $\sigma_N=-466.67$   $\sigma_M=-165.83$   $\tau=12.71$   $\sigma_{max}=-632.50$   
Tensioni:  $\sigma_N=-466.67$   $\sigma_M=-5.24$   $\tau=22.52$   $\tau_{max}=22.52$   
Tensioni:  $\sigma_N=-466.67$   $\sigma_M=-165.83$   $\tau=12.71$   $\sigma_{ID,max}=632.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-3432.90$   $T_z=98.56$   $M_y=-67.35$   $T_y=-4.04$   $M_x=-9.98$   
 $V,Ed=-4.04$   $Vc,Rd,Red=5838.83$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=98.56$   $Vc,Rd,Red=11677.70$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-4670.83$   $T_z=51.32$   $M_y=-49.50$   $T_y=-2.97$   $M_z=1.33$   $M_x=-9.46$   
Tensioni:  $\sigma_N=-339.45$   $\sigma_M=-121.09$   $\tau=18.21$   $\sigma_{max}=-460.55$

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Tensioni:  $\sigma_N=-339.45$   $\sigma_M=-4.09$   $\tau=24.87$   $\tau_{max}=24.87$   
Tensioni:  $\sigma_N=-339.45$   $\sigma_M=-121.09$   $\tau=18.21$   $\sigma_{ID,max}=461.62$

Asta n. 4360 (-13787 -13721) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6405.08 My,Ed=-74.50 Mz,Ed=1.57  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26
  - Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-5919.14 Tz=62.61 My=-90.28 Ty=-3.01 Mz=1.01 Mx=-6.03  
Tensioni:  $\sigma_N=-430.17$   $\sigma_M=-215.84$   $\tau=11.61$   $\sigma_{max}=-646.01$   
Tensioni:  $\sigma_N=-430.17$   $\sigma_M=-3.10$   $\tau=19.73$   $\tau_{max}=19.73$   
Tensioni:  $\sigma_N=-430.17$   $\sigma_M=-215.84$   $\tau=11.61$   $\sigma_{ID,max}=646.33$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-4051.04 Tz=68.04 My=-84.67 Ty=-2.30 Mx=-6.95  
V,Ed=-2.30 Vc,Rd,Red=5865.60 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=68.04 Vc,Rd,Red=11731.20 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4639.77 Tz=34.34 My=-53.50 Ty=-1.81 Mz=1.42 Mx=-8.51  
Tensioni:  $\sigma_N=-337.19$   $\sigma_M=-130.82$   $\tau=16.38$   $\sigma_{max}=-468.01$   
Tensioni:  $\sigma_N=-337.19$   $\sigma_M=-4.36$   $\tau=20.83$   $\tau_{max}=20.83$   
Tensioni:  $\sigma_N=-337.19$   $\sigma_M=-130.82$   $\tau=16.38$   $\sigma_{ID,max}=468.87$

Asta n. 4360 (-13721 -13655) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6396.86 My,Ed=-77.55 Mz,Ed=1.17  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-6396.86 Tz=19.59 My=-77.55 Mz=1.09  
Tensioni:  $\sigma_N=-464.89$   $\sigma_M=-186.21$   $\tau=0.00$   $\sigma_{max}=-651.10$   
Tensioni:  $\sigma_N=-464.89$   $\sigma_M=3.87$   $\tau=2.54$   $\tau_{max}=2.54$   
Tensioni:  $\sigma_N=-464.89$   $\sigma_M=-186.21$   $\tau=0.00$   $\sigma_{ID,max}=651.10$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-4036.55 Tz=31.05 My=-92.12 Mx=-2.64  
V,Ed=31.05 Vc,Rd,Red=11807.30 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-4605.89 Tz=17.52 My=-55.28 Mz=1.45 Mx=-7.41  
Tensioni:  $\sigma_N=-334.73$   $\sigma_M=-135.09$   $\tau=14.26$   $\sigma_{max}=-469.82$   
Tensioni:  $\sigma_N=-334.73$   $\sigma_M=-4.44$   $\tau=16.53$   $\tau_{max}=16.53$   
Tensioni:  $\sigma_N=-334.73$   $\sigma_M=-135.09$   $\tau=14.26$   $\sigma_{ID,max}=470.47$

Asta n. 4360 (-13655 -13589) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6395.32 My,Ed=-77.66 Mz,Ed=1.11  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6395.22 T<sub>z</sub>=-8.34 M<sub>y</sub>=-77.66 M<sub>z</sub>=1.02 M<sub>x</sub>=3.02  
Tensioni:  $\sigma_N=-464.77$   $\sigma_M=-186.19$   $\tau=5.81$   $\sigma_{max}=-650.96$   
Tensioni:  $\sigma_N=-464.77$   $\sigma_M=-3.12$   $\tau=6.89$   $\tau_{max}=6.89$   
Tensioni:  $\sigma_N=-464.77$   $\sigma_M=-186.19$   $\tau=5.81$   $\sigma_{ID,max}=651.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-5895.67 T<sub>z</sub>=-15.84 M<sub>y</sub>=-94.07 T<sub>y</sub>=1.20 M<sub>x</sub>=2.92  
V,Ed=1.20 Vc,Rd,Red=5901.16 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-15.84 Vc,Rd,Red=11802.30 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4568.76 T<sub>z</sub>=-12.34 M<sub>y</sub>=-55.33 T<sub>y</sub>=1.99 M<sub>z</sub>=1.51 M<sub>x</sub>=7.04  
Tensioni:  $\sigma_N=-332.03$   $\sigma_M=-135.41$   $\tau=13.55$   $\sigma_{max}=-467.44$   
Tensioni:  $\sigma_N=-332.03$   $\sigma_M=-4.62$   $\tau=15.15$   $\tau_{max}=15.15$   
Tensioni:  $\sigma_N=-332.03$   $\sigma_M=-135.41$   $\tau=13.55$   $\sigma_{ID,max}=468.03$

Asta n. 4360 (-13589 -13523) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6403.83 My,Ed=-75.92 Mz,Ed=1.32  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6403.74 T<sub>z</sub>=-37.22 M<sub>y</sub>=-75.92 T<sub>y</sub>=2.51 M<sub>z</sub>=1.08 M<sub>x</sub>=6.35  
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-182.30$   $\tau=12.21$   $\sigma_{max}=-647.69$   
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-3.30$   $\tau=17.04$   $\tau_{max}=17.04$   
Tensioni:  $\sigma_N=-465.39$   $\sigma_M=-182.30$   $\tau=12.21$   $\sigma_{ID,max}=648.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
Sollecitazioni: N=-3393.78 T<sub>z</sub>=-52.69 M<sub>y</sub>=-81.75 T<sub>y</sub>=2.90 M<sub>x</sub>=6.57  
V,Ed=2.90 Vc,Rd,Red=5868.94 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-52.69 Vc,Rd,Red=11737.90 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-4530.27 T<sub>z</sub>=-29.11 M<sub>y</sub>=-54.15 T<sub>y</sub>=3.99 M<sub>z</sub>=1.47 M<sub>x</sub>=8.43  
Tensioni:  $\sigma_N=-329.24$   $\sigma_M=-132.52$   $\tau=16.23$   $\sigma_{max}=-461.76$   
Tensioni:  $\sigma_N=-329.24$   $\sigma_M=-4.51$   $\tau=20.00$   $\tau_{max}=20.00$   
Tensioni:  $\sigma_N=-329.24$   $\sigma_M=-132.52$   $\tau=16.23$   $\sigma_{ID,max}=462.61$

Asta n. 4360 (-13523 -13453) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-6429.71 My,Ed=-70.69 Mz,Ed=1.29  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.21+0.06+0.00=0.27  
Verifica ZZ: 0.21+0.05+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-6429.62 T<sub>z</sub>=-64.53 M<sub>y</sub>=-70.69 M<sub>z</sub>=1.29 M<sub>x</sub>=8.97  
Tensioni:  $\sigma_N=-467.27$   $\sigma_M=-170.77$   $\tau=17.27$   $\sigma_{max}=-638.04$

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Tensioni:  $\sigma_N=-467.27$   $\sigma_M=-3.96$   $\tau=25.63$   $\tau_{max}=25.63$   
Tensioni:  $\sigma_N=-467.27$   $\sigma_M=-170.77$   $\tau=17.27$   $\sigma_{ID,max}=638.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-3373.15$   $T_z=-84.46$   $M_y=-72.18$   $T_y=3.65$   $M_x=9.89$   
 $V,Ed=3.65$   $Vc,Rd,Red=5839.61$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-84.46$   $Vc,Rd,Red=11679.20$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-4494.17$   $T_z=-46.13$   $M_y=-50.75$   $T_y=4.98$   $M_z=1.37$   $M_x=9.59$   
Tensioni:  $\sigma_N=-326.61$   $\sigma_M=-124.18$   $\tau=18.45$   $\sigma_{max}=-450.79$   
Tensioni:  $\sigma_N=-326.61$   $\sigma_M=-4.21$   $\tau=24.43$   $\tau_{max}=24.43$   
Tensioni:  $\sigma_N=-326.61$   $\sigma_M=-124.18$   $\tau=18.45$   $\sigma_{ID,max}=451.92$

Asta n. 4360 (-13453 -13381) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6503.36$   $M_y,Ed=-62.32$   $M_z,Ed=1.51$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.21+0.05+0.00=0.26$   
Verifica ZZ:  $0.21+0.04+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-6503.27$   $T_z=-80.53$   $M_y=-62.32$   $T_y=-18.19$   $M_z=1.51$   $M_x=10.38$   
Tensioni:  $\sigma_N=-472.62$   $\sigma_M=-151.84$   $\tau=19.97$   $\sigma_{max}=-624.47$   
Tensioni:  $\sigma_N=-472.62$   $\sigma_M=-4.62$   $\tau=30.40$   $\tau_{max}=30.40$   
Tensioni:  $\sigma_N=-472.62$   $\sigma_M=-151.84$   $\tau=19.97$   $\sigma_{ID,max}=625.42$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-3365.50$   $T_z=-105.25$   $M_y=-60.00$   $M_x=11.74$   
 $V,Ed=-105.25$   $Vc,Rd,Red=11646.50$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-4477.88$   $T_z=-58.04$   $M_y=-45.45$   $T_y=-1.90$   $M_z=1.19$   $M_x=10.24$   
Tensioni:  $\sigma_N=-325.43$   $\sigma_M=-111.06$   $\tau=19.71$   $\sigma_{max}=-436.49$   
Tensioni:  $\sigma_N=-325.43$   $\sigma_M=-3.64$   $\tau=27.24$   $\tau_{max}=27.24$   
Tensioni:  $\sigma_N=-325.43$   $\sigma_M=-111.06$   $\tau=19.71$   $\sigma_{ID,max}=437.82$

Asta n. 4360 (-13381 -13314) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-6658.40$   $M_y,Ed=-52.27$   $M_z,Ed=-11.12$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.96, 0.76, 0.96$   
Verifica YY:  $0.22+0.04+0.02=0.28$   
Verifica ZZ:  $0.22+0.03+0.02=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-6658.40$   $T_z=-91.11$   $M_y=-43.65$   $T_y=-112.75$   $M_z=-11.12$   $M_x=10.48$   
Tensioni:  $\sigma_N=-483.89$   $\sigma_M=-141.99$   $\tau=20.17$   $\sigma_{max}=-625.89$   
Tensioni:  $\sigma_N=-483.89$   $\sigma_M=-95.78$   $\tau=47.02$   $\tau_{max}=47.02$   
Tensioni:  $\sigma_N=-483.89$   $\sigma_M=-141.99$   $\tau=20.17$   $\sigma_{ID,max}=626.86$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-6658.31$   $T_z=-85.28$   $M_y=-52.27$   $T_y=-112.75$   $M_x=10.48$   
 $V,Ed=-112.75$   $Vc,Rd,Red=5834.39$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-85.28$   $Vc,Rd,Red=11668.80$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3

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Sollecitazioni:  $N=-4508.26$   $T_2=-66.25$   $M_y=-33.94$   $T_y=-56.37$   $M_z=-6.46$   $M_x=10.25$   
Tensioni:  $\sigma_N=-327.63$   $\sigma_M=-102.64$   $\tau=19.72$   $\sigma_{max}=-430.28$   
Tensioni:  $\sigma_N=-327.63$   $\sigma_M=-74.48$   $\tau=33.15$   $\tau_{max}=33.15$   
Tensioni:  $\sigma_N=-327.63$   $\sigma_M=-102.64$   $\tau=19.72$   $\sigma_{ID,max}=431.63$

Asta n. 4360 (-13314 -13245) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-5939.33$   $M_y,Ed=-45.58$   $M_z,Ed=-8.38$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.19+0.04+0.01=0.24$   
Verifica ZZ:  $0.19+0.03+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5939.33$   $T_2=106.24$   $M_y=-45.58$   $T_y=99.32$   $M_z=1.33$   $M_x=-14.34$   
Tensioni:  $\sigma_N=-431.64$   $\sigma_M=-111.88$   $\tau=27.59$   $\sigma_{max}=-543.52$   
Tensioni:  $\sigma_N=-431.64$   $\sigma_M=-100.03$   $\tau=51.24$   $\tau_{max}=51.24$   
Tensioni:  $\sigma_N=-431.64$   $\sigma_M=-111.25$   $\tau=47.27$   $\sigma_{ID,max}=549.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.08$   
Sollecitazioni:  $N=-5939.31$   $T_2=107.30$   $M_y=-43.69$   $T_y=99.32$   $M_x=-14.34$   
 $V,Ed=99.32$   $V_c,Rd,Red=5800.37$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=107.30$   $V_c,Rd,Red=11600.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4042.52$   $T_2=77.70$   $M_y=-29.97$   $T_y=67.59$   $M_z=-7.13$   $M_x=-12.62$   
Tensioni:  $\sigma_N=-293.79$   $\sigma_M=-95.70$   $\tau=24.28$   $\sigma_{max}=-389.49$   
Tensioni:  $\sigma_N=-293.79$   $\sigma_M=-65.77$   $\tau=40.38$   $\tau_{max}=40.38$   
Tensioni:  $\sigma_N=-293.79$   $\sigma_M=-95.70$   $\tau=24.28$   $\sigma_{ID,max}=391.75$

Asta n. 4360 (-13245 -13182) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-5845.80$   $M_y,Ed=-58.01$   $M_z,Ed=2.11$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.19+0.05+0.00=0.24$   
Verifica ZZ:  $0.19+0.04+0.00=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-5845.80$   $T_2=100.93$   $M_y=-58.01$   $T_y=12.21$   $M_z=2.11$   $M_x=-14.16$   
Tensioni:  $\sigma_N=-424.84$   $\sigma_M=-143.85$   $\tau=27.24$   $\sigma_{max}=-568.70$   
Tensioni:  $\sigma_N=-424.84$   $\sigma_M=-6.46$   $\tau=40.33$   $\tau_{max}=40.33$   
Tensioni:  $\sigma_N=-424.84$   $\sigma_M=-143.85$   $\tau=27.24$   $\sigma_{ID,max}=570.65$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-2957.20$   $T_2=130.36$   $M_y=-54.95$   $M_x=-18.25$   
 $V,Ed=130.36$   $V_c,Rd,Red=11531.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-3971.10$   $T_2=69.20$   $M_y=-43.81$   $T_y=6.29$   $M_z=1.00$   $M_x=-12.54$   
Tensioni:  $\sigma_N=-288.60$   $\sigma_M=-106.55$   $\tau=24.13$   $\sigma_{max}=-395.14$   
Tensioni:  $\sigma_N=-288.60$   $\sigma_M=-3.08$   $\tau=33.10$   $\tau_{max}=33.10$   
Tensioni:  $\sigma_N=-288.60$   $\sigma_M=-106.55$   $\tau=24.13$   $\sigma_{ID,max}=397.35$

Asta n. 4360 (-13182 -13104) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-5788.42$   $M_y,Ed=-68.73$   $M_z,Ed=1.67$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.19+0.06+0.00=0.25$

Verifica ZZ:  $0.19+0.04+0.00=0.23$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5236.97 T<sub>z</sub>=104.17 M<sub>y</sub>=-85.95 T<sub>y</sub>=-2.55 M<sub>z</sub>=1.17 M<sub>x</sub>=-16.12  
 Tensioni:  $\sigma_N=-380.59$   $\sigma_M=-206.20$   $\tau=31.01$   $\sigma_{max}=-586.80$   
 Tensioni:  $\sigma_N=-380.59$   $\sigma_M=-3.58$   $\tau=44.52$   $\tau_{max}=44.52$   
 Tensioni:  $\sigma_N=-380.59$   $\sigma_M=-206.20$   $\tau=31.01$   $\sigma_{ID,max}=589.25$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-2944.75 T<sub>z</sub>=109.35 M<sub>y</sub>=-70.04 T<sub>y</sub>=-3.27 M<sub>z</sub>=-16.33  
 V,Ed=-3.27 Vc,Rd,Red=5782.81 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=109.35 Vc,Rd,Red=11565.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3918.04 T<sub>z</sub>=56.84 M<sub>y</sub>=-50.39 T<sub>y</sub>=-1.95 M<sub>z</sub>=1.11 M<sub>x</sub>=-11.79  
 Tensioni:  $\sigma_N=-284.74$   $\sigma_M=-122.41$   $\tau=22.69$   $\sigma_{max}=-407.15$   
 Tensioni:  $\sigma_N=-284.74$   $\sigma_M=-3.42$   $\tau=30.06$   $\tau_{max}=30.06$   
 Tensioni:  $\sigma_N=-284.74$   $\sigma_M=-122.41$   $\tau=22.69$   $\sigma_{ID,max}=409.04$

Asta n. 4360 (-13104 -13037) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5751.94 My,Ed=-76.28 Mz,Ed=1.33  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.19+0.06+0.00=0.25$

Verifica ZZ:  $0.19+0.05+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-5751.94 T<sub>z</sub>=57.50 M<sub>y</sub>=-76.28 T<sub>y</sub>=-2.15 M<sub>z</sub>=1.12 M<sub>x</sub>=-10.02  
 Tensioni:  $\sigma_N=-418.02$   $\sigma_M=-183.31$   $\tau=19.28$   $\sigma_{max}=-601.33$   
 Tensioni:  $\sigma_N=-418.02$   $\sigma_M=-3.43$   $\tau=26.73$   $\tau_{max}=26.73$   
 Tensioni:  $\sigma_N=-418.02$   $\sigma_M=-183.31$   $\tau=19.28$   $\sigma_{ID,max}=602.26$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-2929.39 T<sub>z</sub>=77.18 M<sub>y</sub>=-82.47 T<sub>y</sub>=-1.51 M<sub>z</sub>=-12.95  
 V,Ed=-1.51 Vc,Rd,Red=5812.63 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=77.18 Vc,Rd,Red=11625.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-3869.38 T<sub>z</sub>=39.12 M<sub>y</sub>=-55.05 M<sub>z</sub>=1.18 M<sub>x</sub>=-10.52  
 Tensioni:  $\sigma_N=-281.20$   $\sigma_M=-133.60$   $\tau=20.24$   $\sigma_{max}=-414.80$   
 Tensioni:  $\sigma_N=-281.20$   $\sigma_M=-3.61$   $\tau=25.31$   $\tau_{max}=25.31$   
 Tensioni:  $\sigma_N=-281.20$   $\sigma_M=-133.60$   $\tau=20.24$   $\sigma_{ID,max}=416.28$

Asta n. 4360 (-13037 -12953) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5718.55 My,Ed=-80.18 Mz,Ed=0.95  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.19+0.06+0.00=0.25$

Verifica ZZ:  $0.19+0.05+0.00=0.24$

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1

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Sollecitazioni:  $N=-4028.25$   $T_z=34.15$   $M_y=-103.56$   $T_y=2.57$   $M_x=-9.26$   
 $M_y,Ed=-103.56$   $M_y,c,Rd=1184.58$   
 $N,Ed=-4028.25$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.13$   
 $MNy,c,Rd=1184.58$   $M_y,Ed/MNy,c,Rd=0.09$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-2903.09$   $T_z=39.30$   $M_y=-90.96$   $M_x=-8.65$   
 $V,Ed=39.30$   $Vc,Rd,Red=11701.00$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-3815.30$   $T_z=20.24$   $M_y=-57.36$   $M_z=1.18$   $M_x=-9.01$   
Tensioni:  $\sigma_N=-277.27$   $\sigma_M=-139.04$   $\tau=17.35$   $\sigma_{max}=-416.32$   
Tensioni:  $\sigma_N=-277.27$   $\sigma_M=-3.63$   $\tau=19.97$   $\tau_{max}=19.97$   
Tensioni:  $\sigma_N=-277.27$   $\sigma_M=-139.04$   $\tau=17.35$   $\sigma_{ID,max}=417.40$

Asta n. 4360 (-12953 -12876) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-5688.50$   $M_y,Ed=-80.45$   $M_z,Ed=0.94$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.18+0.06+0.00=0.25$   
Verifica ZZ:  $0.18+0.05+0.00=0.24$

- Verifica a pressoflessione retta - CC 75 SLU  $Xl=0.00$  - Classe 1  
Sollecitazioni:  $N=-3975.57$   $T_z=-3.07$   $M_y=-103.87$   $M_x=-4.32$   
 $M_y,Ed=-103.87$   $M_y,c,Rd=1184.58$   
 $N,Ed=-3975.57$   $Nc,Rd=30796.20$   $n=N,Ed/Nc,Rd=0.13$   
 $MNy,c,Rd=1184.58$   $M_y,Ed/MNy,c,Rd=0.09$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-3587.64$   $M_y=-80.46$   $T_y=5.63$   $M_x=-3.73$   
 $V,Ed=5.63$   $Vc,Rd,Red=5893.98$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3756.51$   $T_z=9.62$   $M_y=-57.50$   $T_y=2.42$   $M_z=-1.27$   $M_x=-7.54$   
Tensioni:  $\sigma_N=-273.00$   $\sigma_M=-139.68$   $\tau=14.50$   $\sigma_{max}=-412.69$   
Tensioni:  $\sigma_N=-273.00$   $\sigma_M=3.89$   $\tau=15.75$   $\tau_{max}=15.75$   
Tensioni:  $\sigma_N=-273.00$   $\sigma_M=-139.68$   $\tau=14.50$   $\sigma_{ID,max}=413.45$

Asta n. 4360 (-12876 -12806) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-5664.98$   $M_y,Ed=-79.70$   $M_z,Ed=1.09$   
Resistenze:  $Nc,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55358300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.18+0.06+0.00=0.25$   
Verifica ZZ:  $0.18+0.05+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.07$  - Classe 3  
Sollecitazioni:  $N=-5664.95$   $T_z=-34.61$   $M_y=-77.39$   $T_y=2.80$   $M_z=1.01$   
Tensioni:  $\sigma_N=-411.70$   $\sigma_M=-185.55$   $\tau=0.00$   $\sigma_{max}=-597.24$   
Tensioni:  $\sigma_N=-411.70$   $\sigma_M=3.11$   $\tau=4.49$   $\tau_{max}=4.49$   
Tensioni:  $\sigma_N=-411.70$   $\sigma_M=-185.55$   $\tau=0.00$   $\sigma_{ID,max}=597.24$

- Verifica a taglio dir. Y [4.2.16] - CC 25 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-3289.67$   $T_z=-44.52$   $M_y=-96.39$   $T_y=3.41$   
 $V,Ed=3.41$   $Vc,Rd=5926.90$   $V,Ed/Vc,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-44.52$   $Vc,Rd=11853.80$   $V,Ed/Vc,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3694.88$   $T_z=-24.83$   $M_y=-56.88$   $T_y=4.04$   $M_z=-1.22$   $M_x=-6.34$

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Tensioni:  $\sigma_N=-268.52$   $\sigma_M=-138.06$   $\tau=12.20$   $\sigma_{max}=-406.59$   
 Tensioni:  $\sigma_N=-268.52$   $\sigma_M=-3.75$   $\tau=15.42$   $\tau_{max}=15.42$   
 Tensioni:  $\sigma_N=-268.52$   $\sigma_M=-138.06$   $\tau=12.20$   $\sigma_{ID,max}=407.13$

Asta n. 4360 (-12806 -12736) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5654.84 My,Ed=-75.36 Mz,Ed=1.04  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.06+0.00=0.25  
 Verifica ZZ: 0.18+0.05+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.06 - Classe 3  
 Sollecitazioni: N=-5654.80 Tz=-60.22 My=-71.73 Ty=1.01 Mz=1.01 Mx=2.86  
 Tensioni:  $\sigma_N=-410.96$   $\sigma_M=-172.20$   $\tau=5.51$   $\sigma_{max}=-583.16$   
 Tensioni:  $\sigma_N=-410.96$   $\sigma_M=-3.09$   $\tau=13.32$   $\tau_{max}=13.32$   
 Tensioni:  $\sigma_N=-410.96$   $\sigma_M=-172.20$   $\tau=5.51$   $\sigma_{ID,max}=583.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-5052.07 Tz=-76.01 My=-86.80 Ty=3.05 Mz=3.72  
 V,Ed=3.05 Vc,Rd,Red=5894.03 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-76.01 Vc,Rd,Red=11788.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3633.50 Tz=-41.36 My=-53.91 Ty=5.55 Mz=1.13 Mx=6.20  
 Tensioni:  $\sigma_N=-264.06$   $\sigma_M=-130.75$   $\tau=11.93$   $\sigma_{max}=-394.82$   
 Tensioni:  $\sigma_N=-264.06$   $\sigma_M=-3.46$   $\tau=17.29$   $\tau_{max}=17.29$   
 Tensioni:  $\sigma_N=-264.06$   $\sigma_M=-130.75$   $\tau=11.93$   $\sigma_{ID,max}=395.36$

Asta n. 4360 (-12736 -12665) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5684.45 My,Ed=-67.98 Mz,Ed=1.08  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.18+0.05+0.00=0.24  
 Verifica ZZ: 0.18+0.04+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-5684.36 Tz=-73.39 My=-67.98 Ty=-11.88 Mz=1.08 Mx=4.21  
 Tensioni:  $\sigma_N=-413.11$   $\sigma_M=-163.65$   $\tau=8.10$   $\sigma_{max}=-576.75$   
 Tensioni:  $\sigma_N=-413.11$   $\sigma_M=-3.32$   $\tau=17.62$   $\tau_{max}=17.62$   
 Tensioni:  $\sigma_N=-413.11$   $\sigma_M=-163.65$   $\tau=8.10$   $\sigma_{ID,max}=576.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
 Sollecitazioni: N=-5048.82 Tz=-96.72 My=-75.69 Ty=-5.53 Mz=5.47  
 V,Ed=-5.53 Vc,Rd,Red=5878.59 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-96.72 Vc,Rd,Red=11757.20 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3586.35 Tz=-53.84 My=-49.02 Ty=-2.09 Mz=6.68  
 Tensioni:  $\sigma_N=-260.64$   $\sigma_M=-115.26$   $\tau=12.86$   $\sigma_{max}=-375.89$   
 Tensioni:  $\sigma_N=-260.64$   $\sigma_M=0.00$   $\tau=19.84$   $\tau_{max}=19.84$   
 Tensioni:  $\sigma_N=-260.64$   $\sigma_M=-115.26$   $\tau=13.36$   $\sigma_{ID,max}=376.61$

Asta n. 4360 (-12665 -12591) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-5781.87 My,Ed=-58.84 Mz,Ed=-7.89



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Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.19+0.05+0.01=0.25

Verifica ZZ: 0.19+0.04+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-5781.87 T<sub>z</sub>=-81.63 M<sub>y</sub>=-51.15 T<sub>y</sub>=-79.41 M<sub>z</sub>=-7.89 M<sub>x</sub>=4.25  
Tensioni:  $\sigma_N$ =-420.19  $\sigma_M$ =-148.19  $\tau$ =8.17  $\sigma_{max}$ =-568.38  
Tensioni:  $\sigma_N$ =-420.19  $\sigma_M$ =-112.24  $\tau$ =27.09  $\tau_{max}$ =27.09  
Tensioni:  $\sigma_N$ =-420.19  $\sigma_M$ =-148.19  $\tau$ =8.17  $\sigma_{ID,max}$ =568.56
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=-5781.78 T<sub>z</sub>=-75.80 M<sub>y</sub>=-58.84 T<sub>y</sub>=-79.41 M<sub>x</sub>=4.25  
V,Ed=-79.41 Vc,Rd,Red=5889.43 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-75.80 Vc,Rd,Red=11778.90 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.01 - Classe 3  
Sollecitazioni: N=-3574.99 T<sub>z</sub>=-57.28 M<sub>y</sub>=-42.51 T<sub>y</sub>=-30.34 M<sub>z</sub>=1.09 M<sub>x</sub>=6.66  
Tensioni:  $\sigma_N$ =-259.81  $\sigma_M$ =-103.83  $\tau$ =12.81  $\sigma_{max}$ =-363.64  
Tensioni:  $\sigma_N$ =-259.81  $\sigma_M$ =-3.36  $\tau$ =20.24  $\tau_{max}$ =20.24  
Tensioni:  $\sigma_N$ =-259.81  $\sigma_M$ =-103.31  $\tau$ =18.82  $\sigma_{ID,max}$ =364.58

Asta n. 4360 (-12591 -12507) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4993.52 My,Ed=-55.24 Mz,Ed=-7.16  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.04+0.01=0.22  
Verifica ZZ: 0.16+0.04+0.01=0.21
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.07 - Classe 3  
Sollecitazioni: N=-4993.50 T<sub>z</sub>=114.41 M<sub>y</sub>=-52.21 T<sub>y</sub>=83.07 M<sub>z</sub>=-1.26 M<sub>x</sub>=-24.67  
Tensioni:  $\sigma_N$ =-362.90  $\sigma_M$ =-127.20  $\tau$ =47.48  $\sigma_{max}$ =-490.10  
Tensioni:  $\sigma_N$ =-362.90  $\sigma_M$ =-114.56  $\tau$ =67.26  $\tau_{max}$ =67.26  
Tensioni:  $\sigma_N$ =-362.90  $\sigma_M$ =-126.61  $\tau$ =63.94  $\sigma_{ID,max}$ =501.88
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
Sollecitazioni: N=-4993.51 T<sub>z</sub>=113.88 M<sub>y</sub>=-53.22 T<sub>y</sub>=83.07 M<sub>x</sub>=-24.67  
V,Ed=83.07 Vc,Rd,Red=5709.14 V,Ed/Vc,Rd,Red=0.01
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=113.88 Vc,Rd,Red=11418.30 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-3102.93 T<sub>z</sub>=75.42 M<sub>y</sub>=-41.38 T<sub>y</sub>=52.32 M<sub>z</sub>=1.10 M<sub>x</sub>=-18.60  
Tensioni:  $\sigma_N$ =-225.50  $\sigma_M$ =-101.20  $\tau$ =35.78  $\sigma_{max}$ =-326.70  
Tensioni:  $\sigma_N$ =-225.50  $\sigma_M$ =-90.80  $\tau$ =48.25  $\tau_{max}$ =48.25  
Tensioni:  $\sigma_N$ =-225.50  $\sigma_M$ =-100.68  $\tau$ =46.15  $\sigma_{ID,max}$ =335.83
- Asta n. 4360 (-12507 -12427) Tubo 60x120x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4888.01 My,Ed=-68.63 Mz,Ed=1.75  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.06+0.00=0.22  
Verifica ZZ: 0.16+0.04+0.00=0.21

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- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4279.55$   $T_z=133.51$   $M_y=-86.78$   $T_y=9.19$   $M_z=1.45$   $M_x=-30.14$   
 Tensioni:  $\sigma_N=-311.01$   $\sigma_M=-209.15$   $\tau=57.99$   $\sigma_{max}=-520.16$   
 Tensioni:  $\sigma_N=-311.01$   $\sigma_M=-4.44$   $\tau=75.30$   $\tau_{max}=75.30$   
 Tensioni:  $\sigma_N=-311.01$   $\sigma_M=-209.15$   $\tau=57.99$   $\sigma_{ID,max}=529.77$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2264.36$   $T_z=139.50$   $M_y=-69.58$   $M_x=-29.66$   
 $V,Ed=139.50$   $V_c,Rd,Red=11330.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3029.78$   $T_z=71.47$   $M_y=-49.43$   $T_y=6.90$   $M_x=-18.56$   
 Tensioni:  $\sigma_N=-220.19$   $\sigma_M=-116.22$   $\tau=35.71$   $\sigma_{max}=-336.41$   
 Tensioni:  $\sigma_N=-220.19$   $\sigma_M=0.00$   $\tau=44.97$   $\tau_{max}=44.97$   
 Tensioni:  $\sigma_N=-220.19$   $\sigma_M=-116.22$   $\tau=37.35$   $\sigma_{ID,max}=342.57$

Asta n. 4360 (-12427 -12361) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4800.50$   $M_y,Ed=-80.24$   $M_z,Ed=1.31$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.06+0.00=0.22$   
 Verifica ZZ:  $0.16+0.05+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4800.50$   $T_z=91.47$   $M_y=-80.24$   $M_z=1.31$   $M_x=-23.12$   
 Tensioni:  $\sigma_N=-348.87$   $\sigma_M=-193.29$   $\tau=44.49$   $\sigma_{max}=-542.16$   
 Tensioni:  $\sigma_N=-348.87$   $\sigma_M=-4.01$   $\tau=56.35$   $\tau_{max}=56.35$   
 Tensioni:  $\sigma_N=-348.87$   $\sigma_M=-193.29$   $\tau=44.49$   $\sigma_{ID,max}=547.61$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4207.60$   $T_z=118.17$   $M_y=-89.70$   $M_x=-28.29$   
 $V,Ed=118.17$   $V_c,Rd,Red=11354.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2963.81$   $T_z=58.97$   $M_y=-56.40$   $M_x=-17.78$   
 Tensioni:  $\sigma_N=-215.39$   $\sigma_M=-132.61$   $\tau=34.22$   $\sigma_{max}=-348.00$   
 Tensioni:  $\sigma_N=-215.39$   $\sigma_M=0.00$   $\tau=41.86$   $\tau_{max}=41.86$   
 Tensioni:  $\sigma_N=-215.39$   $\sigma_M=-132.61$   $\tau=34.22$   $\sigma_{ID,max}=353.01$

Asta n. 4360 (-12361 -12293) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4723.90$   $M_y,Ed=-88.67$   $M_z,Ed=0.99$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.07+0.00=0.23$   
 Verifica ZZ:  $0.15+0.06+0.00=0.21$

- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3044.12$   $T_z=80.66$   $M_y=-116.45$   $T_y=2.24$   $M_x=-26.26$   
 $M_y,Ed=-116.45$   $M_y,c,Rd=1184.58$   
 $N,Ed=-3044.12$   $N_c,Rd=30796.20$   $n=N,Ed/N_c,Rd=0.10$   
 $M_{Ny,c,Rd}=1184.58$   $M_y,Ed/M_{Ny,c,Rd}=0.10$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2203.38$   $T_z=85.82$   $M_y=-99.42$   $M_x=-24.48$   
 $V,Ed=85.82$   $V_c,Rd,Red=11421.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2897.15$   $T_z=41.71$   $M_y=-61.46$   $M_x=-16.41$   
 Tensioni:  $\sigma_N=-210.55$   $\sigma_M=-144.50$   $\tau=31.59$   $\sigma_{max}=-355.04$   
 Tensioni:  $\sigma_N=-210.55$   $\sigma_M=0.00$   $\tau=36.99$   $\tau_{max}=36.99$

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Tensioni:  $\sigma_N=-210.55$   $\sigma_M=-144.50$   $\tau=31.59$   $\sigma_{ID,max}=359.23$

Asta n. 4360 (-12293 -12221) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4644.76 My,Ed=-93.60 Mz,Ed=0.83  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358200.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.08+0.00=0.23  
Verifica ZZ: 0.15+0.06+0.00=0.21
  - Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2972.70 T<sub>z</sub>=44.92 M<sub>y</sub>=-122.38 T<sub>y</sub>=4.21 M<sub>x</sub>=-21.70  
My,Ed=-122.38 My,c,Rd=1184.58  
N,Ed=-2972.70 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.10  
M<sub>Ny,c</sub>,Rd=1184.58 My,Ed/M<sub>Ny,c</sub>,Rd=0.10
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-2155.71 T<sub>z</sub>=48.95 M<sub>y</sub>=-109.03 T<sub>y</sub>=1.43 M<sub>x</sub>=-20.25  
V,Ed=1.43 Vc,Rd,Red=5748.14 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=48.95 Vc,Rd,Red=11496.30 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2823.44 T<sub>z</sub>=24.13 M<sub>y</sub>=-64.30 T<sub>y</sub>=2.02 M<sub>x</sub>=-14.74  
Tensioni:  $\sigma_N=-205.19$   $\sigma_M=-151.19$   $\tau=28.36$   $\sigma_{max}=-356.38$   
Tensioni:  $\sigma_N=-205.19$   $\sigma_M=0.00$   $\tau=31.49$   $\tau_{max}=31.49$   
Tensioni:  $\sigma_N=-205.19$   $\sigma_M=-151.19$   $\tau=28.84$   $\sigma_{ID,max}=359.86$

Asta n. 4360 (-12221 -12156) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4564.49 My,Ed=-94.51 Mz,Ed=0.81  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387700.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.08+0.00=0.23  
Verifica ZZ: 0.15+0.06+0.00=0.21
  - Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2891.71 T<sub>z</sub>=6.69 M<sub>y</sub>=-123.67 T<sub>y</sub>=5.23 M<sub>x</sub>=-16.84  
My,Ed=-123.67 My,c,Rd=1184.58  
N,Ed=-2891.71 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
M<sub>Ny,c</sub>,Rd=1184.58 My,Ed/M<sub>Ny,c</sub>,Rd=0.10
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.10  
Sollecitazioni: N=-2619.12 T<sub>z</sub>=8.50 M<sub>y</sub>=-96.49 T<sub>y</sub>=6.30 M<sub>x</sub>=-13.89  
V,Ed=6.30 Vc,Rd,Red=5804.30 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=8.50 Vc,Rd,Red=11608.60 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2744.21 T<sub>z</sub>=12.54 M<sub>y</sub>=-64.57 T<sub>y</sub>=2.98 M<sub>z</sub>=-1.07 M<sub>x</sub>=-13.01  
Tensioni:  $\sigma_N=-199.43$   $\sigma_M=-155.60$   $\tau=25.03$   $\sigma_{max}=-355.03$   
Tensioni:  $\sigma_N=-199.43$   $\sigma_M=3.27$   $\tau=26.66$   $\tau_{max}=26.66$   
Tensioni:  $\sigma_N=-199.43$   $\sigma_M=-155.60$   $\tau=25.03$   $\sigma_{ID,max}=357.67$

Asta n. 4360 (-12156 -12059) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4485.92 My,Ed=-94.25 Mz,Ed=0.90  
Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55358300.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.08+0.00=0.22  
Verifica ZZ: 0.15+0.06+0.00=0.21

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2803.72 T<sub>z</sub>=-28.06 M<sub>y</sub>=-123.37 T<sub>y</sub>=2.69 M<sub>x</sub>=-12.35  
M<sub>y</sub>,Ed=-123.37 M<sub>y</sub>,c,Rd=1184.58  
N,Ed=-2803.72 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
M<sub>Ny</sub>,c,Rd=1184.58 M<sub>y</sub>,Ed/M<sub>Ny</sub>,c,Rd=0.10
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-2342.24 T<sub>z</sub>=-34.38 M<sub>y</sub>=-116.81 T<sub>y</sub>=4.27 M<sub>x</sub>=-11.53  
V,Ed=4.27 Vc,Rd,Red=5825.13 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-34.38 Vc,Rd,Red=11650.30 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2661.22 T<sub>z</sub>=-19.70 M<sub>y</sub>=-64.52 T<sub>y</sub>=4.39 M<sub>z</sub>=-1.04 M<sub>x</sub>=-11.51  
Tensioni:  $\sigma_N=-193.40$   $\sigma_M=-155.37$   $\tau=22.15$   $\sigma_{max}=-348.77$   
Tensioni:  $\sigma_N=-193.40$   $\sigma_M=-3.19$   $\tau=24.71$   $\tau_{max}=24.71$   
Tensioni:  $\sigma_N=-193.40$   $\sigma_M=-155.37$   $\tau=22.15$   $\sigma_{ID,max}=350.88$

Asta n. 4360 (-12059 -11966) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4414.81 M<sub>y</sub>,Ed=-90.93 M<sub>z</sub>,Ed=0.82  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.07+0.00=0.22  
Verifica ZZ: 0.14+0.06+0.00=0.20
- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2711.64 T<sub>z</sub>=-56.89 M<sub>y</sub>=-119.50 T<sub>y</sub>=4.22 M<sub>x</sub>=-8.93  
M<sub>y</sub>,Ed=-119.50 M<sub>y</sub>,c,Rd=1184.58  
N,Ed=-2711.64 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09  
M<sub>Ny</sub>,c,Rd=1184.58 M<sub>y</sub>,Ed/M<sub>Ny</sub>,c,Rd=0.10
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-3807.86 T<sub>z</sub>=-65.92 M<sub>y</sub>=-107.72 T<sub>y</sub>=4.74 M<sub>x</sub>=-8.79  
V,Ed=4.74 Vc,Rd,Red=5849.28 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-65.92 Vc,Rd,Red=11698.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2576.94 T<sub>z</sub>=-35.71 M<sub>y</sub>=-62.26 T<sub>y</sub>=5.96 M<sub>x</sub>=-10.41  
Tensioni:  $\sigma_N=-187.28$   $\sigma_M=-146.38$   $\tau=20.03$   $\sigma_{max}=-333.65$   
Tensioni:  $\sigma_N=-187.28$   $\sigma_M=0.00$   $\tau=24.65$   $\tau_{max}=24.65$   
Tensioni:  $\sigma_N=-187.28$   $\sigma_M=-146.38$   $\tau=21.45$   $\sigma_{ID,max}=335.71$

Asta n. 4360 (-11966 -11875) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4371.17 M<sub>y</sub>,Ed=-84.54 M<sub>z</sub>,Ed=0.51  
Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr, y=55358300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr, z=18387700.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.07+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.20
- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2627.71 T<sub>z</sub>=-75.17 M<sub>y</sub>=-112.28 T<sub>y</sub>=6.42 M<sub>x</sub>=-7.06  
M<sub>y</sub>,Ed=-112.28 M<sub>y</sub>,c,Rd=1184.58  
N,Ed=-2627.71 Nc,Rd=30796.20 n=N,Ed/Nc,Rd=0.09

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MNy, c, Rd=1184.58 My, Ed/MNy, c, Rd=0.09

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-2185.76 T<sub>z</sub>=-86.11 M<sub>y</sub>=-99.69 T<sub>y</sub>=8.22 M<sub>x</sub>=-6.62  
V, Ed=8.22 Vc, Rd, Red=5868.43 V, Ed/Vc, Rd, Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V, Ed=-86.11 Vc, Rd, Red=11736.90 V, Ed/Vc, Rd, Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2501.17 T<sub>z</sub>=-47.31 M<sub>y</sub>=-58.13 T<sub>y</sub>=8.13 M<sub>x</sub>=-9.84  
Tensioni:  $\sigma_N$ =-181.77  $\sigma_M$ =-136.68  $\tau$ =18.93  $\sigma_{max}$ =-318.45  
Tensioni:  $\sigma_N$ =-181.77  $\sigma_M$ =0.00  $\tau$ =25.06  $\tau_{max}$ =25.06  
Tensioni:  $\sigma_N$ =-181.77  $\sigma_M$ =-136.68  $\tau$ =20.86  $\sigma_{ID, max}$ =320.50

Asta n. 4360 (-11875 -11805) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N, Ed=-4373.19 My, Ed=-76.45 Mz, Ed=-2.41  
Resistenze: Nc, Rd=30796.20 My, c, Rd=951.93 Mz, c, Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr, y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr, z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.06+0.00=0.21  
Verifica ZZ: 0.14+0.05+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-4373.14 T<sub>z</sub>=-70.91 M<sub>y</sub>=-73.36 T<sub>y</sub>=-24.33 M<sub>z</sub>=-1.11 M<sub>x</sub>=-6.52  
Tensioni:  $\sigma_N$ =-317.81  $\sigma_M$ =-176.43  $\tau$ =12.55  $\sigma_{max}$ =-494.24  
Tensioni:  $\sigma_N$ =-317.81  $\sigma_M$ =-3.42  $\tau$ =21.75  $\tau_{max}$ =21.75  
Tensioni:  $\sigma_N$ =-317.81  $\sigma_M$ =-176.43  $\tau$ =12.55  $\sigma_{ID, max}$ =494.72

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.10  
Sollecitazioni: N=-3716.63 T<sub>z</sub>=-89.12 M<sub>y</sub>=-87.61 T<sub>y</sub>=-12.31 M<sub>x</sub>=-7.04  
V, Ed=-12.31 Vc, Rd, Red=5864.80 V, Ed/Vc, Rd, Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V, Ed=-89.12 Vc, Rd, Red=11729.60 V, Ed/Vc, Rd, Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2448.85 T<sub>z</sub>=-51.22 M<sub>y</sub>=-52.94 T<sub>y</sub>=7.56 M<sub>x</sub>=-9.83  
Tensioni:  $\sigma_N$ =-177.97  $\sigma_M$ =-124.46  $\tau$ =18.92  $\sigma_{max}$ =-302.43  
Tensioni:  $\sigma_N$ =-177.97  $\sigma_M$ =0.00  $\tau$ =25.56  $\tau_{max}$ =25.56  
Tensioni:  $\sigma_N$ =-177.97  $\sigma_M$ =-124.46  $\tau$ =20.72  $\sigma_{ID, max}$ =304.55

Asta n. 4360 (-11805 -11739) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N, Ed=-3453.82 My, Ed=-73.53 Mz, Ed=-5.64  
Resistenze: Nc, Rd=30796.20 My, c, Rd=951.93 Mz, c, Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr, y=55358300.00  $\lambda'_y$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr, z=18387700.00  $\lambda'_z$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.06+0.01=0.18  
Verifica ZZ: 0.11+0.05+0.01=0.17

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.06 - Classe 3  
Sollecitazioni: N=-2922.85 T<sub>z</sub>=106.07 M<sub>y</sub>=-89.58 T<sub>y</sub>=46.63 M<sub>z</sub>=-1.14 M<sub>x</sub>=-42.40  
Tensioni:  $\sigma_N$ =-212.42  $\sigma_M$ =-214.64  $\tau$ =81.58  $\sigma_{max}$ =-427.05  
Tensioni:  $\sigma_N$ =-212.42  $\sigma_M$ =3.49  $\tau$ =95.33  $\tau_{max}$ =95.33  
Tensioni:  $\sigma_N$ =-212.42  $\sigma_M$ =-214.10  $\tau$ =90.82  $\sigma_{ID, max}$ =454.60

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.08  
Sollecitazioni: N=-3453.80 T<sub>z</sub>=87.74 M<sub>y</sub>=-71.98 T<sub>y</sub>=61.71 M<sub>x</sub>=-35.42  
V, Ed=61.71 Vc, Rd, Red=5614.30 V, Ed/Vc, Rd, Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V, Ed=87.74 Vc, Rd, Red=11228.60 V, Ed/Vc, Rd, Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.09$  - Classe 3  
 Sollecitazioni:  $N=-2009.37$   $T_2=57.39$   $M_y=-51.94$   $T_y=35.73$   $M_z=1.05$   $M_x=-25.60$   
 Tensioni:  $\sigma_N=-146.03$   $\sigma_M=-125.83$   $\tau=49.26$   $\sigma_{max}=-271.86$   
 Tensioni:  $\sigma_N=-146.03$   $\sigma_M=-113.98$   $\tau=57.77$   $\tau_{max}=57.77$   
 Tensioni:  $\sigma_N=-146.03$   $\sigma_M=-125.34$   $\tau=56.34$   $\sigma_{ID,max}=288.38$

Asta n. 4360 (-11739 -11675) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2817.22$   $M_y,Ed=-105.68$   $M_z,Ed=1.08$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55358200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387700.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.09+0.08+0.00=0.18$   
 Verifica ZZ:  $0.09+0.07+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2817.22$   $T_2=98.57$   $M_y=-105.68$   $T_y=12.11$   $M_z=1.08$   $M_x=-42.14$   
 Tensioni:  $\sigma_N=-204.74$   $\sigma_M=-252.26$   $\tau=81.10$   $\sigma_{max}=-457.00$   
 Tensioni:  $\sigma_N=-204.74$   $\sigma_M=-3.30$   $\tau=93.87$   $\tau_{max}=93.87$   
 Tensioni:  $\sigma_N=-204.74$   $\sigma_M=-251.76$   $\tau=83.50$   $\sigma_{ID,max}=478.86$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-1409.31$   $T_2=106.56$   $M_y=-93.74$   $M_x=-40.98$   
 $V,Ed=106.56$   $V_c,Rd,Red=11130.50$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1936.38$   $T_2=52.76$   $M_y=-58.76$   $T_y=7.13$   $M_x=-25.56$   
 Tensioni:  $\sigma_N=-140.72$   $\sigma_M=-138.16$   $\tau=49.19$   $\sigma_{max}=-278.89$   
 Tensioni:  $\sigma_N=-140.72$   $\sigma_M=0.00$   $\tau=56.03$   $\tau_{max}=56.03$   
 Tensioni:  $\sigma_N=-140.72$   $\sigma_M=-138.16$   $\tau=50.89$   $\sigma_{ID,max}=292.48$

Asta n. 4360 (-11675 -11601) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2699.53$   $M_y,Ed=-115.72$   $M_z,Ed=0.85$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.09+0.09+0.00=0.18$   
 Verifica ZZ:  $0.09+0.07+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3156.47$   $T_2=63.16$   $M_y=-92.14$   $T_y=6.20$   $M_z=1.29$   $M_x=-33.78$   
 Tensioni:  $\sigma_N=-229.40$   $\sigma_M=-221.20$   $\tau=65.00$   $\sigma_{max}=-450.60$   
 Tensioni:  $\sigma_N=-229.40$   $\sigma_M=-3.97$   $\tau=73.18$   $\tau_{max}=73.18$   
 Tensioni:  $\sigma_N=-229.40$   $\sigma_M=-221.20$   $\tau=65.00$   $\sigma_{ID,max}=464.45$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-1371.78$   $T_2=84.19$   $M_y=-106.19$   $M_x=-39.06$   
 $V,Ed=84.19$   $V_c,Rd,Red=11164.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1860.44$   $T_2=40.81$   $M_y=-63.91$   $T_y=1.98$   $M_x=-24.83$   
 Tensioni:  $\sigma_N=-135.21$   $\sigma_M=-150.26$   $\tau=47.78$   $\sigma_{max}=-285.47$   
 Tensioni:  $\sigma_N=-135.21$   $\sigma_M=0.00$   $\tau=53.07$   $\tau_{max}=53.07$   
 Tensioni:  $\sigma_N=-135.21$   $\sigma_M=-150.26$   $\tau=48.26$   $\sigma_{ID,max}=297.45$

Asta n. 4360 (-11601 -11531) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2573.17$   $M_y,Ed=-122.01$   $M_z,Ed=0.70$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.08+0.10+0.00=0.18  
 Verifica ZZ: 0.08+0.08+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2997.06 T<sub>z</sub>=36.84 M<sub>y</sub>=-97.41 T<sub>y</sub>=4.48 M<sub>z</sub>=1.18 M<sub>x</sub>=-31.17  
 Tensioni:  $\sigma_N=-217.81$   $\sigma_M=-233.18$   $\tau=59.97$   $\sigma_{max}=-450.99$   
 Tensioni:  $\sigma_N=-217.81$   $\sigma_M=-3.61$   $\tau=64.75$   $\tau_{max}=64.75$   
 Tensioni:  $\sigma_N=-217.81$   $\sigma_M=-233.18$   $\tau=59.97$   $\sigma_{ID,max}=462.79$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-1323.27 T<sub>z</sub>=52.67 M<sub>y</sub>=-115.85 M<sub>z</sub>=-35.74  
 V,Ed=52.67 Vc,Rd,Red=11222.90 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1779.76 T<sub>z</sub>=25.94 M<sub>y</sub>=-67.27 T<sub>y</sub>=1.94 M<sub>z</sub>=-23.56  
 Tensioni:  $\sigma_N=-129.34$   $\sigma_M=-158.15$   $\tau=45.33$   $\sigma_{max}=-287.49$   
 Tensioni:  $\sigma_N=-129.34$   $\sigma_M=0.00$   $\tau=48.69$   $\tau_{max}=48.69$   
 Tensioni:  $\sigma_N=-129.34$   $\sigma_M=-158.15$   $\tau=45.79$   $\sigma_{ID,max}=298.23$

Asta n. 4360 (-11531 -11461) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2432.85 M<sub>y</sub>,Ed=-123.79 M<sub>z</sub>,Ed=0.62  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.08+0.10+0.00=0.18  
 Verifica ZZ: 0.08+0.08+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2826.67 T<sub>z</sub>=6.45 M<sub>y</sub>=-99.04 T<sub>y</sub>=4.90 M<sub>z</sub>=1.11 M<sub>x</sub>=-27.86  
 Tensioni:  $\sigma_N=-205.43$   $\sigma_M=-236.80$   $\tau=53.61$   $\sigma_{max}=-442.23$   
 Tensioni:  $\sigma_N=-205.43$   $\sigma_M=-217.33$   $\tau=54.78$   $\tau_{max}=54.78$   
 Tensioni:  $\sigma_N=-205.43$   $\sigma_M=-236.80$   $\tau=53.61$   $\sigma_{ID,max}=451.87$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-1260.70 T<sub>z</sub>=14.90 M<sub>y</sub>=-121.61 T<sub>y</sub>=1.66 M<sub>z</sub>=-31.50  
 V,Ed=1.66 Vc,Rd,Red=5648.89 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=14.90 Vc,Rd,Red=11297.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1691.32 T<sub>z</sub>=10.30 M<sub>y</sub>=-68.50 T<sub>y</sub>=2.58 M<sub>z</sub>=-21.97  
 Tensioni:  $\sigma_N=-122.92$   $\sigma_M=-161.05$   $\tau=42.28$   $\sigma_{max}=-283.96$   
 Tensioni:  $\sigma_N=-122.92$   $\sigma_M=0.00$   $\tau=43.61$   $\tau_{max}=43.61$   
 Tensioni:  $\sigma_N=-122.92$   $\sigma_M=-161.05$   $\tau=42.89$   $\sigma_{ID,max}=293.52$

Asta n. 4360 (-11461 -11391) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2281.63 M<sub>y</sub>,Ed=-123.72 M<sub>z</sub>,Ed=0.66  
 Resistenze: Nc,Rd=30796.20 M<sub>y</sub>,c,Rd=951.93 M<sub>z</sub>,c,Rd=632.38 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.07+0.10+0.00=0.17  
 Verifica ZZ: 0.07+0.08+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.08 - Classe 3  
 Sollecitazioni: N=-2647.83 T<sub>z</sub>=-24.53 M<sub>y</sub>=-97.25 T<sub>y</sub>=5.84 M<sub>z</sub>=1.05 M<sub>x</sub>=-24.31  
 Tensioni:  $\sigma_N=-192.43$   $\sigma_M=-232.34$   $\tau=46.79$   $\sigma_{max}=-424.77$   
 Tensioni:  $\sigma_N=-192.43$   $\sigma_M=3.21$   $\tau=49.97$   $\tau_{max}=49.97$

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Tensioni:  $\sigma_N=-192.43$   $\sigma_M=-232.34$   $\tau=46.79$   $\sigma_{ID,max}=432.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-1352.22$   $T_z=-34.07$   $M_y=-122.23$   $T_y=3.15$   $M_x=-26.49$   
 $V,Ed=3.15$   $V_c,Rd,Red=5693.12$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-34.07$   $V_c,Rd,Red=11386.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-1596.89$   $T_z=-18.44$   $M_y=-68.55$   $T_y=3.30$   $M_x=-20.32$   
Tensioni:  $\sigma_N=-116.05$   $\sigma_M=-161.17$   $\tau=39.11$   $\sigma_{max}=-277.23$   
Tensioni:  $\sigma_N=-116.05$   $\sigma_M=0.00$   $\tau=41.50$   $\tau_{max}=41.50$   
Tensioni:  $\sigma_N=-116.05$   $\sigma_M=-161.17$   $\tau=39.89$   $\sigma_{ID,max}=285.71$

Asta n. 4360 (-11391 -11325) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2121.70$   $M_y,Ed=-119.83$   $M_z,Ed=0.75$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55359300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18388000.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.07+0.10+0.00=0.17$   
Verifica ZZ:  $0.07+0.08+0.00=0.15$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.07$  - Classe 3  
Sollecitazioni:  $N=-2463.16$   $T_z=-54.20$   $M_y=-92.34$   $T_y=6.56$   $M_z=1.03$   $M_x=-21.08$   
Tensioni:  $\sigma_N=-179.01$   $\sigma_M=-220.75$   $\tau=40.57$   $\sigma_{max}=-399.76$   
Tensioni:  $\sigma_N=-179.01$   $\sigma_M=3.16$   $\tau=47.59$   $\tau_{max}=47.59$   
Tensioni:  $\sigma_N=-179.01$   $\sigma_M=-220.75$   $\tau=40.57$   $\sigma_{ID,max}=405.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-1256.32$   $T_z=-71.62$   $M_y=-114.49$   $T_y=4.38$   $M_x=-22.34$   
 $V,Ed=4.38$   $V_c,Rd,Red=5729.78$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-71.62$   $V_c,Rd,Red=11459.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-1497.86$   $T_z=-33.35$   $M_y=-67.20$   $T_y=4.18$   $M_x=-18.87$   
Tensioni:  $\sigma_N=-108.86$   $\sigma_M=-158.01$   $\tau=36.30$   $\sigma_{max}=-266.86$   
Tensioni:  $\sigma_N=-108.86$   $\sigma_M=0.00$   $\tau=40.63$   $\tau_{max}=40.63$   
Tensioni:  $\sigma_N=-108.86$   $\sigma_M=-158.01$   $\tau=37.30$   $\sigma_{ID,max}=274.57$

Asta n. 4360 (-11325 -11253) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1956.08$   $M_y,Ed=-111.47$   $M_z,Ed=0.98$   
Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.06+0.09+0.00=0.15$   
Verifica ZZ:  $0.06+0.07+0.00=0.14$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.06$  - Classe 3  
Sollecitazioni:  $N=-2276.88$   $T_z=-78.24$   $M_y=-84.71$   $T_y=8.29$   $M_z=1.02$   $M_x=-18.65$   
Tensioni:  $\sigma_N=-165.47$   $\sigma_M=-202.77$   $\tau=35.89$   $\sigma_{max}=-368.24$   
Tensioni:  $\sigma_N=-165.47$   $\sigma_M=3.11$   $\tau=46.03$   $\tau_{max}=46.03$   
Tensioni:  $\sigma_N=-165.47$   $\sigma_M=-202.29$   $\tau=37.53$   $\sigma_{ID,max}=373.46$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-1151.13$   $T_z=-101.06$   $M_y=-103.08$   $T_y=7.39$   $M_x=-19.23$   
 $V,Ed=7.39$   $V_c,Rd,Red=5757.19$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-101.06$   $V_c,Rd,Red=11514.40$   $V,Ed/V_c,Rd,Red=0.01$



- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1395.78$   $T_z=-46.86$   $M_y=-63.83$   $T_y=6.16$   $M_x=-17.80$   
 Tensioni:  $\sigma_N=-101.44$   $\sigma_M=-150.07$   $\tau=34.24$   $\sigma_{max}=-251.51$   
 Tensioni:  $\sigma_N=-101.44$   $\sigma_M=0.00$   $\tau=40.32$   $\tau_{max}=40.32$   
 Tensioni:  $\sigma_N=-101.44$   $\sigma_M=-150.07$   $\tau=35.71$   $\sigma_{ID,max}=259.00$

Asta n. 4360 (-11253 -11187) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1792.20$   $M_y,Ed=-99.64$   $M_z,Ed=1.98$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55359300.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18388000.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.08+0.00=0.14$   
 Verifica ZZ:  $0.06+0.06+0.00=0.13$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_1=0.05$  - Classe 3  
 Sollecitazioni:  $N=-1792.16$   $T_z=-118.27$   $M_y=-93.93$   $T_y=18.25$   $M_z=1.09$   $M_x=-19.20$   
 Tensioni:  $\sigma_N=-130.24$   $\sigma_M=-224.70$   $\tau=36.94$   $\sigma_{max}=-354.94$   
 Tensioni:  $\sigma_N=-130.24$   $\sigma_M=3.35$   $\tau=52.27$   $\tau_{max}=52.27$   
 Tensioni:  $\sigma_N=-130.24$   $\sigma_M=-224.19$   $\tau=40.56$   $\sigma_{ID,max}=361.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_1=0.07$   
 Sollecitazioni:  $N=-1040.71$   $T_z=-120.75$   $M_y=-92.57$   $T_y=14.45$   $M_x=-17.54$   
 $V,Ed=14.45$   $V_c,Rd,Red=5772.11$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-120.75$   $V_c,Rd,Red=11544.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1294.88$   $T_z=-57.70$   $M_y=-58.89$   $T_y=11.89$   $M_x=-17.22$   
 Tensioni:  $\sigma_N=-94.10$   $\sigma_M=-138.45$   $\tau=33.14$   $\sigma_{max}=-232.56$   
 Tensioni:  $\sigma_N=-94.10$   $\sigma_M=0.00$   $\tau=40.62$   $\tau_{max}=40.62$   
 Tensioni:  $\sigma_N=-94.10$   $\sigma_M=-138.45$   $\tau=35.97$   $\sigma_{ID,max}=240.76$

Asta n. 4360 (-11187 -11121) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1640.74$   $M_y,Ed=-85.66$   $M_z,Ed=6.50$   
 Resistenze:  $N_c,Rd=30796.20$   $M_y,c,Rd=951.93$   $M_z,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_{y^*}=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_{z^*}=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.07+0.01=0.13$   
 Verifica ZZ:  $0.05+0.06+0.01=0.12$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1640.64$   $T_z=-115.83$   $M_y=-85.66$   $T_y=54.85$   $M_z=1.14$   $M_x=-19.24$   
 Tensioni:  $\sigma_N=-119.23$   $\sigma_M=-205.43$   $\tau=37.01$   $\sigma_{max}=-324.66$   
 Tensioni:  $\sigma_N=-119.23$   $\sigma_M=3.49$   $\tau=52.03$   $\tau_{max}=52.03$   
 Tensioni:  $\sigma_N=-119.23$   $\sigma_M=-204.89$   $\tau=47.88$   $\sigma_{ID,max}=334.57$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-937.03$   $T_z=-117.01$   $M_y=-86.56$   $T_y=28.74$   $M_x=-17.57$   
 $V,Ed=28.74$   $V_c,Rd,Red=5771.84$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-117.01$   $V_c,Rd,Red=11543.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1203.65$   $T_z=-60.40$   $M_y=-52.97$   $T_y=23.59$   $M_x=-17.22$   
 Tensioni:  $\sigma_N=-87.47$   $\sigma_M=-124.53$   $\tau=33.13$   $\sigma_{max}=-212.01$   
 Tensioni:  $\sigma_N=-87.47$   $\sigma_M=0.00$   $\tau=40.96$   $\tau_{max}=40.96$   
 Tensioni:  $\sigma_N=-87.47$   $\sigma_M=-124.53$   $\tau=38.75$   $\sigma_{ID,max}=222.38$

Asta n. 4360 (-11121 -11059) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-768.73 My,Ed=-84.93 Mz,Ed=-0.71  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.07+0.00=0.09  
 Verifica ZZ: 0.02+0.05+0.00=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-868.09 Tz=49.96 My=-62.53 Ty=18.11 Mz=1.26 Mx=-45.27  
 Tensioni:  $\sigma_N=-63.09$   $\sigma_M=-151.48$   $\tau=87.11$   $\sigma_{max}=-214.57$   
 Tensioni:  $\sigma_N=-63.09$   $\sigma_M=-3.88$   $\tau=93.59$   $\tau_{max}=93.59$   
 Tensioni:  $\sigma_N=-63.09$   $\sigma_M=-150.88$   $\tau=90.70$   $\sigma_{ID,max}=265.45$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=-833.96 Tz=65.86 My=-71.96 Ty=14.11 Mz=-53.07  
 V,Ed=14.11 Vc,Rd,Red=5458.53 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=65.86 Vc,Rd,Red=10917.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-829.28 Tz=42.33 My=-48.17 Ty=18.74 Mz=-2.18 Mx=-27.83  
 Tensioni:  $\sigma_N=-60.27$   $\sigma_M=-120.98$   $\tau=53.56$   $\sigma_{max}=-181.25$   
 Tensioni:  $\sigma_N=-60.27$   $\sigma_M=6.69$   $\tau=59.05$   $\tau_{max}=59.05$   
 Tensioni:  $\sigma_N=-60.27$   $\sigma_M=-119.95$   $\tau=57.27$   $\sigma_{ID,max}=205.72$

Asta n. 4360 (-11059 -10978) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-717.15 My,Ed=-90.66 Mz,Ed=0.28  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55357200.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18387300.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.02+0.07+0.00=0.10  
 Verifica ZZ: 0.02+0.06+0.00=0.08

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-728.36 Tz=54.87 My=-85.43 Ty=14.00 Mz=1.59 Mx=-52.69  
 Tensioni:  $\sigma_N=-52.93$   $\sigma_M=-206.47$   $\tau=101.38$   $\sigma_{max}=-259.40$   
 Tensioni:  $\sigma_N=-52.93$   $\sigma_M=-4.86$   $\tau=108.49$   $\tau_{max}=108.49$   
 Tensioni:  $\sigma_N=-52.93$   $\sigma_M=-205.72$   $\tau=104.16$   $\sigma_{ID,max}=315.35$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=-728.27 Tz=60.69 My=-79.78 Ty=14.00 Mz=-52.69  
 V,Ed=14.00 Vc,Rd,Red=5461.91 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=60.69 Vc,Rd,Red=10923.80 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-758.47 Tz=35.13 My=-49.33 Ty=7.44 Mz=-27.72  
 Tensioni:  $\sigma_N=-55.12$   $\sigma_M=-115.98$   $\tau=53.35$   $\sigma_{max}=-171.10$   
 Tensioni:  $\sigma_N=-55.12$   $\sigma_M=0.00$   $\tau=57.90$   $\tau_{max}=57.90$   
 Tensioni:  $\sigma_N=-55.12$   $\sigma_M=-115.98$   $\tau=55.12$   $\sigma_{ID,max}=195.94$

Asta n. 4360 (-10978 -10911) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-651.34 My,Ed=-94.25 Mz,Ed=0.17  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$  Ncr,y=55359300.00  $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$  Ncr,z=18388000.00  $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

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Verifica YY:  $0.02+0.08+0.00=0.10$   
Verifica ZZ:  $0.02+0.06+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-596.85$   $T_z=31.98$   $M_y=-90.33$   $T_y=8.92$   $M_z=1.80$   $M_x=-50.56$   
Tensioni:  $\sigma_N=-43.38$   $\sigma_M=-218.74$   $\tau=97.28$   $\sigma_{max}=-262.12$   
Tensioni:  $\sigma_N=-43.38$   $\sigma_M=-5.52$   $\tau=101.43$   $\tau_{max}=101.43$   
Tensioni:  $\sigma_N=-43.38$   $\sigma_M=-217.89$   $\tau=99.05$   $\sigma_{ID,max}=312.56$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-596.75$   $T_z=37.81$   $M_y=-86.92$   $T_y=8.92$   $M_x=-50.56$   
 $V,Ed=8.92$   $Vc,Rd,Red=5480.69$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=37.81$   $Vc,Rd,Red=10961.40$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-675.71$   $T_z=30.69$   $M_y=-49.52$   $T_y=3.99$   $M_x=-27.04$   
Tensioni:  $\sigma_N=-49.11$   $\sigma_M=-116.42$   $\tau=52.04$   $\sigma_{max}=-165.53$   
Tensioni:  $\sigma_N=-49.11$   $\sigma_M=0.00$   $\tau=56.02$   $\tau_{max}=56.02$   
Tensioni:  $\sigma_N=-49.11$   $\sigma_M=-116.42$   $\tau=52.99$   $\sigma_{ID,max}=189.27$

Asta n. 4360 (-10911 -10836) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-573.37$   $M_y,Ed=-94.95$   $M_z,Ed=-0.14$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55357200.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18387300.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.02+0.08+0.00=0.10$   
Verifica ZZ:  $0.02+0.06+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-460.41$   $M_y=-91.51$   $T_y=6.93$   $M_z=1.89$   $M_x=-46.92$   
Tensioni:  $\sigma_N=-33.46$   $\sigma_M=-221.83$   $\tau=90.29$   $\sigma_{max}=-255.29$   
Tensioni:  $\sigma_N=-33.46$   $\sigma_M=-215.15$   $\tau=91.94$   $\tau_{max}=91.94$   
Tensioni:  $\sigma_N=-33.46$   $\sigma_M=-220.94$   $\tau=91.67$   $\sigma_{ID,max}=299.88$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-372.21$   $T_z=-16.84$   $M_y=-38.19$   $T_y=-1.00$   $M_x=-5.75$   
 $V,Ed=-1.00$   $Vc,Rd,Red=5876.16$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-16.84$   $Vc,Rd,Red=11752.30$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-585.20$   $T_z=20.95$   $M_y=-48.79$   $T_y=3.62$   $M_x=-25.93$   
Tensioni:  $\sigma_N=-42.53$   $\sigma_M=-114.71$   $\tau=49.90$   $\sigma_{max}=-157.24$   
Tensioni:  $\sigma_N=-42.53$   $\sigma_M=0.00$   $\tau=52.61$   $\tau_{max}=52.61$   
Tensioni:  $\sigma_N=-42.53$   $\sigma_M=-114.71$   $\tau=50.76$   $\sigma_{ID,max}=180.15$

Asta n. 4360 (-10836 -10771) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-487.09$   $M_y,Ed=-94.26$   $M_z,Ed=-0.18$   
Resistenze:  $Nc,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $Ncr,y=55359300.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $Ncr,z=18388000.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.02+0.08+0.00=0.09$   
Verifica ZZ:  $0.02+0.06+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-331.16$   $T_z=-32.74$   $M_y=-91.56$   $T_y=5.44$   $M_z=1.36$   $M_x=-42.19$   
Tensioni:  $\sigma_N=-24.07$   $\sigma_M=-220.10$   $\tau=81.18$   $\sigma_{max}=-244.16$   
Tensioni:  $\sigma_N=-24.07$   $\sigma_M=4.18$   $\tau=85.43$   $\tau_{max}=85.43$   
Tensioni:  $\sigma_N=-24.07$   $\sigma_M=-219.45$   $\tau=82.26$   $\sigma_{ID,max}=282.14$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-487.09$   $T_z=-43.77$   $M_y=-90.03$   $T_y=5.42$   $M_x=-40.51$   
 $V,Ed=5.42$   $V_c,Rd,Red=5569.36$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-43.77$   $V_c,Rd,Red=11138.70$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-489.49$   $T_z=-32.74$   $M_y=-46.54$   $T_y=3.80$   $M_x=-24.53$   
 Tensioni:  $\sigma_N=-35.57$   $\sigma_M=-109.42$   $\tau=47.19$   $\sigma_{max}=-145.00$   
 Tensioni:  $\sigma_N=-35.57$   $\sigma_M=0.00$   $\tau=51.44$   $\tau_{max}=51.44$   
 Tensioni:  $\sigma_N=-35.57$   $\sigma_M=-109.42$   $\tau=48.10$   $\sigma_{ID,max}=167.23$

Asta n. 4360 (-10771 -10680) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-397.39$   $My,Ed=-88.99$   $Mz,Ed=-0.14$   
 Resistenze:  $N_c,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55359300.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18388000.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.07+0.00=0.08$   
 Verifica ZZ:  $0.01+0.06+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-219.17$   $T_z=-74.18$   $M_y=-87.19$   $T_y=2.97$   $M_z=1.46$   $M_x=-36.96$   
 Tensioni:  $\sigma_N=-15.93$   $\sigma_M=-210.17$   $\tau=71.12$   $\sigma_{max}=-226.10$   
 Tensioni:  $\sigma_N=-15.93$   $\sigma_M=4.49$   $\tau=80.74$   $\tau_{max}=80.74$   
 Tensioni:  $\sigma_N=-15.93$   $\sigma_M=-210.17$   $\tau=71.12$   $\sigma_{ID,max}=257.48$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-397.39$   $T_z=-83.65$   $M_y=-80.86$   $T_y=4.95$   $M_x=-34.92$   
 $V,Ed=4.95$   $V_c,Rd,Red=5618.69$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-83.65$   $V_c,Rd,Red=11237.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-391.78$   $T_z=-47.34$   $M_y=-42.52$   $T_y=3.79$   $M_x=-23.05$   
 Tensioni:  $\sigma_N=-28.47$   $\sigma_M=-99.98$   $\tau=44.35$   $\sigma_{max}=-128.45$   
 Tensioni:  $\sigma_N=-28.47$   $\sigma_M=0.00$   $\tau=50.48$   $\tau_{max}=50.48$   
 Tensioni:  $\sigma_N=-28.47$   $\sigma_M=-99.98$   $\tau=45.25$   $\sigma_{ID,max}=150.47$

Asta n. 4360 (-10680 -10580) Tubo 60x120x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-307.40$   $My,Ed=-78.88$   $Mz,Ed=0.16$   
 Resistenze:  $N_c,Rd=30796.20$   $My,c,Rd=951.93$   $Mz,c,Rd=632.38$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.27$   $N_{cr,y}=55357200.00$   $\lambda'_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.94$   $N_{cr,z}=18387300.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.06+0.00=0.07$   
 Verifica ZZ:  $0.01+0.05+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-130.57$   $T_z=-113.97$   $M_y=-77.80$   $M_z=1.39$   $M_x=-31.86$   
 Tensioni:  $\sigma_N=-9.49$   $\sigma_M=-187.86$   $\tau=61.30$   $\sigma_{max}=-197.35$   
 Tensioni:  $\sigma_N=-9.49$   $\sigma_M=4.93$   $\tau=76.08$   $\tau_{max}=76.08$   
 Tensioni:  $\sigma_N=-9.49$   $\sigma_M=-187.86$   $\tau=61.30$   $\sigma_{ID,max}=224.10$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-307.40$   $T_z=-122.19$   $M_y=-66.98$   $T_y=5.39$   $M_x=-29.46$   
 $V,Ed=5.39$   $V_c,Rd,Red=5666.87$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-122.19$   $V_c,Rd,Red=11333.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-294.88 T<sub>z</sub>=-61.47 M<sub>y</sub>=-36.70 T<sub>y</sub>=4.13 M<sub>x</sub>=-21.66  
 Tensioni:  $\sigma_N$ =-21.43  $\sigma_M$ =-86.28  $\tau$ =41.68  $\sigma_{max}$ =-107.71  
 Tensioni:  $\sigma_N$ =-21.43  $\sigma_M$ =0.00  $\tau$ =49.65  $\tau_{max}$ =49.65  
 Tensioni:  $\sigma_N$ =-21.43  $\sigma_M$ =-86.28  $\tau$ =42.66  $\sigma_{ID,max}$ =130.62

Asta n. 4360 (-10580 -10485) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-216.70 My,Ed=-64.15 Mz,Ed=0.39  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55359300.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18388000.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.05+0.00=0.06  
 Verifica ZZ: 0.01+0.04+0.00=0.05

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-65.79 T<sub>z</sub>=-151.34 M<sub>y</sub>=-63.64 M<sub>z</sub>=1.20 M<sub>x</sub>=-27.39  
 Tensioni:  $\sigma_N$ =-4.78  $\sigma_M$ =-153.88  $\tau$ =52.71  $\sigma_{max}$ =-158.66  
 Tensioni:  $\sigma_N$ =-4.78  $\sigma_M$ =4.24  $\tau$ =72.33  $\tau_{max}$ =72.33  
 Tensioni:  $\sigma_N$ =-4.78  $\sigma_M$ =-153.88  $\tau$ =52.71  $\sigma_{ID,max}$ =183.06

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-216.70 T<sub>z</sub>=-157.64 M<sub>y</sub>=-48.78 T<sub>y</sub>=7.61 M<sub>x</sub>=-24.71  
 V,Ed=7.61 Vc,Rd,Red=5708.83 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-157.64 Vc,Rd,Red=11417.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-200.52 T<sub>z</sub>=-74.24 M<sub>y</sub>=-29.17 T<sub>y</sub>=-2.52 M<sub>x</sub>=-20.50  
 Tensioni:  $\sigma_N$ =-14.57  $\sigma_M$ =-68.58  $\tau$ =39.46  $\sigma_{max}$ =-83.15  
 Tensioni:  $\sigma_N$ =-14.57  $\sigma_M$ =0.00  $\tau$ =49.08  $\tau_{max}$ =49.08  
 Tensioni:  $\sigma_N$ =-14.57  $\sigma_M$ =-64.01  $\tau$ =44.52  $\sigma_{ID,max}$ =110.09

Asta n. 4360 (-10485 -10415) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-121.61 My,Ed=-45.26 Mz,Ed=1.40  
 Resistenze: Nc,Rd=30796.20 My,c,Rd=951.93 Mz,c,Rd=632.38 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =2.27 Ncr,y=55357200.00  $\lambda'_{y}$ =0.02 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.94 Ncr,z=18387300.00  $\lambda'_{z}$ =0.04 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.04+0.00=0.04  
 Verifica ZZ: 0.00+0.03+0.00=0.04

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.03 - Classe 3  
 Sollecitazioni: N=-19.17 T<sub>z</sub>=-179.77 M<sub>y</sub>=-40.35 T<sub>y</sub>=3.61 M<sub>z</sub>=1.01 M<sub>x</sub>=-24.21  
 Tensioni:  $\sigma_N$ =-1.39  $\sigma_M$ =-98.45  $\tau$ =46.59  $\sigma_{max}$ =-99.84  
 Tensioni:  $\sigma_N$ =-1.39  $\sigma_M$ =3.11  $\tau$ =69.90  $\tau_{max}$ =69.90  
 Tensioni:  $\sigma_N$ =-1.39  $\sigma_M$ =92.12  $\tau$ =58.85  $\sigma_{ID,max}$ =136.46

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.09  
 Sollecitazioni: N=-102.66 T<sub>z</sub>=-183.86 M<sub>y</sub>=-29.19 T<sub>y</sub>=12.86 M<sub>x</sub>=-21.48  
 V,Ed=12.86 Vc,Rd,Red=5737.29 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-183.86 Vc,Rd,Red=11474.60 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-108.61 T<sub>z</sub>=-83.81 M<sub>y</sub>=-20.14 T<sub>y</sub>=11.91 M<sub>x</sub>=-19.71  
 Tensioni:  $\sigma_N$ =-7.89  $\sigma_M$ =-47.35  $\tau$ =37.92  $\sigma_{max}$ =-55.25  
 Tensioni:  $\sigma_N$ =-7.89  $\sigma_M$ =0.00  $\tau$ =48.79  $\tau_{max}$ =48.79  
 Tensioni:  $\sigma_N$ =-7.89  $\sigma_M$ =-44.20  $\tau$ =43.70  $\sigma_{ID,max}$ =91.88

Asta n. 4360 (-10415 -10337) Tubo 60x120x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -26.35 \text{ My}, Ed = -23.53 \text{ Mz}, Ed = 3.98$   
 Resistenze:  $N_c, R_d = 30796.20 \text{ My}, c, R_d = 951.93 \text{ Mz}, c, R_d = 632.38 \text{ L} = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 2.27 \text{ Ncr}, y = 55359300.00 \lambda^*_y = 0.02$  Curva a:  $\Phi_y = 0.00 \chi_y = 1.00$   
 $\lambda_z = 3.94 \text{ Ncr}, z = 18388000.00 \lambda^*_z = 0.04$  Curva a:  $\Phi_z = 0.00 \chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00 + 0.02 + 0.01 = 0.03$   
 Verifica ZZ:  $0.00 + 0.02 + 0.01 = 0.02$

- Verifica in termini tensionali [4.2.4] - CC 49 SLU  $X1 = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 16.22 \text{ T}_z = -207.44 \text{ M}_y = -3.50 \text{ T}_y = 13.18 \text{ M}_z = 2.33 \text{ M}_x = -22.33$   
 Tensioni:  $\sigma_N = 1.18 \sigma_M = 16.47 \tau = 42.98 \sigma_{max} = 17.65$   
 Tensioni:  $\sigma_N = 1.18 \sigma_M = 7.13 \tau = 69.87 \tau_{max} = 69.87$   
 Tensioni:  $\sigma_N = 1.18 \sigma_M = 8.23 \tau = 69.87 \sigma_{ID, max} = 121.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X1 = 0.01$   
 Sollecitazioni:  $N = -22.42 \text{ T}_z = -202.34 \text{ M}_y = -21.82 \text{ T}_y = 27.08 \text{ M}_x = -19.62$   
 $V, Ed = 27.08 \text{ Vc}, R_d, Red = 5753.71 \text{ V}, Ed/Vc, R_d, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -202.34 \text{ Vc}, R_d, Red = 11507.40 \text{ V}, Ed/Vc, R_d, Red = 0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1 = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 9.71 \text{ T}_z = -94.63 \text{ M}_y = -1.44 \text{ T}_y = 23.97 \text{ M}_z = 3.34 \text{ M}_x = -19.30$   
 Tensioni:  $\sigma_N = 0.71 \sigma_M = 15.21 \tau = 37.13 \sigma_{max} = 15.92$   
 Tensioni:  $\sigma_N = 0.71 \sigma_M = 10.25 \tau = 49.40 \tau_{max} = 49.40$   
 Tensioni:  $\sigma_N = 0.71 \sigma_M = 11.83 \tau = 49.40 \sigma_{ID, max} = 86.47$

Asta n. 4662 (-2524 -2663) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z, g} = 0.00 \text{ (L/3425)}$

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z, g} = 0.00 \text{ (L/2921)}$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1 = 0.14$  - Classe 3  
 Sollecitazioni:  $N = 4180.88 \text{ T}_z = 866.18 \text{ M}_y = -132.41 \text{ T}_y = -453.13 \text{ M}_z = 109.94 \text{ M}_x = -67.81$   
 Tensioni:  $\sigma_N = 321.61 \sigma_M = 932.37 \tau = 164.38 \sigma_{max} = 1253.98$   
 Tensioni:  $\sigma_N = 321.61 \sigma_M = -386.67 \tau = 297.60 \tau_{max} = 297.60$   
 Tensioni:  $\sigma_N = 321.61 \sigma_M = 932.37 \tau = 164.38 \sigma_{ID, max} = 1285.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X1 = 0.00$   
 Sollecitazioni:  $N = 3808.33 \text{ T}_z = 858.73 \text{ T}_y = -355.17 \text{ M}_z = 134.57 \text{ M}_x = -84.93$   
 $V, Ed = -355.17 \text{ Vc}, R_d, Red = 9728.67 \text{ V}, Ed/Vc, R_d, Red = 0.04$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 858.73 \text{ Vc}, R_d, Red = 12971.60 \text{ V}, Ed/Vc, R_d, Red = 0.07$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1 = 0.14$  - Classe 3  
 Sollecitazioni:  $N = 2359.20 \text{ T}_z = 365.89 \text{ M}_y = -74.39 \text{ T}_y = -245.74 \text{ M}_z = 67.35 \text{ M}_x = -41.72$   
 Tensioni:  $\sigma_N = 181.48 \sigma_M = 547.38 \tau = 101.13 \sigma_{max} = 728.86$   
 Tensioni:  $\sigma_N = 181.48 \sigma_M = -236.88 \tau = 157.42 \tau_{max} = 157.42$   
 Tensioni:  $\sigma_N = 181.48 \sigma_M = 547.38 \tau = 101.13 \sigma_{ID, max} = 749.61$

Asta n. 4662 (-2663 -2995) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z, g} = 0.00 \text{ (L/3473)}$

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z, g} = 0.00 \text{ (L/3022)}$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1 = 0.15$  - Classe 3  
 Sollecitazioni:  $N = 4183.02 \text{ T}_z = 865.08 \text{ M}_y = -262.17 \text{ T}_y = -453.13 \text{ M}_z = 42.02 \text{ M}_x = -67.81$   
 Tensioni:  $\sigma_N = 278.87 \sigma_M = 814.09 \tau = 129.78 \sigma_{max} = 1092.96$   
 Tensioni:  $\sigma_N = 278.87 \sigma_M = -121.79 \tau = 237.34 \tau_{max} = 237.34$   
 Tensioni:  $\sigma_N = 278.87 \sigma_M = 789.73 \tau = 202.02 \sigma_{ID, max} = 1124.43$

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- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.15$  - Classe 3  
 Sollecitazioni:  $N=2360.88$   $T_z=365.24$   $M_y=-127.47$   $T_y=-245.70$   $M_z=30.60$   $M_x=-41.72$   
 Tensioni:  $\sigma_N=157.39$   $\sigma_M=431.18$   $\tau=79.84$   $\sigma_{max}=588.58$   
 Tensioni:  $\sigma_N=157.39$   $\sigma_M=292.29$   $\tau=127.99$   $\tau_{max}=127.99$   
 Tensioni:  $\sigma_N=157.39$   $\sigma_M=413.45$   $\tau=119.01$   $\sigma_{ID,max}=606.92$

Asta n. 4662 (-2995 -4464) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.23$  - Classe 3  
 Sollecitazioni:  $N=4187.13$   $T_z=862.93$   $M_y=-456.98$   $T_y=-453.13$   $M_z=-60.16$   $M_x=-67.81$   
 Tensioni:  $\sigma_N=220.38$   $\sigma_M=851.82$   $\tau=78.62$   $\sigma_{max}=1072.20$   
 Tensioni:  $\sigma_N=220.38$   $\sigma_M=106.57$   $\tau=166.27$   $\tau_{max}=166.27$   
 Tensioni:  $\sigma_N=220.38$   $\sigma_M=851.82$   $\tau=78.62$   $\sigma_{ID,max}=1080.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.08$   
 Sollecitazioni:  $N=3887.28$   $T_z=854.53$   $M_y=-309.37$   $T_y=-437.38$   $M_x=-85.61$   
 $V,Ed=-437.38$   $V_c,Rd,Red=14081.20$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=854.53$   $V_c,Rd,Red=21121.80$   $V,Ed/V_c,Rd,Red=0.04$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.23$  - Classe 3  
 Sollecitazioni:  $N=2364.05$   $T_z=363.91$   $M_y=-208.22$   $T_y=-245.62$   $M_z=-25.45$   $M_x=-41.72$   
 Tensioni:  $\sigma_N=124.42$   $\sigma_M=384.16$   $\tau=48.37$   $\sigma_{max}=508.58$   
 Tensioni:  $\sigma_N=124.42$   $\sigma_M=45.09$   $\tau=85.34$   $\tau_{max}=85.34$   
 Tensioni:  $\sigma_N=124.42$   $\sigma_M=377.72$   $\tau=76.34$   $\sigma_{ID,max}=519.26$

Asta n. 4662 (-4464 -6027) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-798.13$   $M_y,Ed=-345.11$   $M_z,Ed=-54.80$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68272600.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35916200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.13+0.03=0.17$   
 Verifica ZZ:  $0.01+0.10+0.03=0.15$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=3642.04$   $T_z=-1008.31$   $M_y=-394.26$   $T_y=-328.17$   $M_z=-75.70$   $M_x=-62.89$   
 Tensioni:  $\sigma_N=191.69$   $\sigma_M=783.08$   $\tau=72.92$   $\sigma_{max}=974.76$   
 Tensioni:  $\sigma_N=191.69$   $\sigma_M=-134.09$   $\tau=175.30$   $\tau_{max}=175.30$   
 Tensioni:  $\sigma_N=191.69$   $\sigma_M=783.08$   $\tau=72.92$   $\sigma_{ID,max}=982.91$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1965.23$   $T_z=-453.41$   $M_y=-180.08$   $T_y=-178.66$   $M_z=-33.30$   $M_x=-38.87$   
 Tensioni:  $\sigma_N=103.43$   $\sigma_M=355.11$   $\tau=45.07$   $\sigma_{max}=458.55$   
 Tensioni:  $\sigma_N=103.43$   $\sigma_M=-59.00$   $\tau=91.11$   $\tau_{max}=91.11$   
 Tensioni:  $\sigma_N=103.43$   $\sigma_M=355.11$   $\tau=45.07$   $\sigma_{ID,max}=465.14$

Asta n. 4662 (-6027 -7518) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-796.36$   $M_y,Ed=-214.05$   $M_z,Ed=-70.98$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68273300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35916600.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.08+0.04=0.13$   
 Verifica ZZ:  $0.01+0.06+0.04=0.12$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=3643.84$   $T_z=-1009.72$   $M_y=-286.53$   $T_y=-328.17$   $M_z=-110.75$   $M_x=-62.88$   
 Tensioni:  $\sigma_N=191.78$   $\sigma_M=681.95$   $\tau=72.90$   $\sigma_{max}=873.73$   
 Tensioni:  $\sigma_N=191.78$   $\sigma_M=-196.18$   $\tau=175.43$   $\tau_{max}=175.43$   
 Tensioni:  $\sigma_N=191.78$   $\sigma_M=681.95$   $\tau=72.90$   $\sigma_{ID,max}=882.80$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1966.69$   $T_z=-454.17$   $M_y=-131.66$   $T_y=-178.58$   $M_z=-52.15$   $M_x=-38.87$   
 Tensioni:  $\sigma_N=103.51$   $\sigma_M=315.90$   $\tau=45.07$   $\sigma_{max}=419.41$   
 Tensioni:  $\sigma_N=103.51$   $\sigma_M=-92.38$   $\tau=91.18$   $\tau_{max}=91.18$   
 Tensioni:  $\sigma_N=103.51$   $\sigma_M=315.90$   $\tau=45.07$   $\sigma_{ID,max}=426.61$

Asta n. 4662 (-7518 -9159) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1986.43$   $M_y,Ed=-95.40$   $M_z,Ed=-93.06$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.50$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.36$   $N_{cr,y}=70631600.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.26$   $N_{cr,z}=37157200.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.03+0.04+0.05=0.12$   
 Verifica ZZ:  $0.03+0.03+0.05=0.11$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=3259.31$   $T_z=-730.70$   $M_y=-186.37$   $T_y=-348.68$   $M_z=-160.45$   $M_x=-61.64$   
 Tensioni:  $\sigma_N=171.54$   $\sigma_M=622.56$   $\tau=71.46$   $\sigma_{max}=794.10$   
 Tensioni:  $\sigma_N=171.54$   $\sigma_M=-284.23$   $\tau=145.67$   $\tau_{max}=145.67$   
 Tensioni:  $\sigma_N=171.54$   $\sigma_M=622.56$   $\tau=71.46$   $\sigma_{ID,max}=803.69$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=1758.97$   $T_z=-321.57$   $M_y=-86.14$   $T_y=-191.56$   $M_z=-79.48$   $M_x=-38.05$   
 Tensioni:  $\sigma_N=92.58$   $\sigma_M=298.51$   $\tau=44.11$   $\sigma_{max}=391.09$   
 Tensioni:  $\sigma_N=92.58$   $\sigma_M=-140.79$   $\tau=76.78$   $\tau_{max}=76.78$   
 Tensioni:  $\sigma_N=92.58$   $\sigma_M=298.51$   $\tau=44.11$   $\sigma_{ID,max}=398.48$

Asta n. 4662 (-9159 -11077) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-220.09$   $M_y,Ed=-71.35$   $M_z,Ed=-181.46$   
 Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.27$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.08$   $N_{cr,y}=90655200.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.87$   $N_{cr,z}=47691100.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.03+0.10=0.13$   
 Verifica ZZ:  $0.00+0.02+0.10=0.13$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=2619.18$   $T_z=-333.47$   $M_y=-80.86$   $T_y=-294.18$   $M_z=-232.53$   $M_x=-60.33$   
 Tensioni:  $\sigma_N=137.85$   $\sigma_M=599.93$   $\tau=69.95$   $\sigma_{max}=737.78$   
 Tensioni:  $\sigma_N=137.85$   $\sigma_M=118.42$   $\tau=112.60$   $\tau_{max}=112.60$   
 Tensioni:  $\sigma_N=137.85$   $\sigma_M=599.93$   $\tau=69.95$   $\sigma_{ID,max}=747.66$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.09$  - Classe 3  
 Sollecitazioni:  $N=1454.02$   $T_z=-152.08$   $M_y=-43.08$   $T_y=-170.96$   $M_z=-119.81$   $M_x=-37.25$   
 Tensioni:  $\sigma_N=76.53$   $\sigma_M=311.36$   $\tau=43.19$   $\sigma_{max}=387.89$   
 Tensioni:  $\sigma_N=76.53$   $\sigma_M=63.08$   $\tau=67.97$   $\tau_{max}=67.97$   
 Tensioni:  $\sigma_N=76.53$   $\sigma_M=311.36$   $\tau=43.19$   $\sigma_{ID,max}=395.04$

Asta n. 4677 (-2480 -2569) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3377)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3014)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=2745.97$   $T_z=296.39$   $M_y=-18.49$   $T_y=-286.25$   $M_z=123.45$   $M_x=-14.09$   
 Tensioni:  $\sigma_N=211.23$   $\sigma_M=586.43$   $\tau=34.15$   $\sigma_{max}=797.66$   
 Tensioni:  $\sigma_N=211.23$   $\sigma_M=57.23$   $\tau=91.17$   $\tau_{max}=91.17$   
 Tensioni:  $\sigma_N=211.23$   $\sigma_M=586.43$   $\tau=34.15$   $\sigma_{ID,max}=799.85$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3



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Sollecitazioni:  $N=1559.77$   $T_z=142.15$   $M_y=-16.62$   $T_y=-135.09$   $M_z=58.75$   $M_x=-13.76$

Tensioni:  $\sigma_N=119.98$   $\sigma_M=306.75$   $\tau=33.35$   $\sigma_{max}=426.73$

Tensioni:  $\sigma_N=119.98$   $\sigma_M=51.44$   $\tau=60.24$   $\tau_{max}=60.24$

Tensioni:  $\sigma_N=119.98$   $\sigma_M=306.75$   $\tau=33.35$   $\sigma_{ID,max}=430.63$

Asta n. 4677 (-2569 -3011) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3440)

- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3084)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2748.69$   $T_z=295.21$   $M_y=-83.73$   $T_y=-286.13$   $M_z=60.30$   $M_x=-14.09$   
Tensioni:  $\sigma_N=183.25$   $\sigma_M=423.07$   $\tau=26.96$   $\sigma_{max}=606.32$   
Tensioni:  $\sigma_N=183.25$   $\sigma_M=192.00$   $\tau=83.02$   $\tau_{max}=83.02$   
Tensioni:  $\sigma_N=183.25$   $\sigma_M=423.07$   $\tau=26.96$   $\sigma_{ID,max}=608.11$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.22$   
Sollecitazioni:  $N=1590.56$   $T_z=199.67$   $M_y=-96.74$   $T_y=-134.80$   $M_z=19.18$   
 $V_{,Ed}=-134.80$   $V_{c,Rd,Red}=10773.80$   $V_{,Ed/V_{c,Rd,Red}}=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V_{,Ed}=199.67$   $V_{c,Rd,Red}=17956.30$   $V_{,Ed/V_{c,Rd,Red}}=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1561.98$   $T_z=141.92$   $M_y=-33.65$   $T_y=-134.94$   $M_z=28.95$   $M_x=-13.76$   
Tensioni:  $\sigma_N=104.13$   $\sigma_M=186.44$   $\tau=26.33$   $\sigma_{max}=290.57$   
Tensioni:  $\sigma_N=104.13$   $\sigma_M=77.16$   $\tau=52.76$   $\tau_{max}=52.76$   
Tensioni:  $\sigma_N=104.13$   $\sigma_M=186.44$   $\tau=26.33$   $\sigma_{ID,max}=294.13$

Asta n. 4677 (-3011 -4998) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=2756.40$   $T_z=291.53$   $M_y=-221.69$   $T_y=-285.41$   $M_z=-73.96$   $M_x=-14.12$   
Tensioni:  $\sigma_N=145.07$   $\sigma_M=503.88$   $\tau=16.37$   $\sigma_{max}=648.96$   
Tensioni:  $\sigma_N=145.07$   $\sigma_M=324.64$   $\tau=57.76$   $\tau_{max}=57.76$   
Tensioni:  $\sigma_N=145.07$   $\sigma_M=503.88$   $\tau=16.37$   $\sigma_{ID,max}=649.58$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU  $X_l=0.00$   
Sollecitazioni:  $N=1590.59$   $T_z=199.71$   $M_y=-96.74$   $T_y=-134.38$   $M_z=19.16$   
 $V_{,Ed}=-134.38$   $V_{c,Rd,Red}=14666.70$   $V_{,Ed/V_{c,Rd,Red}}=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V_{,Ed}=199.71$   $V_{c,Rd,Red}=22000.10$   $V_{,Ed/V_{c,Rd,Red}}=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.25$  - Classe 3  
Sollecitazioni:  $N=1567.92$   $T_z=139.98$   $M_y=-98.78$   $T_y=-134.45$   $M_z=-34.34$   $M_x=-13.76$   
Tensioni:  $\sigma_N=82.52$   $\sigma_M=227.33$   $\tau=15.96$   $\sigma_{max}=309.85$   
Tensioni:  $\sigma_N=82.52$   $\sigma_M=144.66$   $\tau=35.45$   $\tau_{max}=35.45$   
Tensioni:  $\sigma_N=82.52$   $\sigma_M=227.33$   $\tau=15.96$   $\sigma_{ID,max}=311.08$

Asta n. 4677 (-4998 -5913) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=2883.99$   $T_z=-395.83$   $M_y=-213.78$   $T_y=-246.80$   $M_z=-76.46$   $M_x=-12.67$   
Tensioni:  $\sigma_N=151.79$   $\sigma_M=496.32$   $\tau=14.69$   $\sigma_{max}=648.11$   
Tensioni:  $\sigma_N=151.79$   $\sigma_M=-135.44$   $\tau=54.92$   $\tau_{max}=54.92$   
Tensioni:  $\sigma_N=151.79$   $\sigma_M=496.32$   $\tau=14.69$   $\sigma_{ID,max}=648.61$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1515.55$   $T_z=-150.89$   $M_y=-95.53$   $T_y=-115.41$   $M_z=-35.69$   $M_x=-12.70$   
Tensioni:  $\sigma_N=79.77$   $\sigma_M=224.86$   $\tau=14.72$   $\sigma_{max}=304.63$   
Tensioni:  $\sigma_N=79.77$   $\sigma_M=139.90$   $\tau=31.46$   $\tau_{max}=31.46$   
Tensioni:  $\sigma_N=79.77$   $\sigma_M=224.86$   $\tau=14.72$   $\sigma_{ID,max}=305.69$

Asta n. 4677 (-5913 -6971) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

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Sollecitazioni: N,Ed=-802.22 My,Ed=-132.45 Mz,Ed=-70.17  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=7.12  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.60$  Ncr,y=153614000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.21$  Ncr,z=80812000.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.05+0.04=0.10  
Verifica ZZ: 0.01+0.04+0.04=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2887.75 Tz=-638.44 My=-185.80 Ty=-245.91 Mz=-96.08 Mx=-12.75  
Tensioni:  $\sigma_N=151.99$   $\sigma_M=491.32$   $\tau=14.79$   $\sigma_{max}=643.31$   
Tensioni:  $\sigma_N=151.99$   $\sigma_M=-170.19$   $\tau=79.63$   $\tau_{max}=79.63$   
Tensioni:  $\sigma_N=151.99$   $\sigma_M=491.32$   $\tau=14.79$   $\sigma_{ID,max}=643.82$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1465.04 Tz=-251.41 My=-84.92 Ty=-115.31 Mz=-44.82 Mx=-12.74  
Tensioni:  $\sigma_N=77.11$   $\sigma_M=226.41$   $\tau=14.78$   $\sigma_{max}=303.52$   
Tensioni:  $\sigma_N=77.11$   $\sigma_M=-79.40$   $\tau=40.31$   $\tau_{max}=40.31$   
Tensioni:  $\sigma_N=77.11$   $\sigma_M=226.41$   $\tau=14.78$   $\sigma_{ID,max}=304.60$

Asta n. 4677 (-6971 -7991) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1762.04 My,Ed=-76.90 Mz,Ed=-82.10  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=7.12  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.60$  Ncr,y=153614000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.21$  Ncr,z=80811800.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.03+0.05=0.10  
Verifica ZZ: 0.03+0.02+0.05=0.10

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2749.86 Tz=-773.90 My=-139.48 Ty=-243.09 Mz=-115.88 Mx=-12.90  
Tensioni:  $\sigma_N=144.73$   $\sigma_M=457.41$   $\tau=14.96$   $\sigma_{max}=602.14$   
Tensioni:  $\sigma_N=144.73$   $\sigma_M=-205.27$   $\tau=93.54$   $\tau_{max}=93.54$   
Tensioni:  $\sigma_N=144.73$   $\sigma_M=457.41$   $\tau=14.96$   $\sigma_{ID,max}=602.70$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.04  
Sollecitazioni: N=1028.73 Tz=-158.68 Ty=-97.82 Mz=-52.17 Mx=-19.69  
V,Ed=-97.82 Vc,Rd,Red=14662.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-158.68 Vc,Rd,Red=21993.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=1339.92 Tz=-315.74 My=-67.06 Ty=-114.15 Mz=-54.10 Mx=-12.79  
Tensioni:  $\sigma_N=70.52$   $\sigma_M=216.65$   $\tau=14.83$   $\sigma_{max}=287.17$   
Tensioni:  $\sigma_N=70.52$   $\sigma_M=-95.83$   $\tau=46.89$   $\tau_{max}=46.89$   
Tensioni:  $\sigma_N=70.52$   $\sigma_M=216.65$   $\tau=14.83$   $\sigma_{ID,max}=288.32$

Asta n. 4677 (-7991 -8789) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-1857.56 My,Ed=-20.02 Mz,Ed=-90.85  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$  Ncr,y=273093000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr,z=143666000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.03+0.01+0.05=0.09  
Verifica ZZ: 0.03+0.01+0.05=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=2837.83 Tz=-554.51 My=-89.38 Ty=-215.45 Mz=-136.08 Mx=-12.75  
Tensioni:  $\sigma_N=149.36$   $\sigma_M=418.27$   $\tau=14.78$   $\sigma_{max}=567.63$   
Tensioni:  $\sigma_N=149.36$   $\sigma_M=-241.05$   $\tau=71.10$   $\tau_{max}=71.10$   
Tensioni:  $\sigma_N=149.36$   $\sigma_M=418.27$   $\tau=14.78$   $\sigma_{ID,max}=568.21$

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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.03$   
Sollecitazioni:  $N=-1857.03$   $T_z=-674.05$   $T_y=-132.48$   $M_z=-87.63$   $M_x=-14.85$   
 $V,Ed=-132.48$   $V_c,Rd,Red=14704.70$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-674.05$   $V_c,Rd,Red=22057.10$   $V,Ed/V_c,Rd,Red=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=1320.09$   $T_z=-241.22$   $M_y=-46.26$   $T_y=-101.72$   $M_z=-63.57$   $M_x=-12.68$   
Tensioni:  $\sigma_N=69.48$   $\sigma_M=202.60$   $\tau=14.70$   $\sigma_{max}=272.08$   
Tensioni:  $\sigma_N=69.48$   $\sigma_M=-112.61$   $\tau=39.20$   $\tau_{max}=39.20$   
Tensioni:  $\sigma_N=69.48$   $\sigma_M=202.60$   $\tau=14.70$   $\sigma_{ID,max}=273.27$

Asta n. 4677 (-8789 -9572) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1854.24$   $M_y,Ed=23.28$   $M_z,Ed=-100.06$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=5.34$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$   $N_{cr,y}=273087000.00$   $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$   $N_{cr,z}=143663000.00$   $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.01+0.06=0.09$   
Verifica ZZ:  $0.03+0.01+0.06=0.09$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.05$  - Classe 3  
Sollecitazioni:  $N=2893.25$   $T_z=-272.69$   $M_y=-45.10$   $T_y=-244.91$   $M_z=-162.66$   $M_x=-13.41$   
Tensioni:  $\sigma_N=152.28$   $\sigma_M=401.36$   $\tau=15.55$   $\sigma_{max}=553.64$   
Tensioni:  $\sigma_N=152.28$   $\sigma_M=66.05$   $\tau=51.07$   $\tau_{max}=51.07$   
Tensioni:  $\sigma_N=152.28$   $\sigma_M=401.36$   $\tau=15.55$   $\sigma_{ID,max}=554.29$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X_l=0.00$   
Sollecitazioni:  $N=1028.27$   $T_z=8.49$   $T_y=-86.10$   $M_z=-52.57$   $M_x=-9.00$   
 $V,Ed=-86.10$   $V_c,Rd,Red=14756.30$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=8.49$   $V_c,Rd,Red=22134.50$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.05$  - Classe 3  
Sollecitazioni:  $N=1319.36$   $T_z=-124.46$   $M_y=-27.95$   $T_y=-115.71$   $M_z=-76.11$   $M_x=-12.91$   
Tensioni:  $\sigma_N=69.44$   $\sigma_M=198.73$   $\tau=14.97$   $\sigma_{max}=268.17$   
Tensioni:  $\sigma_N=69.44$   $\sigma_M=40.93$   $\tau=31.75$   $\tau_{max}=31.75$   
Tensioni:  $\sigma_N=69.44$   $\sigma_M=198.73$   $\tau=14.97$   $\sigma_{ID,max}=269.42$

Asta n. 4677 (-9572 -12534) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2461.77$   $M_y,Ed=21.71$   $M_z,Ed=-110.72$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.48$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.13$   $N_{cr,y}=86577100.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=2.94$   $N_{cr,z}=45545700.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.04+0.01+0.06=0.11$   
Verifica ZZ:  $0.04+0.01+0.06=0.11$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.09$  - Classe 3  
Sollecitazioni:  $N=2601.90$   $T_z=-162.41$   $M_y=-31.22$   $T_y=-144.36$   $M_z=-181.65$   $M_x=-9.56$   
Tensioni:  $\sigma_N=136.94$   $\sigma_M=417.62$   $\tau=11.09$   $\sigma_{max}=554.57$   
Tensioni:  $\sigma_N=136.94$   $\sigma_M=45.72$   $\tau=32.02$   $\tau_{max}=32.02$   
Tensioni:  $\sigma_N=136.94$   $\sigma_M=417.62$   $\tau=11.09$   $\sigma_{ID,max}=554.90$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-2460.83$   $T_z=431.27$   $T_y=-76.77$   $M_z=-107.41$   $M_x=-12.42$   
 $V,Ed=-76.77$   $V_c,Rd,Red=14726.10$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=431.27$   $V_c,Rd,Red=22089.20$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.09$  - Classe 3  
 Sollecitazioni:  $N=1167.22$   $T_z=-75.10$   $M_y=-24.16$   $T_y=-73.19$   $M_z=-85.10$   $M_x=-10.95$   
 Tensioni:  $\sigma_N=61.43$   $\sigma_M=210.88$   $\tau=12.70$   $\sigma_{max}=272.31$   
 Tensioni:  $\sigma_N=61.43$   $\sigma_M=35.38$   $\tau=23.31$   $\tau_{max}=23.31$   
 Tensioni:  $\sigma_N=61.43$   $\sigma_M=210.88$   $\tau=12.70$   $\sigma_{ID,max}=273.20$

Asta n. 4998 (3501 -10359) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-158.03$   $M_y,Ed=172.57$   $M_z,Ed=23.14$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.21+0.03=0.25$   
 Verifica ZZ:  $0.01+0.17+0.03=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=6784.84$   $T_z=170.28$   $M_y=57.27$   $T_y=-197.84$   $M_z=-18.75$   $M_x=-43.97$   
 Tensioni:  $\sigma_N=557.96$   $\sigma_M=259.03$   $\tau=95.16$   $\sigma_{max}=817.00$   
 Tensioni:  $\sigma_N=557.96$   $\sigma_M=-175.63$   $\tau=131.72$   $\tau_{max}=131.72$   
 Tensioni:  $\sigma_N=557.96$   $\sigma_M=259.03$   $\tau=95.16$   $\sigma_{ID,max}=833.46$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_1=0.10$   
 Sollecitazioni:  $N=-158.01$   $T_z=359.55$   $M_y=138.09$   $T_y=-233.00$   $M_x=-67.34$   
 $V,Ed=-233.00$   $V_c,Rd,Red=6970.52$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=359.55$   $V_c,Rd,Red=6970.52$   $V,Ed/V_c,Rd,Red=0.05$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-96.67$   $T_z=139.42$   $M_y=66.09$   $T_y=-94.24$   $M_z=10.43$   $M_x=-19.84$   
 Tensioni:  $\sigma_N=-7.95$   $\sigma_M=-260.75$   $\tau=42.93$   $\sigma_{max}=-268.70$   
 Tensioni:  $\sigma_N=-7.95$   $\sigma_M=-32.00$   $\tau=68.69$   $\tau_{max}=68.69$   
 Tensioni:  $\sigma_N=-7.95$   $\sigma_M=-257.20$   $\tau=55.13$   $\sigma_{ID,max}=281.82$

Asta n. 4998 (-10359 -10440) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-99.04$   $M_y,Ed=123.72$   $M_z,Ed=-4.06$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.15+0.01=0.16$   
 Verifica ZZ:  $0.00+0.12+0.01=0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=7633.29$   $T_z=128.18$   $M_y=49.42$   $T_y=61.02$   $M_z=-20.75$   $M_x=-46.77$   
 Tensioni:  $\sigma_N=627.74$   $\sigma_M=239.09$   $\tau=101.22$   $\sigma_{max}=866.82$   
 Tensioni:  $\sigma_N=627.74$   $\sigma_M=63.62$   $\tau=124.89$   $\tau_{max}=124.89$   
 Tensioni:  $\sigma_N=627.74$   $\sigma_M=239.09$   $\tau=101.22$   $\sigma_{ID,max}=884.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-149.09$   $T_z=323.02$   $M_y=119.92$   $T_y=-36.41$   $M_x=-72.19$   
 $V,Ed=-36.41$   $V_c,Rd,Red=6906.73$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=323.02$   $V_c,Rd,Red=6906.73$   $V,Ed/V_c,Rd,Red=0.05$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-106.75$   $T_z=124.67$   $M_y=46.56$   $T_y=-24.72$   $M_z=-2.58$   $M_x=-21.53$   
 Tensioni:  $\sigma_N=-8.78$   $\sigma_M=-167.44$   $\tau=46.60$   $\sigma_{max}=-176.22$   
 Tensioni:  $\sigma_N=-8.78$   $\sigma_M=7.90$   $\tau=69.63$   $\tau_{max}=69.63$   
 Tensioni:  $\sigma_N=-8.78$   $\sigma_M=-166.56$   $\tau=49.80$   $\sigma_{ID,max}=195.41$

Asta n. 4998 (-10440 -10498) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -114.06$  My,  $Ed = 76.83$  Mz,  $Ed = -4.13$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25463300.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25463300.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00 + 0.09 + 0.01 = 0.10$   
 Verifica ZZ:  $0.00 + 0.08 + 0.01 = 0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 7963.39$   $T_z = 116.99$   $M_y = 30.39$   $T_y = 77.76$   $M_z = -16.24$   $M_x = -47.21$   
 Tensioni:  $\sigma_N = 654.88$   $\sigma_M = 158.89$   $\tau = 102.16$   $\sigma_{max} = 813.77$   
 Tensioni:  $\sigma_N = 654.88$   $\sigma_M = 49.80$   $\tau = 123.77$   $\tau_{max} = 123.77$   
 Tensioni:  $\sigma_N = 654.88$   $\sigma_M = 158.89$   $\tau = 102.16$   $\sigma_{ID, max} = 832.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 107 SLU  $X_l = 0.09$   
 Sollecitazioni:  $N = 9.45$   $T_z = 90.14$   $M_y = 21.48$   $T_y = 1.26$   $M_x = -20.01$   
 $V, Ed = 1.26$   $V_c, Rd, Red = 7593.31$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 90.14$   $V_c, Rd, Red = 7593.31$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 87.05$   $T_z = 97.68$   $M_y = 30.48$   $T_y = 14.23$   $M_z = -2.52$   $M_x = -22.55$   
 Tensioni:  $\sigma_N = 7.16$   $\sigma_M = 112.46$   $\tau = 48.79$   $\sigma_{max} = 119.61$   
 Tensioni:  $\sigma_N = 7.16$   $\sigma_M = 7.74$   $\tau = 66.83$   $\tau_{max} = 66.83$   
 Tensioni:  $\sigma_N = 7.16$   $\sigma_M = 102.07$   $\tau = 61.44$   $\sigma_{ID, max} = 152.50$

Asta n. 4998 (-10498 -10588) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -134.86$  My,  $Ed = 39.12$  Mz,  $Ed = -3.02$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25463300.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25463300.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00 + 0.05 + 0.00 = 0.06$   
 Verifica ZZ:  $0.00 + 0.04 + 0.00 = 0.05$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 8073.87$   $T_z = 71.67$   $M_y = 14.05$   $T_y = 57.29$   $M_z = -10.60$   $M_x = -45.54$   
 Tensioni:  $\sigma_N = 663.97$   $\sigma_M = 83.99$   $\tau = 98.54$   $\sigma_{max} = 747.96$   
 Tensioni:  $\sigma_N = 663.97$   $\sigma_M = 32.50$   $\tau = 111.78$   $\tau_{max} = 111.78$   
 Tensioni:  $\sigma_N = 663.97$   $\sigma_M = 83.99$   $\tau = 98.54$   $\sigma_{ID, max} = 767.19$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -132.18$   $T_z = 193.72$   $M_y = 16.27$   $T_y = 12.09$   $M_x = -73.97$   
 $V, Ed = 12.09$   $V_c, Rd, Red = 6883.25$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 193.72$   $V_c, Rd, Red = 6883.25$   $V, Ed/V_c, Rd, Red = 0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -185.56$   $T_z = 74.55$   $M_y = 18.76$   $T_y = -1.31$   $M_x = -22.78$   
 Tensioni:  $\sigma_N = -15.26$   $\sigma_M = -63.93$   $\tau = 49.31$   $\sigma_{max} = -79.19$   
 Tensioni:  $\sigma_N = -15.26$   $\sigma_M = -0.00$   $\tau = 63.08$   $\tau_{max} = 63.08$   
 Tensioni:  $\sigma_N = -15.26$   $\sigma_M = -57.54$   $\tau = 58.96$   $\sigma_{ID, max} = 125.41$

Asta n. 4998 (-10588 -10700) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3  
 Sollecitazioni:  $N, Ed = -230.81$  My,  $Ed = 9.70$  Mz,  $Ed = -0.73$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25463300.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25463300.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01 + 0.01 + 0.00 = 0.02$

Verifica ZZ:  $0.01+0.01+0.00=0.02$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=8086.65$   $T_z=59.79$   $M_y=3.74$   $T_y=37.64$   $M_z=-6.63$   $M_x=-42.20$   
 Tensioni:  $\sigma_N=665.02$   $\sigma_M=35.32$   $\tau=91.33$   $\sigma_{max}=700.34$   
 Tensioni:  $\sigma_N=665.02$   $\sigma_M=20.32$   $\tau=102.38$   $\tau_{max}=102.38$   
 Tensioni:  $\sigma_N=665.02$   $\sigma_M=34.04$   $\tau=99.08$   $\sigma_{ID,max}=719.82$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=-152.07$   $T_z=152.35$   $T_y=12.47$   $M_x=-54.70$   
 $V,Ed=12.47$   $Vc,Rd,Red=7136.90$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=152.35$   $Vc,Rd,Red=7136.90$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-230.81$   $T_z=58.79$   $M_y=9.70$   $T_y=-1.13$   $M_x=-22.32$   
 Tensioni:  $\sigma_N=-18.98$   $\sigma_M=-33.06$   $\tau=48.30$   $\sigma_{max}=-52.04$   
 Tensioni:  $\sigma_N=-18.98$   $\sigma_M=0.00$   $\tau=59.16$   $\tau_{max}=59.16$   
 Tensioni:  $\sigma_N=-18.98$   $\sigma_M=-29.75$   $\tau=55.92$   $\sigma_{ID,max}=108.42$

Asta n. 4998 (-10700 -10784) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-169.16$   $M_y,Ed=-23.33$   $M_z,Ed=-1.07$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.00=0.04$   
 Verifica ZZ:  $0.01+0.02+0.00=0.03$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=8057.58$   $T_z=32.42$   $M_y=-7.53$   $T_y=26.39$   $M_z=-1.79$   $M_x=-38.05$   
 Tensioni:  $\sigma_N=662.63$   $\sigma_M=31.78$   $\tau=82.34$   $\sigma_{max}=694.40$   
 Tensioni:  $\sigma_N=662.63$   $\sigma_M=5.49$   $\tau=88.33$   $\tau_{max}=88.33$   
 Tensioni:  $\sigma_N=662.63$   $\sigma_M=31.78$   $\tau=82.34$   $\sigma_{ID,max}=708.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.01$   
 Sollecitazioni:  $N=-169.16$   $T_z=122.57$   $M_y=-12.59$   $T_y=9.02$   $M_x=-49.79$   
 $V,Ed=9.02$   $Vc,Rd,Red=7201.44$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=122.57$   $Vc,Rd,Red=7201.44$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-276.16$   $T_z=57.69$   $M_y=-8.88$   $T_y=-1.42$   $M_x=-21.26$   
 Tensioni:  $\sigma_N=-22.71$   $\sigma_M=-30.27$   $\tau=46.02$   $\sigma_{max}=-52.98$   
 Tensioni:  $\sigma_N=-22.71$   $\sigma_M=0.00$   $\tau=56.67$   $\tau_{max}=56.67$   
 Tensioni:  $\sigma_N=-22.71$   $\sigma_M=-27.24$   $\tau=53.49$   $\sigma_{ID,max}=105.25$

Asta n. 4998 (-10784 -10842) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-191.61$   $M_y,Ed=-39.08$   $M_z,Ed=-0.68$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.05+0.00=0.06$   
 Verifica ZZ:  $0.01+0.04+0.00=0.05$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.09$  - Classe 3  
 Sollecitazioni:  $N=8013.57$   $T_z=35.25$   $M_y=-12.29$   $T_y=23.90$   $M_z=-1.05$   $M_x=-33.43$   
 Tensioni:  $\sigma_N=659.01$   $\sigma_M=45.47$   $\tau=72.34$   $\sigma_{max}=704.48$   
 Tensioni:  $\sigma_N=659.01$   $\sigma_M=3.22$   $\tau=78.85$   $\tau_{max}=78.85$   
 Tensioni:  $\sigma_N=659.01$   $\sigma_M=45.47$   $\tau=72.34$   $\sigma_{ID,max}=715.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-71.09$   $T_z=113.04$   $M_y=-28.27$   $T_y=7.09$   $M_x=-37.10$   
 $V,Ed=7.09$   $V_c,Rd,Red=7368.49$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=113.04$   $V_c,Rd,Red=7368.49$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-320.94$   $T_z=66.09$   $M_y=-14.64$   $T_y=5.96$   $M_x=-19.93$   
 Tensioni:  $\sigma_N=-26.39$   $\sigma_M=-49.89$   $\tau=43.13$   $\sigma_{max}=-76.28$   
 Tensioni:  $\sigma_N=-26.39$   $\sigma_M=0.00$   $\tau=55.34$   $\tau_{max}=55.34$   
 Tensioni:  $\sigma_N=-26.39$   $\sigma_M=-44.90$   $\tau=51.69$   $\sigma_{ID,max}=114.44$

Asta n. 4998 (-10842 -10927) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-228.49$   $M_y,Ed=-55.15$   $M_z,Ed=1.17$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.07+0.00=0.08$   
 Verifica ZZ:  $0.01+0.05+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=7964.37$   $T_z=23.58$   $M_y=-16.29$   $T_y=37.23$   $M_z=1.16$   $M_x=-29.38$   
 Tensioni:  $\sigma_N=654.97$   $\sigma_M=59.48$   $\tau=63.59$   $\sigma_{max}=714.45$   
 Tensioni:  $\sigma_N=654.97$   $\sigma_M=-49.97$   $\tau=70.46$   $\tau_{max}=70.46$   
 Tensioni:  $\sigma_N=654.97$   $\sigma_M=59.48$   $\tau=63.59$   $\sigma_{ID,max}=722.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-97.91$   $T_z=125.48$   $M_y=-44.98$   $T_y=18.02$   $M_x=-30.78$   
 $V,Ed=18.02$   $V_c,Rd,Red=7451.54$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=125.48$   $V_c,Rd,Red=7451.54$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-361.61$   $T_z=83.91$   $M_y=-26.37$   $T_y=7.77$   $M_x=-18.55$   
 Tensioni:  $\sigma_N=-29.74$   $\sigma_M=-89.86$   $\tau=40.15$   $\sigma_{max}=-119.60$   
 Tensioni:  $\sigma_N=-29.74$   $\sigma_M=0.00$   $\tau=55.65$   $\tau_{max}=55.65$   
 Tensioni:  $\sigma_N=-29.74$   $\sigma_M=-80.87$   $\tau=51.02$   $\sigma_{ID,max}=141.57$

Asta n. 4998 (-10927 -10991) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-204.83$   $M_y,Ed=-77.27$   $M_z,Ed=3.71$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.09+0.01=0.11$   
 Verifica ZZ:  $0.01+0.08+0.01=0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=7933.48$   $T_z=45.37$   $M_y=-22.37$   $T_y=91.71$   $M_z=7.48$   $M_x=-26.07$   
 Tensioni:  $\sigma_N=652.42$   $\sigma_M=101.70$   $\tau=56.42$   $\sigma_{max}=754.13$   
 Tensioni:  $\sigma_N=652.42$   $\sigma_M=-68.60$   $\tau=73.36$   $\tau_{max}=73.36$   
 Tensioni:  $\sigma_N=652.42$   $\sigma_M=101.70$   $\tau=56.42$   $\sigma_{ID,max}=760.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-204.83$   $T_z=139.41$   $M_y=-63.70$   $T_y=33.73$   $M_x=-25.78$   
 $V,Ed=33.73$   $V_c,Rd,Red=7517.43$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=139.41$   $V_c,Rd,Red=7517.43$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

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Sollecitazioni:  $N=-388.38$   $T_z=102.14$   $M_y=-41.11$   $T_y=17.19$   $M_z=1.93$   $M_x=-17.55$

Tensioni:  $\sigma_N=-31.94$   $\sigma_M=-146.69$   $\tau=37.97$   $\sigma_{max}=-178.63$

Tensioni:  $\sigma_N=-31.94$   $\sigma_M=-5.92$   $\tau=56.84$   $\tau_{max}=56.84$

Tensioni:  $\sigma_N=-31.94$   $\sigma_M=-146.03$   $\tau=40.20$   $\sigma_{ID,max}=191.10$

Asta n. 4998 (-10991 -11069) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-373.80$   $M_y,Ed=-103.19$   $M_z,Ed=1.22$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.01+0.13+0.00=0.14$

Verifica ZZ:  $0.01+0.10+0.00=0.12$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=7906.57$   $T_z=31.88$   $M_y=-27.52$   $T_y=233.71$   $M_z=26.09$   $M_x=-23.88$

Tensioni:  $\sigma_N=650.21$   $\sigma_M=182.69$   $\tau=51.69$   $\sigma_{max}=832.91$

Tensioni:  $\sigma_N=650.21$   $\sigma_M=-84.40$   $\tau=94.86$   $\tau_{max}=94.86$

Tensioni:  $\sigma_N=650.21$   $\sigma_M=182.69$   $\tau=51.69$   $\sigma_{ID,max}=837.70$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.06$

Sollecitazioni:  $N=-373.78$   $T_z=175.14$   $M_y=-96.98$   $T_y=-3.90$   $M_x=-22.06$

$V,Ed=-3.90$   $V_c,Rd,Red=7566.29$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=175.14$   $V_c,Rd,Red=7566.29$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-388.16$   $T_z=124.72$   $M_y=-59.85$   $T_y=30.08$   $M_z=2.90$   $M_x=-16.95$

Tensioni:  $\sigma_N=-31.92$   $\sigma_M=-213.82$   $\tau=36.68$   $\sigma_{max}=-245.74$

Tensioni:  $\sigma_N=-31.92$   $\sigma_M=-8.89$   $\tau=59.72$   $\tau_{max}=59.72$

Tensioni:  $\sigma_N=-31.92$   $\sigma_M=-212.83$   $\tau=40.58$   $\sigma_{ID,max}=254.64$

Asta n. 4998 (-11069 -11134) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 89 SLU - Classe 3

Sollecitazioni:  $N,Ed=-888.06$   $M_y,Ed=73.43$   $M_z,Ed=13.29$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.03+0.09+0.02=0.14$

Verifica ZZ:  $0.03+0.07+0.02=0.12$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=7492.47$   $T_z=68.69$   $M_y=39.02$   $T_y=140.94$   $M_z=-18.32$   $M_x=-43.80$

Tensioni:  $\sigma_N=616.16$   $\sigma_M=195.39$   $\tau=94.78$   $\sigma_{max}=811.54$

Tensioni:  $\sigma_N=616.16$   $\sigma_M=119.66$   $\tau=120.82$   $\tau_{max}=120.82$

Tensioni:  $\sigma_N=616.16$   $\sigma_M=189.15$   $\tau=113.03$   $\sigma_{ID,max}=828.76$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.08$

Sollecitazioni:  $N=-1054.86$   $T_z=120.12$   $M_y=67.71$   $T_y=-13.35$   $M_x=-50.13$

$V,Ed=-13.35$   $V_c,Rd,Red=7196.96$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=120.12$   $V_c,Rd,Red=7196.96$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-470.57$   $T_z=51.14$   $M_y=38.85$   $T_y=-42.35$   $M_z=5.41$   $M_x=-29.27$

Tensioni:  $\sigma_N=-38.70$   $\sigma_M=-150.82$   $\tau=63.35$   $\sigma_{max}=-189.52$

Tensioni:  $\sigma_N=-38.70$   $\sigma_M=-16.58$   $\tau=72.80$   $\tau_{max}=72.80$

Tensioni:  $\sigma_N=-38.70$   $\sigma_M=-148.98$   $\tau=68.83$   $\sigma_{ID,max}=222.34$

Asta n. 4998 (-11134 -11200) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3



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Sollecitazioni: N,Ed=-1160.25 My,Ed=59.25 Mz,Ed=-1.67  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.04+0.07+0.00=0.12  
Verifica ZZ: 0.04+0.06+0.00=0.10

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=7416.69 Tz=46.22 My=29.30 Ty=60.69 Mz=-7.79 Mx=-42.82  
Tensioni:  $\sigma_N=609.92$   $\sigma_M=126.38$   $\tau=92.67$   $\sigma_{max}=736.30$   
Tensioni:  $\sigma_N=609.92$   $\sigma_M=89.86$   $\tau=103.88$   $\tau_{max}=103.88$   
Tensioni:  $\sigma_N=609.92$   $\sigma_M=123.72$   $\tau=100.53$   $\sigma_{ID,max}=754.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.06  
Sollecitazioni: N=-1020.04 Tz=116.25 My=46.02 Ty=-32.52 Mz=-80.58  
V,Ed=-32.52 Vc,Rd,Red=6796.36 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=116.25 Vc,Rd,Red=6796.36 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-502.42 Tz=51.41 My=31.92 Ty=-19.29 Mz=-2.21 Mx=-29.15  
Tensioni:  $\sigma_N=-41.32$   $\sigma_M=-116.30$   $\tau=63.09$   $\sigma_{max}=-157.62$   
Tensioni:  $\sigma_N=-41.32$   $\sigma_M=6.79$   $\tau=72.58$   $\tau_{max}=72.58$   
Tensioni:  $\sigma_N=-41.32$   $\sigma_M=-115.55$   $\tau=65.59$   $\sigma_{ID,max}=193.68$

Asta n. 4998 (-11200 -11266) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-1256.02 My,Ed=40.34 Mz,Ed=-2.34  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.05+0.00=0.10  
Verifica ZZ: 0.05+0.04+0.00=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=7339.41 Tz=63.99 My=21.75 Ty=31.25 Mz=-3.74 Mx=-40.78  
Tensioni:  $\sigma_N=603.57$   $\sigma_M=86.87$   $\tau=88.24$   $\sigma_{max}=690.44$   
Tensioni:  $\sigma_N=603.57$   $\sigma_M=11.47$   $\tau=100.06$   $\tau_{max}=100.06$   
Tensioni:  $\sigma_N=603.57$   $\sigma_M=85.60$   $\tau=92.29$   $\sigma_{ID,max}=707.46$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.09  
Sollecitazioni: N=-1324.50 Tz=114.01 My=27.56 Ty=15.35 Mz=-58.29  
V,Ed=15.35 Vc,Rd,Red=7089.57 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=114.01 Vc,Rd,Red=7089.57 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-550.46 Tz=50.88 My=24.73 Ty=13.53 Mz=-1.29 Mx=-28.54  
Tensioni:  $\sigma_N=-45.27$   $\sigma_M=-88.66$   $\tau=61.75$   $\sigma_{max}=-133.93$   
Tensioni:  $\sigma_N=-45.27$   $\sigma_M=3.96$   $\tau=71.15$   $\tau_{max}=71.15$   
Tensioni:  $\sigma_N=-45.27$   $\sigma_M=-88.66$   $\tau=61.75$   $\sigma_{ID,max}=171.40$

Asta n. 4998 (-11266 -11338) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-1411.63 My,Ed=20.50 Mz,Ed=-1.48  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.03+0.00=0.08  
Verifica ZZ: 0.05+0.02+0.00=0.07

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7290.95$   $T_z=49.08$   $M_y=12.52$   $T_y=17.64$   $M_z=-2.02$   $M_x=-37.76$   
 Tensioni:  $\sigma_N=599.58$   $\sigma_M=49.54$   $\tau=81.71$   $\sigma_{max}=649.13$   
 Tensioni:  $\sigma_N=599.58$   $\sigma_M=6.20$   $\tau=90.78$   $\tau_{max}=90.78$   
 Tensioni:  $\sigma_N=599.58$   $\sigma_M=48.85$   $\tau=84.00$   $\sigma_{ID,max}=664.56$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=-1332.76$   $T_z=109.96$   $M_y=15.72$   $T_y=11.45$   $M_x=-43.26$   
 $V,Ed=11.45$   $Vc,Rd,Red=7287.41$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=109.96$   $Vc,Rd,Red=7287.41$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-607.75$   $T_z=49.77$   $M_y=17.66$   $T_y=-1.56$   $M_x=-27.17$   
 Tensioni:  $\sigma_N=-49.98$   $\sigma_M=-60.19$   $\tau=58.79$   $\sigma_{max}=-110.17$   
 Tensioni:  $\sigma_N=-49.98$   $\sigma_M=-0.00$   $\tau=67.98$   $\tau_{max}=67.98$   
 Tensioni:  $\sigma_N=-49.98$   $\sigma_M=-54.17$   $\tau=65.23$   $\sigma_{ID,max}=153.67$

Asta n. 4998 (-11338 -11404) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1485.70$   $M_y,Ed=-6.15$   $M_z,Ed=-0.76$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.01+0.00=0.06$   
 Verifica ZZ:  $0.05+0.01+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7246.32$   $T_z=64.18$   $M_y=4.84$   $T_y=11.70$   $M_z=-1.27$   $M_x=-33.15$   
 Tensioni:  $\sigma_N=595.91$   $\sigma_M=20.81$   $\tau=71.74$   $\sigma_{max}=616.72$   
 Tensioni:  $\sigma_N=595.91$   $\sigma_M=3.88$   $\tau=83.60$   $\tau_{max}=83.60$   
 Tensioni:  $\sigma_N=595.91$   $\sigma_M=19.16$   $\tau=80.06$   $\sigma_{ID,max}=630.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-1393.69$   $T_z=112.42$   $M_y=6.01$   $T_y=7.98$   $M_x=-37.51$   
 $V,Ed=7.98$   $Vc,Rd,Red=7363.03$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=112.42$   $Vc,Rd,Red=7363.03$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-665.29$   $T_z=53.39$   $M_y=10.68$   $T_y=-1.74$   $M_x=-25.18$   
 Tensioni:  $\sigma_N=-54.71$   $\sigma_M=-36.39$   $\tau=54.48$   $\sigma_{max}=-91.10$   
 Tensioni:  $\sigma_N=-54.71$   $\sigma_M=-0.00$   $\tau=64.35$   $\tau_{max}=64.35$   
 Tensioni:  $\sigma_N=-54.71$   $\sigma_M=-32.75$   $\tau=61.40$   $\sigma_{ID,max}=137.69$

Asta n. 4998 (-11404 -11474) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1553.84$   $M_y,Ed=-22.68$   $M_z,Ed=0.47$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.03+0.00=0.09$   
 Verifica ZZ:  $0.06+0.02+0.00=0.08$

- Verifica a pressoflessione retta - CC 54 SLU  $Xl=0.10$  - Classe 1  
 Sollecitazioni:  $N=-1553.82$   $T_z=111.18$   $M_y=-22.68$   $T_y=8.34$   $M_x=-41.58$   
 $M_y,Ed=-22.68$   $My,c,Rd=776.35$   
 $N,Ed=-1553.82$   $Nc,Rd=27215.20$   $n=N,Ed/Nc,Rd=0.06$   
 $MNy,c,Rd=776.35$   $My,Ed/MNy,c,Rd=0.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$

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Sollecitazioni:  $N=-1447.71$   $T_z=116.05$   $M_y=-10.70$   $T_y=6.21$   $M_x=-30.54$   
 $V,Ed=6.21$   $V_c,Rd,Red=7454.75$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=116.05$   $V_c,Rd,Red=7454.75$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-722.52$   $T_z=58.42$   $M_y=-10.73$   $T_y=7.05$   $M_x=-22.88$   
Tensioni:  $\sigma_N=-59.42$   $\sigma_M=-36.57$   $\tau=49.52$   $\sigma_{max}=-95.99$   
Tensioni:  $\sigma_N=-59.42$   $\sigma_M=0.00$   $\tau=60.31$   $\tau_{max}=60.31$   
Tensioni:  $\sigma_N=-59.42$   $\sigma_M=-32.91$   $\tau=57.08$   $\sigma_{ID,max}=135.27$

Asta n. 4998 (-11474 -11544) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1622.46$   $M_y,Ed=-42.67$   $M_z,Ed=0.90$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.06+0.05+0.00=0.11$   
Verifica ZZ:  $0.06+0.04+0.00=0.10$

- Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.10$  - Classe 1  
Sollecitazioni:  $N=-1622.44$   $T_z=139.75$   $M_y=-42.67$   $T_y=10.36$   $M_x=-33.55$   
 $M_y,Ed=-42.67$   $M_y,c,Rd=776.35$   
 $N,Ed=-1622.44$   $N_c,Rd=27215.20$   $n=N,Ed/N_c,Rd=0.06$   
 $MN_y,c,Rd=776.35$   $M_y,Ed/MN_y,c,Rd=0.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-1502.87$   $T_z=143.96$   $M_y=-28.42$   $T_y=8.23$   $M_x=-22.59$   
 $V,Ed=8.23$   $V_c,Rd,Red=7559.40$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=143.96$   $V_c,Rd,Red=7559.40$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-778.46$   $T_z=75.35$   $M_y=-15.85$   $T_y=8.21$   $M_z=1.29$   $M_x=-20.35$   
Tensioni:  $\sigma_N=-64.02$   $\sigma_M=-58.43$   $\tau=44.03$   $\sigma_{max}=-122.45$   
Tensioni:  $\sigma_N=-64.02$   $\sigma_M=-3.97$   $\tau=57.95$   $\tau_{max}=57.95$   
Tensioni:  $\sigma_N=-64.02$   $\sigma_M=-53.03$   $\tau=53.79$   $\sigma_{ID,max}=149.60$

Asta n. 4998 (-11544 -11614) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1700.62$   $M_y,Ed=-65.95$   $M_z,Ed=2.25$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.06+0.08+0.00=0.15$   
Verifica ZZ:  $0.06+0.06+0.00=0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=7110.95$   $T_z=84.42$   $M_y=-34.77$   $T_y=26.31$   $M_z=1.92$   $M_x=-17.67$   
Tensioni:  $\sigma_N=584.78$   $\sigma_M=125.05$   $\tau=38.24$   $\sigma_{max}=709.84$   
Tensioni:  $\sigma_N=584.78$   $\sigma_M=-5.90$   $\tau=53.84$   $\tau_{max}=53.84$   
Tensioni:  $\sigma_N=584.78$   $\sigma_M=125.05$   $\tau=38.24$   $\sigma_{ID,max}=712.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-1570.52$   $T_z=165.64$   $M_y=-50.17$   $T_y=19.44$   $M_x=-15.27$   
 $V,Ed=19.44$   $V_c,Rd,Red=7655.66$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=165.64$   $V_c,Rd,Red=7655.66$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-831.56$   $T_z=90.85$   $M_y=-27.80$   $T_y=12.38$   $M_z=1.93$   $M_x=-18.20$

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Tensioni:  $\sigma_N=-68.38$   $\sigma_M=-101.30$   $\tau=39.40$   $\sigma_{max}=-169.69$   
Tensioni:  $\sigma_N=-68.38$   $\sigma_M=-5.91$   $\tau=56.18$   $\tau_{max}=56.18$   
Tensioni:  $\sigma_N=-68.38$   $\sigma_M=-100.64$   $\tau=41.00$   $\sigma_{ID,max}=183.34$

Asta n. 4998 (-11614 -11686) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-1826.94 My,Ed=-97.36 Mz,Ed=4.95  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.12+0.01=0.19

Verifica ZZ: 0.07+0.10+0.01=0.17

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=7058.90 Tz=141.67 My=-54.46 Ty=56.54 Mz=5.72 Mx=-12.90

Tensioni:  $\sigma_N=580.50$   $\sigma_M=205.08$   $\tau=27.91$   $\sigma_{max}=785.58$

Tensioni:  $\sigma_N=580.50$   $\sigma_M=-17.55$   $\tau=54.08$   $\tau_{max}=54.08$

Tensioni:  $\sigma_N=580.50$   $\sigma_M=205.08$   $\tau=27.91$   $\sigma_{ID,max}=787.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00

Sollecitazioni: N=-1360.76 Tz=191.85 My=-63.20 Ty=12.56 Mz=-41.38

V,Ed=12.56 Vc,Rd,Red=7312.06 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=191.85 Vc,Rd,Red=7312.06 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-876.90 Tz=121.25 My=-44.84 Ty=25.32 Mz=3.53 Mx=-16.21

Tensioni:  $\sigma_N=-72.11$   $\sigma_M=-164.81$   $\tau=35.07$   $\sigma_{max}=-236.93$

Tensioni:  $\sigma_N=-72.11$   $\sigma_M=-10.81$   $\tau=57.47$   $\tau_{max}=57.47$

Tensioni:  $\sigma_N=-72.11$   $\sigma_M=-163.61$   $\tau=38.35$   $\sigma_{ID,max}=244.91$

Asta n. 4998 (-11686 -11752) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-1986.78 My,Ed=-134.45 Mz,Ed=3.50

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.16+0.01=0.24

Verifica ZZ: 0.07+0.13+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=7023.64 Tz=126.97 My=-73.95 Ty=136.12 Mz=16.20 Mx=-10.52

Tensioni:  $\sigma_N=577.60$   $\sigma_M=307.20$   $\tau=22.77$   $\sigma_{max}=884.80$

Tensioni:  $\sigma_N=577.60$   $\sigma_M=-226.80$   $\tau=47.94$   $\tau_{max}=47.94$

Tensioni:  $\sigma_N=577.60$   $\sigma_M=307.20$   $\tau=22.77$   $\sigma_{ID,max}=885.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00

Sollecitazioni: N=-1372.96 Tz=217.46 My=-93.55 Ty=-54.62 Mz=-27.30

V,Ed=-54.62 Vc,Rd,Red=7497.42 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=217.46 Vc,Rd,Red=7497.42 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-906.00 Tz=137.69 My=-65.31 Ty=59.39 Mz=7.89 Mx=-15.36

Tensioni:  $\sigma_N=-74.51$   $\sigma_M=-249.44$   $\tau=33.23$   $\sigma_{max}=-323.95$

Tensioni:  $\sigma_N=-74.51$   $\sigma_M=-24.21$   $\tau=58.67$   $\tau_{max}=58.67$

Tensioni:  $\sigma_N=-74.51$   $\sigma_M=-249.44$   $\tau=33.23$   $\sigma_{ID,max}=329.02$

Asta n. 4998 (-11752 -11818) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-2554.02 My,Ed=33.00 Mz,Ed=-6.48

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Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.09+0.04+0.01=0.14

Verifica ZZ: 0.09+0.03+0.01=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=6652.15 T<sub>z</sub>=33.17 M<sub>y</sub>=17.30 T<sub>y</sub>=97.42 M<sub>z</sub>=-12.59 M<sub>x</sub>=-29.23  
Tensioni:  $\sigma_N=547.05$   $\sigma_M=101.86$   $\tau=63.25$   $\sigma_{max}=648.91$   
Tensioni:  $\sigma_N=547.05$   $\sigma_M=53.06$   $\tau=81.24$   $\tau_{max}=81.24$   
Tensioni:  $\sigma_N=547.05$   $\sigma_M=101.86$   $\tau=63.25$   $\sigma_{ID,max}=658.10$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.09  
Sollecitazioni: N=-2554.00 T<sub>z</sub>=36.91 M<sub>y</sub>=29.67 T<sub>y</sub>=63.90 M<sub>z</sub>=-45.04  
V,Ed=63.90 Vc,Rd,Red=7264.02 V,Ed/Vc,Rd,Red=0.01
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=36.91 Vc,Rd,Red=7264.02 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1014.00 T<sub>z</sub>=31.27 M<sub>y</sub>=19.64 T<sub>y</sub>=67.72 M<sub>z</sub>=-7.50 M<sub>x</sub>=-22.16  
Tensioni:  $\sigma_N=-83.39$   $\sigma_M=-92.49$   $\tau=47.95$   $\sigma_{max}=-175.88$   
Tensioni:  $\sigma_N=-83.39$   $\sigma_M=60.23$   $\tau=60.46$   $\tau_{max}=60.46$   
Tensioni:  $\sigma_N=-83.39$   $\sigma_M=-92.49$   $\tau=47.95$   $\sigma_{ID,max}=194.50$

Asta n. 4998 (-11818 -11882) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2643.15 My,Ed=27.13 Mz,Ed=-2.53  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.03+0.00=0.13  
Verifica ZZ: 0.10+0.03+0.00=0.13
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=6569.93 M<sub>y</sub>=13.00 T<sub>y</sub>=43.95 M<sub>z</sub>=-5.39 M<sub>x</sub>=-28.03  
Tensioni:  $\sigma_N=540.29$   $\sigma_M=62.67$   $\tau=60.67$   $\sigma_{max}=602.96$   
Tensioni:  $\sigma_N=540.29$   $\sigma_M=44.30$   $\tau=68.78$   $\tau_{max}=68.78$   
Tensioni:  $\sigma_N=540.29$   $\sigma_M=62.67$   $\tau=60.67$   $\sigma_{ID,max}=612.05$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.09  
Sollecitazioni: N=-2643.13 T<sub>z</sub>=33.02 M<sub>y</sub>=24.15 T<sub>y</sub>=17.68 M<sub>z</sub>=-43.72  
V,Ed=17.68 Vc,Rd,Red=7281.39 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=33.02 Vc,Rd,Red=7281.39 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1029.34 T<sub>z</sub>=28.45 M<sub>y</sub>=15.60 T<sub>y</sub>=24.02 M<sub>z</sub>=-2.28 M<sub>x</sub>=-21.67  
Tensioni:  $\sigma_N=-84.65$   $\sigma_M=-60.91$   $\tau=46.89$   $\sigma_{max}=-145.56$   
Tensioni:  $\sigma_N=-84.65$   $\sigma_M=6.99$   $\tau=52.14$   $\tau_{max}=52.14$   
Tensioni:  $\sigma_N=-84.65$   $\sigma_M=-60.91$   $\tau=46.89$   $\sigma_{ID,max}=166.68$

Asta n. 4998 (-11882 -12009) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2713.03 My,Ed=20.77 Mz,Ed=-1.79  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.03+0.00=0.13  
Verifica ZZ: 0.10+0.02+0.00=0.12

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=6518.22$   $T_x=44.80$   $M_y=11.59$   $T_y=18.62$   $M_z=-2.20$   $M_x=-25.09$   
 Tensioni:  $\sigma_N=536.04$   $\sigma_M=46.98$   $\tau=54.29$   $\sigma_{max}=583.02$   
 Tensioni:  $\sigma_N=536.04$   $\sigma_M=6.74$   $\tau=62.56$   $\tau_{max}=62.56$   
 Tensioni:  $\sigma_N=536.04$   $\sigma_M=46.98$   $\tau=54.29$   $\sigma_{ID,max}=590.56$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.09$   
 Sollecitazioni:  $N=-2611.85$   $T_x=73.75$   $M_y=15.02$   $T_y=13.91$   $M_x=-30.85$   
 $V,Ed=13.91$   $Vc,Rd,Red=7450.66$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=73.75$   $Vc,Rd,Red=7450.66$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1062.70$   $T_x=35.10$   $M_y=12.41$   $T_y=-2.97$   $M_x=-20.22$   
 Tensioni:  $\sigma_N=-87.39$   $\sigma_M=-42.27$   $\tau=43.77$   $\sigma_{max}=-129.67$   
 Tensioni:  $\sigma_N=-87.39$   $\sigma_M=-0.00$   $\tau=50.25$   $\tau_{max}=50.25$   
 Tensioni:  $\sigma_N=-87.39$   $\sigma_M=-38.05$   $\tau=48.31$   $\sigma_{ID,max}=150.79$

Asta n. 4998 (-12009 -12097) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2759.00$   $My,Ed=10.51$   $Mz,Ed=-0.94$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.01+0.00=0.12$   
 Verifica ZZ:  $0.10+0.01+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=6491.79$   $T_x=27.05$   $M_y=5.33$   $T_y=10.74$   $M_z=-1.22$   $M_x=-21.97$   
 Tensioni:  $\sigma_N=533.86$   $\sigma_M=22.34$   $\tau=47.54$   $\sigma_{max}=556.21$   
 Tensioni:  $\sigma_N=533.86$   $\sigma_M=3.75$   $\tau=52.54$   $\tau_{max}=52.54$   
 Tensioni:  $\sigma_N=533.86$   $\sigma_M=22.34$   $\tau=47.54$   $\sigma_{ID,max}=562.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.04$   
 Sollecitazioni:  $N=-2647.72$   $T_x=66.07$   $M_y=8.14$   $T_y=8.91$   $M_x=-26.45$   
 $V,Ed=8.91$   $Vc,Rd,Red=7508.55$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=66.07$   $Vc,Rd,Red=7508.55$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1104.82$   $T_x=32.00$   $M_y=8.62$   $T_y=-2.59$   $M_x=-18.50$   
 Tensioni:  $\sigma_N=-90.86$   $\sigma_M=-29.37$   $\tau=40.04$   $\sigma_{max}=-120.23$   
 Tensioni:  $\sigma_N=-90.86$   $\sigma_M=-0.00$   $\tau=45.95$   $\tau_{max}=45.95$   
 Tensioni:  $\sigma_N=-90.86$   $\sigma_M=-26.44$   $\tau=44.18$   $\sigma_{ID,max}=140.05$

Asta n. 4998 (-12097 -12160) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2789.67$   $My,Ed=-8.06$   $Mz,Ed=-0.38$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.01+0.00=0.11$   
 Verifica ZZ:  $0.10+0.01+0.00=0.11$

- Verifica a trazione [4.2.5] - CC 45 SLU  $X_l=0.02$  - Classe 1  
 Sollecitazioni:  $N=6472.72$   $T_x=58.13$   $T_y=6.52$   $M_x=-17.00$   
 $N,Ed=6472.72$   $N_{pl},Rd=27215.20$   $Nu,Rd=31518.70$   $N,Ed/Nt,Rd=0.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2664.72$   $T_x=90.73$   $T_y=5.31$   $M_x=-19.81$   
 $V,Ed=5.31$   $Vc,Rd,Red=7595.94$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=90.73 Vc,Rd,Red=7595.94 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1147.58 T<sub>z</sub>=38.60 M<sub>y</sub>=-5.61 T<sub>y</sub>=-2.73 M<sub>z</sub>=1.03 M<sub>x</sub>=-16.00  
Tensioni:  $\sigma_N$ =-94.37  $\sigma_M$ =-22.63  $\tau$ =34.63  $\sigma_{max}$ =-117.00  
Tensioni:  $\sigma_N$ =-94.37  $\sigma_M$ =-3.16  $\tau$ =41.76  $\tau_{max}$ =41.76  
Tensioni:  $\sigma_N$ =-94.37  $\sigma_M$ =-20.72  $\tau$ =39.63  $\sigma_{ID,max}$ =134.00

Asta n. 4998 (-12160 -12234) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2812.60 M<sub>y</sub>,Ed=-22.09 M<sub>z</sub>,Ed=0.45  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.03+0.00=0.13  
Verifica ZZ: 0.10+0.02+0.00=0.13

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2672.80 T<sub>z</sub>=95.60 M<sub>y</sub>=-23.03 T<sub>y</sub>=3.98 M<sub>x</sub>=-12.78  
M<sub>y</sub>,Ed=-23.03 M<sub>y</sub>,c,Rd=776.35  
N,Ed=-2672.80 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
MN<sub>y</sub>,c,Rd=776.35 M<sub>y</sub>,Ed/MN<sub>y</sub>,c,Rd=0.03

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-2812.60 T<sub>z</sub>=96.28 M<sub>y</sub>=-12.74 T<sub>y</sub>=5.95 M<sub>x</sub>=-21.51  
V,Ed=5.95 Vc,Rd,Red=7573.54 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=96.28 Vc,Rd,Red=7573.54 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1189.80 T<sub>z</sub>=44.22 M<sub>y</sub>=-9.62 T<sub>y</sub>=6.37 M<sub>z</sub>=1.24 M<sub>x</sub>=-13.53  
Tensioni:  $\sigma_N$ =-97.85  $\sigma_M$ =-37.01  $\tau$ =29.28  $\sigma_{max}$ =-134.85  
Tensioni:  $\sigma_N$ =-97.85  $\sigma_M$ =-3.81  $\tau$ =37.44  $\tau_{max}$ =37.44  
Tensioni:  $\sigma_N$ =-97.85  $\sigma_M$ =-33.73  $\tau$ =35.00  $\sigma_{ID,max}$ =144.87

Asta n. 4998 (-12234 -12306) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2834.85 M<sub>y</sub>,Ed=-41.49 M<sub>z</sub>,Ed=0.72  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463300.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463300.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.05+0.00=0.16  
Verifica ZZ: 0.10+0.04+0.00=0.15

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2680.64 T<sub>z</sub>=134.72 M<sub>y</sub>=-42.03 T<sub>y</sub>=5.14 M<sub>x</sub>=-4.69  
M<sub>y</sub>,Ed=-42.03 M<sub>y</sub>,c,Rd=776.35  
N,Ed=-2680.64 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
MN<sub>y</sub>,c,Rd=776.35 M<sub>y</sub>,Ed/MN<sub>y</sub>,c,Rd=0.05

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-2834.85 T<sub>z</sub>=139.36 M<sub>y</sub>=-27.93 T<sub>y</sub>=7.26 M<sub>x</sub>=-13.25  
V,Ed=7.26 Vc,Rd,Red=7682.29 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=139.36 Vc,Rd,Red=7682.29 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1231.09 T<sub>z</sub>=63.37 M<sub>y</sub>=-16.30 T<sub>y</sub>=7.52 M<sub>z</sub>=1.56 M<sub>x</sub>=-10.77  
Tensioni:  $\sigma_N$ =-101.24  $\sigma_M$ =-60.83  $\tau$ =23.31  $\sigma_{max}$ =-162.07  
Tensioni:  $\sigma_N$ =-101.24  $\sigma_M$ =-4.77  $\tau$ =35.01  $\tau_{max}$ =35.01  
Tensioni:  $\sigma_N$ =-101.24  $\sigma_M$ =-60.83  $\tau$ =23.31  $\sigma_{ID,max}$ =167.03

Asta n. 4998 (-12306 -12374) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-2866.69 My,Ed=-64.75 Mz,Ed=1.88  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.08+0.00=0.19  
 Verifica ZZ: 0.11+0.06+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=6423.18 Tz=92.80 My=-39.61 Ty=19.47 Mz=1.54 Mx=-1.70  
 Tensioni:  $\sigma_N=528.22$   $\sigma_M=140.24$   $\tau=3.67$   $\sigma_{max}=668.46$   
 Tensioni:  $\sigma_N=528.22$   $\sigma_M=-4.73$   $\tau=20.81$   $\tau_{max}=20.81$   
 Tensioni:  $\sigma_N=528.22$   $\sigma_M=140.24$   $\tau=3.67$   $\sigma_{ID,max}=668.49$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00

Sollecitazioni: N=-2866.69 Tz=161.44 My=-49.03 Ty=17.26 Mz=-6.21  
 V,Ed=17.26 Vc,Rd,Red=7774.94 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=161.44 Vc,Rd,Red=7774.94 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1271.98 Tz=77.53 My=-26.32 Ty=13.09 Mz=2.30 Mx=-8.62  
 Tensioni:  $\sigma_N=-104.60$   $\sigma_M=-97.50$   $\tau=18.65$   $\sigma_{max}=-202.10$   
 Tensioni:  $\sigma_N=-104.60$   $\sigma_M=-7.04$   $\tau=32.97$   $\tau_{max}=32.97$   
 Tensioni:  $\sigma_N=-104.60$   $\sigma_M=-97.50$   $\tau=18.65$   $\sigma_{ID,max}=204.67$

Asta n. 4998 (-12374 -12440) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-2947.78 My,Ed=-97.23 Mz,Ed=4.75  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.12+0.01=0.23  
 Verifica ZZ: 0.11+0.10+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=6396.42 Tz=153.98 My=-61.09 Ty=42.74 Mz=4.69 Mx=2.95  
 Tensioni:  $\sigma_N=526.02$   $\sigma_M=224.13$   $\tau=6.38$   $\sigma_{max}=750.15$   
 Tensioni:  $\sigma_N=526.02$   $\sigma_M=14.38$   $\tau=34.82$   $\tau_{max}=34.82$   
 Tensioni:  $\sigma_N=526.02$   $\sigma_M=224.13$   $\tau=6.38$   $\sigma_{ID,max}=750.23$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00

Sollecitazioni: N=-2776.11 Tz=221.57 My=-74.46 Ty=32.54 Mz=8.88  
 V,Ed=32.54 Vc,Rd,Red=7739.72 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=221.57 Vc,Rd,Red=7739.72 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1314.94 Tz=106.29 My=-40.90 Ty=31.40 Mz=4.53 Mx=8.75  
 Tensioni:  $\sigma_N=-108.14$   $\sigma_M=-154.81$   $\tau=18.95$   $\sigma_{max}=-262.95$   
 Tensioni:  $\sigma_N=-108.14$   $\sigma_M=13.91$   $\tau=38.58$   $\tau_{max}=38.58$   
 Tensioni:  $\sigma_N=-108.14$   $\sigma_M=-154.81$   $\tau=18.95$   $\sigma_{ID,max}=264.99$

Asta n. 4998 (-12440 -12547) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-3085.40 My,Ed=-135.11 Mz,Ed=5.17  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$



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Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.17+0.01=0.29  
Verifica ZZ: 0.11+0.13+0.01=0.25

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=6398.69 T<sub>x</sub>=146.57 M<sub>y</sub>=-82.84 T<sub>y</sub>=76.30 M<sub>z</sub>=10.06 M<sub>x</sub>=5.31  
Tensioni:  $\sigma_N=526.21$   $\sigma_M=316.58$   $\tau=11.49$   $\sigma_{max}=842.79$   
Tensioni:  $\sigma_N=526.21$   $\sigma_M=30.86$   $\tau=38.58$   $\tau_{max}=38.58$   
Tensioni:  $\sigma_N=526.21$   $\sigma_M=316.58$   $\tau=11.49$   $\sigma_{ID,max}=843.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-2361.08 T<sub>x</sub>=226.68 M<sub>y</sub>=-91.68 T<sub>y</sub>=-26.06 M<sub>z</sub>=-16.52  
V,Ed=-26.06 Vc,Rd,Red=7639.23 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=226.68 Vc,Rd,Red=7639.23 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1360.29 T<sub>x</sub>=123.42 M<sub>y</sub>=-58.59 T<sub>y</sub>=74.27 M<sub>z</sub>=10.35 M<sub>x</sub>=9.92  
Tensioni:  $\sigma_N=-111.87$   $\sigma_M=-234.94$   $\tau=21.48$   $\sigma_{max}=-346.81$   
Tensioni:  $\sigma_N=-111.87$   $\sigma_M=31.75$   $\tau=44.28$   $\tau_{max}=44.28$   
Tensioni:  $\sigma_N=-111.87$   $\sigma_M=-234.94$   $\tau=21.48$   $\sigma_{ID,max}=348.80$

Asta n. 4998 (-12547 -12604) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-3322.28 M<sub>y</sub>,Ed=22.87 M<sub>z</sub>,Ed=-3.58  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.12+0.03+0.01=0.16  
Verifica ZZ: 0.12+0.02+0.01=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=6098.13 T<sub>x</sub>=19.89 M<sub>y</sub>=8.22 T<sub>y</sub>=65.63 M<sub>z</sub>=-8.11 M<sub>x</sub>=-20.21  
Tensioni:  $\sigma_N=501.49$   $\sigma_M=55.65$   $\tau=43.74$   $\sigma_{max}=557.14$   
Tensioni:  $\sigma_N=501.49$   $\sigma_M=25.22$   $\tau=55.87$   $\tau_{max}=55.87$   
Tensioni:  $\sigma_N=501.49$   $\sigma_M=55.65$   $\tau=43.74$   $\sigma_{ID,max}=562.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.09  
Sollecitazioni: N=-3494.32 T<sub>x</sub>=5.74 M<sub>y</sub>=15.24 T<sub>y</sub>=48.81 M<sub>z</sub>=-33.72  
V,Ed=48.81 Vc,Rd,Red=7412.97 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=5.74 Vc,Rd,Red=7412.97 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1452.43 T<sub>x</sub>=39.29 M<sub>y</sub>=20.25 T<sub>y</sub>=78.36 M<sub>z</sub>=-8.41 M<sub>x</sub>=-15.43  
Tensioni:  $\sigma_N=-119.44$   $\sigma_M=-97.65$   $\tau=33.38$   $\sigma_{max}=-217.09$   
Tensioni:  $\sigma_N=-119.44$   $\sigma_M=62.09$   $\tau=47.86$   $\tau_{max}=47.86$   
Tensioni:  $\sigma_N=-119.44$   $\sigma_M=-97.65$   $\tau=33.38$   $\sigma_{ID,max}=224.66$

Asta n. 4998 (-12604 -12678) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-3525.05 M<sub>y</sub>,Ed=14.73 M<sub>z</sub>,Ed=-2.00  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.02+0.00=0.15  
Verifica ZZ: 0.13+0.01+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5987.60 T<sub>x</sub>=-10.07 M<sub>y</sub>=6.03 T<sub>y</sub>=22.37 M<sub>z</sub>=-3.21 M<sub>x</sub>=-19.14  
Tensioni:  $\sigma_N=492.40$   $\sigma_M=31.50$   $\tau=41.42$   $\sigma_{max}=523.90$   
Tensioni:  $\sigma_N=492.40$   $\sigma_M=18.50$   $\tau=45.55$   $\tau_{max}=45.55$

Tensioni:  $\sigma_N=492.40$   $\sigma_M=31.50$   $\tau=41.42$   $\sigma_{ID,max}=528.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-1986.78$   $T_z=-29.79$   $M_y=5.53$   $T_y=7.10$   $M_x=-21.45$   
 $V,Ed=7.10$   $V_c,Rd,Red=7574.31$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-29.79$   $V_c,Rd,Red=7574.31$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1452.35$   $T_z=34.57$   $M_y=14.94$   $T_y=26.80$   $M_z=-2.15$   $M_x=-14.95$   
 Tensioni:  $\sigma_N=-119.44$   $\sigma_M=-58.27$   $\tau=32.36$   $\sigma_{max}=-177.70$   
 Tensioni:  $\sigma_N=-119.44$   $\sigma_M=6.61$   $\tau=38.74$   $\tau_{max}=38.74$   
 Tensioni:  $\sigma_N=-119.44$   $\sigma_M=-58.27$   $\tau=32.36$   $\sigma_{ID,max}=186.33$

Asta n. 4998 (-12678 -12749) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3561.66$   $M_y,Ed=12.74$   $M_z,Ed=-1.54$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.02+0.00=0.15$   
 Verifica ZZ:  $0.13+0.01+0.00=0.15$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5930.87$   $T_z=34.11$   $M_y=6.25$   $T_y=10.83$   $M_z=-1.61$   $M_x=-16.32$   
 Tensioni:  $\sigma_N=487.74$   $\sigma_M=26.79$   $\tau=35.32$   $\sigma_{max}=514.53$   
 Tensioni:  $\sigma_N=487.74$   $\sigma_M=4.93$   $\tau=41.62$   $\tau_{max}=41.62$   
 Tensioni:  $\sigma_N=487.74$   $\sigma_M=26.79$   $\tau=35.32$   $\sigma_{ID,max}=518.15$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.08$   
 Sollecitazioni:  $N=-3365.92$   $T_z=48.69$   $M_y=8.97$   $T_y=12.37$   $M_x=-21.94$   
 $V,Ed=12.37$   $V_c,Rd,Red=7567.97$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=48.69$   $V_c,Rd,Red=7567.97$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1473.72$   $T_z=37.26$   $M_y=10.77$   $T_y=13.21$   $M_z=-1.13$   $M_x=-13.36$   
 Tensioni:  $\sigma_N=-121.19$   $\sigma_M=-40.55$   $\tau=28.90$   $\sigma_{max}=-161.75$   
 Tensioni:  $\sigma_N=-121.19$   $\sigma_M=3.47$   $\tau=35.79$   $\tau_{max}=35.79$   
 Tensioni:  $\sigma_N=-121.19$   $\sigma_M=-40.55$   $\tau=28.90$   $\sigma_{ID,max}=169.32$

Asta n. 4998 (-12749 -12819) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3583.95$   $M_y,Ed=5.77$   $M_z,Ed=-0.80$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.01+0.00=0.14$   
 Verifica ZZ:  $0.13+0.01+0.00=0.14$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5905.04$   $T_z=19.98$   $M_y=1.49$   $T_y=7.38$   $M_z=-1.06$   $M_x=-13.32$   
 Tensioni:  $\sigma_N=485.61$   $\sigma_M=8.67$   $\tau=28.84$   $\sigma_{max}=494.28$   
 Tensioni:  $\sigma_N=485.61$   $\sigma_M=3.25$   $\tau=32.53$   $\tau_{max}=32.53$   
 Tensioni:  $\sigma_N=485.61$   $\sigma_M=8.67$   $\tau=28.84$   $\sigma_{ID,max}=496.80$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.05$   
 Sollecitazioni:  $N=-3415.19$   $T_z=51.14$   $M_y=2.90$   $T_y=7.65$   $M_x=-17.88$   
 $V,Ed=7.65$   $V_c,Rd,Red=7621.36$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=51.14$   $V_c,Rd,Red=7621.36$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1502.86$   $T_x=33.14$   $M_y=7.00$   $T_y=8.54$   $M_z=-1.23$   $M_x=-11.64$   
 Tensioni:  $\sigma_N=-123.59$   $\sigma_M=-28.06$   $\tau=25.19$   $\sigma_{max}=-151.65$   
 Tensioni:  $\sigma_N=-123.59$   $\sigma_M=3.78$   $\tau=31.31$   $\tau_{max}=31.31$   
 Tensioni:  $\sigma_N=-123.59$   $\sigma_M=-28.06$   $\tau=25.19$   $\sigma_{ID,max}=157.80$

Asta n. 4998 (-12819 -12889) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3594.29$   $M_y,Ed=-8.78$   $M_z,Ed=0.33$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.01+0.00=0.14$   
 Verifica ZZ:  $0.13+0.01+0.00=0.14$

- Verifica a compressione [4.2.9] - CC 60 SLU  $Xl=0.00$  - Classe 1  
 Sollecitazioni:  $N=-2902.68$   $T_x=58.18$   $T_y=5.46$   $M_x=-18.39$   
 $N,Ed=-2902.68$   $N_c,Rd=-27215.20$   $N,Ed/N_c,Rd=0.11$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3415.36$   $T_x=79.06$   $M_y=-2.83$   $T_y=4.66$   $M_x=-11.39$   
 $V,Ed=4.66$   $V_c,Rd,Red=7706.66$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=79.06$   $V_c,Rd,Red=7706.66$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 9 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1470.48$   $T_x=33.69$   $M_y=-8.92$   $T_y=3.78$   $M_x=-10.15$   
 Tensioni:  $\sigma_N=-120.93$   $\sigma_M=-30.40$   $\tau=21.97$   $\sigma_{max}=-151.32$   
 Tensioni:  $\sigma_N=-120.93$   $\sigma_M=0.00$   $\tau=28.20$   $\tau_{max}=28.20$   
 Tensioni:  $\sigma_N=-120.93$   $\sigma_M=-30.40$   $\tau=22.67$   $\sigma_{ID,max}=156.34$

Asta n. 4998 (-12889 -12972) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3598.25$   $M_y,Ed=-21.03$   $M_z,Ed=0.45$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.03+0.00=0.16$   
 Verifica ZZ:  $0.13+0.02+0.00=0.15$

- Verifica a pressoflessione retta - CC 75 SLU  $Xl=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3407.96$   $T_x=84.48$   $M_y=-22.98$   $T_y=2.97$   $M_x=-4.61$   
 $M_y,Ed=-22.98$   $M_y,c,Rd=776.35$   
 $N,Ed=-3407.96$   $N_c,Rd=27215.20$   $n=N,Ed/N_c,Rd=0.13$   
 $MN_y,c,Rd=776.35$   $M_y,Ed/MN_y,c,Rd=0.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3407.98$   $T_x=85.74$   $M_y=-14.66$   $T_y=2.97$   $M_x=-4.61$   
 $V,Ed=2.97$   $V_c,Rd,Red=7795.91$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=85.74$   $V_c,Rd,Red=7795.91$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1560.69$   $T_x=40.95$   $M_y=-10.31$   $T_y=5.45$   $M_z=-1.62$   $M_x=-7.22$   
 Tensioni:  $\sigma_N=-128.35$   $\sigma_M=-40.66$   $\tau=15.62$   $\sigma_{max}=-169.00$   
 Tensioni:  $\sigma_N=-128.35$   $\sigma_M=4.97$   $\tau=23.19$   $\tau_{max}=23.19$   
 Tensioni:  $\sigma_N=-128.35$   $\sigma_M=-40.66$   $\tau=15.62$   $\sigma_{ID,max}=171.16$

Asta n. 4998 (-12972 -13050) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3602.22$   $M_y,Ed=-39.01$   $M_z,Ed=0.66$

Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.05+0.00=0.18$   
 Verifica ZZ:  $0.13+0.04+0.00=0.17$

- Verifica a pressoflessione retta - CC 75 SLU  $X_l=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3400.62$   $T_z=124.18$   $M_y=-40.40$   $T_y=3.64$   $M_x=3.16$   
 $M_y, Ed=-40.40$   $M_y, c, R_d=776.35$   
 $N, Ed=-3400.62$   $N_c, R_d=27215.20$   $n=N, Ed/N_c, R_d=0.12$   
 $MN_y, c, R_d=776.35$   $M_y, Ed/MN_y, c, R_d=0.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3602.22$   $T_z=130.19$   $M_y=-26.35$   $T_y=5.50$   $M_x=-2.56$   
 $V, Ed=5.50$   $V_c, R_d, Red=7822.97$   $V, Ed/V_c, R_d, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=130.19$   $V_c, R_d, Red=7822.97$   $V, Ed/V_c, R_d, Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1589.04$   $T_z=58.63$   $M_y=-16.78$   $T_y=6.58$   $M_z=1.89$   $M_x=5.12$   
 Tensioni:  $\sigma_N=-130.68$   $\sigma_M=-63.62$   $\tau=11.07$   $\sigma_{max}=-194.30$   
 Tensioni:  $\sigma_N=-130.68$   $\sigma_M=5.79$   $\tau=21.90$   $\tau_{max}=21.90$   
 Tensioni:  $\sigma_N=-130.68$   $\sigma_M=-63.62$   $\tau=11.07$   $\sigma_{ID, max}=195.24$

Asta n. 4998 (-13050 -13127) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-3614.99$   $M_y, Ed=-60.97$   $M_z, Ed=1.69$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.07+0.00=0.21$   
 Verifica ZZ:  $0.13+0.06+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5857.84$   $T_z=89.19$   $M_y=-39.87$   $T_y=15.45$   $M_z=1.29$   $M_x=6.05$   
 Tensioni:  $\sigma_N=481.73$   $\sigma_M=140.28$   $\tau=13.08$   $\sigma_{max}=622.01$   
 Tensioni:  $\sigma_N=481.73$   $\sigma_M=3.97$   $\tau=29.56$   $\tau_{max}=29.56$   
 Tensioni:  $\sigma_N=481.73$   $\sigma_M=140.28$   $\tau=13.08$   $\sigma_{ID, max}=622.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3614.99$   $T_z=152.72$   $M_y=-46.11$   $T_y=14.34$   $M_x=4.17$   
 $V, Ed=14.34$   $V_c, R_d, Red=7801.74$   $V, Ed/V_c, R_d, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=152.72$   $V_c, R_d, Red=7801.74$   $V, Ed/V_c, R_d, Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1618.26$   $T_z=72.08$   $M_y=-25.65$   $T_y=12.46$   $M_z=2.64$   $M_x=7.14$   
 Tensioni:  $\sigma_N=-133.08$   $\sigma_M=-96.39$   $\tau=15.45$   $\sigma_{max}=-229.47$   
 Tensioni:  $\sigma_N=-133.08$   $\sigma_M=8.09$   $\tau=28.76$   $\tau_{max}=28.76$   
 Tensioni:  $\sigma_N=-133.08$   $\sigma_M=-96.39$   $\tau=15.45$   $\sigma_{ID, max}=231.02$

Asta n. 4998 (-13127 -13192) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-3674.02$   $M_y, Ed=-92.10$   $M_z, Ed=4.32$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.14+0.11+0.01=0.25$   
 Verifica ZZ:  $0.14+0.09+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5826.72$   $T_z=148.44$   $M_y=-60.56$   $T_y=32.59$   $M_z=3.82$   $M_x=10.38$   
 Tensioni:  $\sigma_N=479.17$   $\sigma_M=219.38$   $\tau=22.47$   $\sigma_{max}=698.55$   
 Tensioni:  $\sigma_N=479.17$   $\sigma_M=11.73$   $\tau=49.89$   $\tau_{max}=49.89$   
 Tensioni:  $\sigma_N=479.17$   $\sigma_M=219.38$   $\tau=22.47$   $\sigma_{ID,max}=699.64$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3457.08$   $T_z=208.76$   $M_y=-70.52$   $T_y=27.36$   $M_x=16.03$   
 $V,Ed=27.36$   $V_c,Rd,Red=7645.74$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=208.76$   $V_c,Rd,Red=7645.74$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1653.60$   $T_z=100.00$   $M_y=-38.89$   $T_y=31.48$   $M_z=4.98$   $M_x=9.17$   
 Tensioni:  $\sigma_N=-135.99$   $\sigma_M=-149.46$   $\tau=19.85$   $\sigma_{max}=-285.45$   
 Tensioni:  $\sigma_N=-135.99$   $\sigma_M=15.26$   $\tau=38.32$   $\tau_{max}=38.32$   
 Tensioni:  $\sigma_N=-135.99$   $\sigma_M=-149.46$   $\tau=19.85$   $\sigma_{ID,max}=287.51$

Asta n. 4998 (-13192 -13258) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3774.56$   $My,Ed=-128.69$   $Mz,Ed=4.56$   
 Resistenze:  $N_c,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.14+0.16+0.01=0.30$   
 Verifica ZZ:  $0.14+0.13+0.01=0.27$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5793.08$   $T_z=135.96$   $M_y=-81.58$   $T_y=44.30$   $M_z=6.77$   $M_x=12.61$   
 Tensioni:  $\sigma_N=476.40$   $\sigma_M=301.05$   $\tau=27.28$   $\sigma_{max}=777.46$   
 Tensioni:  $\sigma_N=476.40$   $\sigma_M=20.76$   $\tau=52.39$   $\tau_{max}=52.39$   
 Tensioni:  $\sigma_N=476.40$   $\sigma_M=301.05$   $\tau=27.28$   $\sigma_{ID,max}=778.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.02$   
 Sollecitazioni:  $N=-2879.40$   $T_z=214.71$   $M_y=-89.93$   $T_y=-20.44$   $M_x=-3.28$   
 $V,Ed=-20.44$   $V_c,Rd,Red=7813.47$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=214.71$   $V_c,Rd,Red=7813.47$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1690.02$   $T_z=111.88$   $M_y=-55.30$   $T_y=72.74$   $M_z=10.96$   $M_x=10.15$   
 Tensioni:  $\sigma_N=-138.98$   $\sigma_M=-225.81$   $\tau=21.97$   $\sigma_{max}=-364.79$   
 Tensioni:  $\sigma_N=-138.98$   $\sigma_M=33.62$   $\tau=42.64$   $\tau_{max}=42.64$   
 Tensioni:  $\sigma_N=-138.98$   $\sigma_M=-225.81$   $\tau=21.97$   $\sigma_{ID,max}=366.77$

Asta n. 4998 (-13258 -13327) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4095.68$   $My,Ed=-3.46$   $Mz,Ed=-3.67$   
 Resistenze:  $N_c,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.01=0.16$   
 Verifica ZZ:  $0.15+0.00+0.01=0.16$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5526.82$   $T_z=3.39$   $M_y=-2.84$   $T_y=41.27$   $M_z=-5.39$   $M_x=-14.11$   
 Tensioni:  $\sigma_N=454.51$   $\sigma_M=28.03$   $\tau=30.54$   $\sigma_{max}=482.54$   
 Tensioni:  $\sigma_N=454.51$   $\sigma_M=-8.70$   $\tau=38.16$   $\tau_{max}=38.16$   
 Tensioni:  $\sigma_N=454.51$   $\sigma_M=28.03$   $\tau=30.54$   $\sigma_{ID,max}=485.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-2326.04$   $T_z=-51.32$   $M_y=-7.89$   $T_y=25.00$   $M_x=-15.99$

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V,Ed=25.00 Vc,Rd,Red=7646.23 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-51.32 Vc,Rd,Red=7646.23 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1766.80 T<sub>z</sub>=-46.42 M<sub>y</sub>=-16.36 T<sub>y</sub>=74.86 M<sub>z</sub>=-7.88 M<sub>x</sub>=-11.90  
Tensioni:  $\sigma_N$ =-145.30  $\sigma_M$ =-82.58  $\tau$ =25.75  $\sigma_{max}$ =-227.88  
Tensioni:  $\sigma_N$ =-145.30  $\sigma_M$ =-50.16  $\tau$ =39.58  $\tau_{max}$ =39.58  
Tensioni:  $\sigma_N$ =-145.30  $\sigma_M$ =-79.90  $\tau$ =35.44  $\sigma_{ID,max}$ =233.41

Asta n. 4998 (-13327 -13394) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4131.24 My,Ed=3.07 Mz,Ed=-1.34  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5456.35 T<sub>z</sub>=-22.04 M<sub>y</sub>=-2.67 T<sub>y</sub>=12.41 M<sub>z</sub>=-2.23 M<sub>x</sub>=-12.93  
Tensioni:  $\sigma_N$ =448.71  $\sigma_M$ =16.69  $\tau$ =27.99  $\sigma_{max}$ =465.41  
Tensioni:  $\sigma_N$ =448.71  $\sigma_M$ =-6.83  $\tau$ =32.06  $\tau_{max}$ =32.06  
Tensioni:  $\sigma_N$ =448.71  $\sigma_M$ =16.69  $\tau$ =27.99  $\sigma_{ID,max}$ =467.93

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.10  
Sollecitazioni: N=-2339.04 T<sub>z</sub>=-47.68 T<sub>y</sub>=4.89 M<sub>x</sub>=-15.23  
V,Ed=4.89 Vc,Rd,Red=7656.14 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-47.68 Vc,Rd,Red=7656.14 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1771.99 T<sub>z</sub>=-42.64 M<sub>y</sub>=10.32 T<sub>y</sub>=25.75 M<sub>z</sub>=-1.65 M<sub>x</sub>=-11.51  
Tensioni:  $\sigma_N$ =-145.72  $\sigma_M$ =-40.77  $\tau$ =24.90  $\sigma_{max}$ =-186.49  
Tensioni:  $\sigma_N$ =-145.72  $\sigma_M$ =-5.05  $\tau$ =32.78  $\tau_{max}$ =32.78  
Tensioni:  $\sigma_N$ =-145.72  $\sigma_M$ =-40.77  $\tau$ =24.90  $\sigma_{ID,max}$ =191.42

Asta n. 4998 (-13394 -13466) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4160.86 My,Ed=2.83 Mz,Ed=-1.17  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463100.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463100.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=5411.74 T<sub>z</sub>=20.73 M<sub>y</sub>=-1.37 T<sub>y</sub>=6.97 M<sub>z</sub>=-1.04 M<sub>x</sub>=-10.10  
Tensioni:  $\sigma_N$ =445.04  $\sigma_M$ =8.21  $\tau$ =21.86  $\sigma_{max}$ =453.25  
Tensioni:  $\sigma_N$ =445.04  $\sigma_M$ =3.18  $\tau$ =25.69  $\tau_{max}$ =25.69  
Tensioni:  $\sigma_N$ =445.04  $\sigma_M$ =8.21  $\tau$ =21.86  $\sigma_{ID,max}$ =454.83

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.02  
Sollecitazioni: N=1236.69 T<sub>z</sub>=26.61 T<sub>y</sub>=8.93 M<sub>z</sub>=-1.44 M<sub>x</sub>=-14.16  
V,Ed=8.93 Vc,Rd,Red=7670.30 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=26.61 Vc,Rd,Red=7670.30 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1790.23 T<sub>z</sub>=29.30 M<sub>y</sub>=7.19 T<sub>y</sub>=12.27 M<sub>z</sub>=-1.43 M<sub>x</sub>=-10.48  
Tensioni:  $\sigma_N$ =-147.22  $\sigma_M$ =-29.37  $\tau$ =22.67  $\sigma_{max}$ =-176.60

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Tensioni:  $\sigma_N=-147.22$   $\sigma_M=4.40$   $\tau=28.08$   $\tau_{max}=28.08$   
Tensioni:  $\sigma_N=-147.22$   $\sigma_M=-29.37$   $\tau=22.67$   $\sigma_{ID,max}=180.91$

Asta n. 4998 (-13466 -13536) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4176.81 My,Ed=-2.40 Mz,Ed=-0.57  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16
  - Verifica a compressione [4.2.9] - CC 54 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-4176.81 Tz=21.17 Ty=7.26 Mx=-15.69  
N,Ed=-4176.81 Nc,Rd=-27215.20 N,Ed/Nc,Rd=0.15
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-3956.26 Tz=31.59 Ty=5.77 Mz=-1.38 Mx=-11.61  
V,Ed=5.77 Vc,Rd,Red=7703.79 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=31.59 Vc,Rd,Red=7703.79 V,Ed/Vc,Rd,Red=0.00
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1813.49 Tz=25.72 My=4.64 Ty=7.58 Mz=-1.66 Mx=-9.39  
Tensioni:  $\sigma_N=-149.14$   $\sigma_M=-21.46$   $\tau=20.32$   $\sigma_{max}=-170.60$   
Tensioni:  $\sigma_N=-149.14$   $\sigma_M=5.09$   $\tau=25.07$   $\tau_{max}=25.07$   
Tensioni:  $\sigma_N=-149.14$   $\sigma_M=-21.46$   $\tau=20.32$   $\sigma_{ID,max}=174.19$

Asta n. 4998 (-13536 -13602) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4182.06 My,Ed=-10.21 Mz,Ed=0.28  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.01+0.00=0.17  
Verifica ZZ: 0.15+0.01+0.00=0.16
  - Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.07 - Classe 3  
Sollecitazioni: N=-3004.31 Tz=49.94 My=-8.71 Ty=1.50 Mz=-1.01 Mx=-3.76  
Tensioni:  $\sigma_N=-247.06$   $\sigma_M=-33.13$   $\tau=8.13$   $\sigma_{max}=-280.19$   
Tensioni:  $\sigma_N=-247.06$   $\sigma_M=3.10$   $\tau=17.35$   $\tau_{max}=17.35$   
Tensioni:  $\sigma_N=-247.06$   $\sigma_M=-33.13$   $\tau=8.13$   $\sigma_{ID,max}=280.55$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-3953.62 Tz=62.43 My=-6.23 Ty=2.79 Mx=-4.98  
V,Ed=2.79 Vc,Rd,Red=7791.01 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=62.43 Vc,Rd,Red=7791.01 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1835.91 Tz=30.65 My=-6.13 Ty=5.04 Mz=-1.99 Mx=-7.80  
Tensioni:  $\sigma_N=-150.98$   $\sigma_M=-27.67$   $\tau=16.88$   $\sigma_{max}=-178.65$   
Tensioni:  $\sigma_N=-150.98$   $\sigma_M=6.10$   $\tau=22.54$   $\tau_{max}=22.54$   
Tensioni:  $\sigma_N=-150.98$   $\sigma_M=-27.67$   $\tau=16.88$   $\sigma_{ID,max}=181.03$

Asta n. 4998 (-13602 -13668) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4183.12 My,Ed=-19.77 Mz,Ed=0.28  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=3.15$  Ncr, z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.02+0.00=0.18  
Verifica ZZ: 0.15+0.02+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-2994.10 T<sub>z</sub>=51.99 M<sub>y</sub>=-17.80 M<sub>z</sub>=-1.03 M<sub>x</sub>=1.43  
Tensioni:  $\sigma_N=-246.22$   $\sigma_M=-64.16$   $\tau=3.10$   $\sigma_{max}=-310.38$   
Tensioni:  $\sigma_N=-246.22$   $\sigma_M=-3.50$   $\tau=12.70$   $\tau_{max}=12.70$   
Tensioni:  $\sigma_N=-246.22$   $\sigma_M=-64.16$   $\tau=3.10$   $\sigma_{ID,max}=310.43$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-3946.04 T<sub>z</sub>=66.76 M<sub>y</sub>=-15.53 M<sub>x</sub>=1.67  
V,Ed=66.76 Vc,Rd,Red=7834.56 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1857.27 T<sub>z</sub>=32.93 M<sub>y</sub>=-9.82 T<sub>y</sub>=3.86 M<sub>z</sub>=-2.10 M<sub>x</sub>=6.67  
Tensioni:  $\sigma_N=-152.74$   $\sigma_M=-40.62$   $\tau=14.43$   $\sigma_{max}=-193.36$   
Tensioni:  $\sigma_N=-152.74$   $\sigma_M=-6.44$   $\tau=20.51$   $\tau_{max}=20.51$   
Tensioni:  $\sigma_N=-152.74$   $\sigma_M=-40.62$   $\tau=14.43$   $\sigma_{ID,max}=194.96$

Asta n. 4998 (-13668 -13734) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4189.79 M<sub>y,Ed</sub>=-35.51 M<sub>z,Ed</sub>=0.90  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.04+0.00=0.20  
Verifica ZZ: 0.15+0.03+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-3398.02 T<sub>z</sub>=94.04 M<sub>y</sub>=-26.96 T<sub>y</sub>=6.56 M<sub>z</sub>=1.20 M<sub>x</sub>=1.83  
Tensioni:  $\sigma_N=-279.44$   $\sigma_M=-95.97$   $\tau=3.96$   $\sigma_{max}=-375.41$   
Tensioni:  $\sigma_N=-279.44$   $\sigma_M=3.68$   $\tau=21.33$   $\tau_{max}=21.33$   
Tensioni:  $\sigma_N=-279.44$   $\sigma_M=-95.97$   $\tau=3.96$   $\sigma_{ID,max}=375.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4189.79 T<sub>z</sub>=116.00 M<sub>y</sub>=-24.23 T<sub>y</sub>=7.78 M<sub>x</sub>=6.04  
V,Ed=7.78 Vc,Rd,Red=7777.14 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=116.00 Vc,Rd,Red=7777.14 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1878.27 T<sub>z</sub>=54.09 M<sub>y</sub>=-15.72 T<sub>y</sub>=5.34 M<sub>z</sub>=2.15 M<sub>x</sub>=9.11  
Tensioni:  $\sigma_N=-154.46$   $\sigma_M=-60.91$   $\tau=19.70$   $\sigma_{max}=-215.37$   
Tensioni:  $\sigma_N=-154.46$   $\sigma_M=6.61$   $\tau=29.70$   $\tau_{max}=29.70$   
Tensioni:  $\sigma_N=-154.46$   $\sigma_M=-60.91$   $\tau=19.70$   $\sigma_{ID,max}=218.06$

Asta n. 4998 (-13734 -13800) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4251.27 M<sub>y,Ed</sub>=-54.17 M<sub>z,Ed</sub>=2.55  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.07+0.00=0.23  
Verifica ZZ: 0.16+0.05+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5321.16 T<sub>z</sub>=72.55 M<sub>y</sub>=-37.10 T<sub>y</sub>=15.65 M<sub>z</sub>=1.54 M<sub>x</sub>=11.81  
Tensioni:  $\sigma_N=437.60$   $\sigma_M=131.68$   $\tau=25.56$   $\sigma_{max}=569.27$   
Tensioni:  $\sigma_N=437.60$   $\sigma_M=4.74$   $\tau=38.97$   $\tau_{max}=38.97$   
Tensioni:  $\sigma_N=437.60$   $\sigma_M=131.68$   $\tau=25.56$   $\sigma_{ID,max}=570.99$



- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-4251.27$   $T_z=128.80$   $M_y=-41.64$   $T_y=18.63$   $M_x=12.35$   
 $V,Ed=18.63$   $V_c,Rd,Red=7694.05$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=128.80$   $V_c,Rd,Red=7694.05$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-1908.52$   $T_z=61.30$   $M_y=-23.11$   $T_y=11.55$   $M_z=2.92$   $M_x=11.17$   
Tensioni:  $\sigma_N=-156.95$   $\sigma_M=-88.68$   $\tau=24.16$   $\sigma_{max}=-245.63$   
Tensioni:  $\sigma_N=-156.95$   $\sigma_M=8.95$   $\tau=35.49$   $\tau_{max}=35.49$   
Tensioni:  $\sigma_N=-156.95$   $\sigma_M=-88.68$   $\tau=24.16$   $\sigma_{ID,max}=249.17$

Asta n. 4998 (-13800 -13866) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4351.38$   $M_y,Ed=-82.55$   $M_z,Ed=2.89$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.10+0.00=0.27$   
Verifica ZZ:  $0.16+0.08+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4351.36$   $T_z=200.14$   $M_y=-82.55$   $T_y=13.90$   $M_z=2.89$   $M_x=18.99$   
Tensioni:  $\sigma_N=-357.84$   $\sigma_M=-291.15$   $\tau=41.09$   $\sigma_{max}=-649.00$   
Tensioni:  $\sigma_N=-357.84$   $\sigma_M=8.87$   $\tau=78.05$   $\tau_{max}=78.05$   
Tensioni:  $\sigma_N=-357.84$   $\sigma_M=-291.15$   $\tau=41.09$   $\sigma_{ID,max}=652.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-4099.65$   $T_z=189.01$   $M_y=-62.90$   $T_y=8.74$   $M_x=22.09$   
 $V,Ed=8.74$   $V_c,Rd,Red=7565.94$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=189.01$   $V_c,Rd,Red=7565.94$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-1947.49$   $T_z=93.67$   $M_y=-35.74$   $T_y=27.85$   $M_z=4.87$   $M_x=13.10$   
Tensioni:  $\sigma_N=-160.16$   $\sigma_M=-138.41$   $\tau=28.35$   $\sigma_{max}=-298.56$   
Tensioni:  $\sigma_N=-160.16$   $\sigma_M=14.94$   $\tau=45.65$   $\tau_{max}=45.65$   
Tensioni:  $\sigma_N=-160.16$   $\sigma_M=-138.41$   $\tau=28.35$   $\sigma_{ID,max}=302.57$

Asta n. 4998 (-13866 -13934) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4435.32$   $M_y,Ed=-115.63$   $M_z,Ed=2.27$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.14+0.00=0.31$   
Verifica ZZ:  $0.16+0.11+0.00=0.28$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4175.40$   $T_z=220.92$   $M_y=-112.56$   $T_y=-38.41$   $M_z=-2.71$   $M_x=24.51$   
Tensioni:  $\sigma_N=-343.37$   $\sigma_M=-392.79$   $\tau=53.04$   $\sigma_{max}=-736.16$   
Tensioni:  $\sigma_N=-343.37$   $\sigma_M=-8.32$   $\tau=93.84$   $\tau_{max}=93.84$   
Tensioni:  $\sigma_N=-343.37$   $\sigma_M=-391.87$   $\tau=58.01$   $\sigma_{ID,max}=742.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-4435.31$   $T_z=234.29$   $M_y=-105.45$   $T_y=-24.53$   $M_x=21.45$   
 $V,Ed=-24.53$   $V_c,Rd,Red=7574.37$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=234.29$   $V_c,Rd,Red=7574.37$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1988.57$   $T_x=108.88$   $M_y=-51.07$   $T_y=-85.82$   $M_z=-11.12$   $M_x=13.82$   
 Tensioni:  $\sigma_N=-163.53$   $\sigma_M=-211.92$   $\tau=29.91$   $\sigma_{max}=-375.45$   
 Tensioni:  $\sigma_N=-163.53$   $\sigma_M=-34.10$   $\tau=50.03$   $\tau_{max}=50.03$   
 Tensioni:  $\sigma_N=-163.53$   $\sigma_M=-211.92$   $\tau=29.91$   $\sigma_{ID,max}=379.01$

Asta n. 4998 (-13934 -14004) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4520.81$   $M_y,Ed=-20.78$   $M_z,Ed=-1.88$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.03+0.00=0.19$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=5167.85$   $T_x=-10.79$   $M_y=-14.11$   $T_y=1.23$   $M_z=-1.23$   $M_x=-9.65$   
 Tensioni:  $\sigma_N=424.99$   $\sigma_M=52.28$   $\tau=20.89$   $\sigma_{max}=477.27$   
 Tensioni:  $\sigma_N=424.99$   $\sigma_M=-3.77$   $\tau=22.88$   $\tau_{max}=22.88$   
 Tensioni:  $\sigma_N=424.99$   $\sigma_M=52.28$   $\tau=20.89$   $\sigma_{ID,max}=478.64$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_1=0.10$   
 Sollecitazioni:  $N=-2575.53$   $T_x=-65.90$   $M_y=-15.87$   $T_y=19.21$   $M_x=-11.43$   
 $V,Ed=19.21$   $V_c,Rd,Red=7706.24$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-65.90$   $V_c,Rd,Red=7706.24$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2005.85$   $T_x=-48.63$   $M_y=-19.61$   $T_y=69.13$   $M_z=-6.78$   $M_x=-12.65$   
 Tensioni:  $\sigma_N=-164.96$   $\sigma_M=-89.91$   $\tau=27.37$   $\sigma_{max}=-254.87$   
 Tensioni:  $\sigma_N=-164.96$   $\sigma_M=-60.13$   $\tau=40.14$   $\tau_{max}=40.14$   
 Tensioni:  $\sigma_N=-164.96$   $\sigma_M=-87.60$   $\tau=36.32$   $\sigma_{ID,max}=260.27$

Asta n. 4998 (-14004 -14076) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4505.87$   $M_y,Ed=-13.12$   $M_z,Ed=-0.32$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463100.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463100.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.02+0.00=0.18$   
 Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=5141.65$   $T_x=-36.58$   $M_y=-12.13$   $T_y=5.41$   $M_z=-1.48$   $M_x=-8.66$   
 Tensioni:  $\sigma_N=422.83$   $\sigma_M=46.38$   $\tau=18.73$   $\sigma_{max}=469.21$   
 Tensioni:  $\sigma_N=422.83$   $\sigma_M=-4.53$   $\tau=25.49$   $\tau_{max}=25.49$   
 Tensioni:  $\sigma_N=422.83$   $\sigma_M=46.38$   $\tau=18.73$   $\sigma_{ID,max}=470.33$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_1=0.10$   
 Sollecitazioni:  $N=-3463.49$   $T_x=-64.06$   $M_y=-6.51$   $T_y=-8.42$   $M_x=-30.68$   
 $V,Ed=-8.42$   $V_c,Rd,Red=7452.87$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-64.06$   $V_c,Rd,Red=7452.87$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1998.94$   $T_x=-44.54$   $M_y=-12.61$   $T_y=23.97$   $M_z=-12.42$   
 Tensioni:  $\sigma_N=-164.39$   $\sigma_M=-42.98$   $\tau=26.87$   $\sigma_{max}=-207.36$   
 Tensioni:  $\sigma_N=-164.39$   $\sigma_M=0.00$   $\tau=35.10$   $\tau_{max}=35.10$   
 Tensioni:  $\sigma_N=-164.39$   $\sigma_M=-42.98$   $\tau=31.30$   $\sigma_{ID,max}=214.33$

Asta n. 4998 (-14076 -14139) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4498.36$   $M_y, Ed = -6.99$   $M_z, Ed = -0.41$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.01 + 0.00 = 0.17$   
 Verifica ZZ:  $0.17 + 0.01 + 0.00 = 0.17$
  
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 5110.88$   $T_z = 9.52$   $M_y = -7.97$   $T_y = 5.49$   $M_z = -1.04$   $M_x = -5.68$   
 Tensioni:  $\sigma_N = 420.30$   $\sigma_M = 30.70$   $\tau = 12.28$   $\sigma_{max} = 451.00$   
 Tensioni:  $\sigma_N = 420.30$   $\sigma_M = 3.20$   $\tau = 14.04$   $\tau_{max} = 14.04$   
 Tensioni:  $\sigma_N = 420.30$   $\sigma_M = 30.70$   $\tau = 12.28$   $\sigma_{ID, max} = 451.50$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -2555.88$   $T_z = -24.29$   $M_y = -2.28$   $T_y = 3.61$   $M_x = -8.48$   
 $V, Ed = 3.61$   $V_c, Rd, Red = 7745.00$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -24.29$   $V_c, Rd, Red = 7745.00$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -2006.17$   $T_z = -20.21$   $M_y = -7.35$   $T_y = 10.56$   $M_z = -1.63$   $M_x = -11.41$   
 Tensioni:  $\sigma_N = -164.98$   $\sigma_M = -30.58$   $\tau = 24.68$   $\sigma_{max} = -195.56$   
 Tensioni:  $\sigma_N = -164.98$   $\sigma_M = -4.98$   $\tau = 28.42$   $\tau_{max} = 28.42$   
 Tensioni:  $\sigma_N = -164.98$   $\sigma_M = -30.58$   $\tau = 24.68$   $\sigma_{ID, max} = 200.18$
- Asta n. 4998 (-14139 -14205) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4487.48$   $M_y, Ed = -7.34$   $M_z, Ed = 0.27$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16 + 0.01 + 0.00 = 0.17$   
 Verifica ZZ:  $0.16 + 0.01 + 0.00 = 0.17$
  
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l = 0.03$  - Classe 3  
 Sollecitazioni:  $N = -4223.20$   $T_z = 12.68$   $M_y = -7.82$   $T_y = 2.35$   $M_z = -1.02$   $M_x = -7.65$   
 Tensioni:  $\sigma_N = -347.30$   $\sigma_M = -30.13$   $\tau = 16.55$   $\sigma_{max} = -377.43$   
 Tensioni:  $\sigma_N = -347.30$   $\sigma_M = 3.12$   $\tau = 18.89$   $\tau_{max} = 18.89$   
 Tensioni:  $\sigma_N = -347.30$   $\sigma_M = -30.13$   $\tau = 16.55$   $\sigma_{ID, max} = 378.52$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -2551.03$   $T_z = -15.97$   $T_y = 2.44$   $M_x = -6.45$   
 $V, Ed = 2.44$   $V_c, Rd, Red = 7771.76$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -15.97$   $V_c, Rd, Red = 7771.76$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -2017.78$   $T_z = 15.82$   $M_y = -6.04$   $T_y = 5.78$   $M_z = -2.00$   $M_x = -10.35$   
 Tensioni:  $\sigma_N = -165.94$   $\sigma_M = -27.39$   $\tau = 22.40$   $\sigma_{max} = -193.32$   
 Tensioni:  $\sigma_N = -165.94$   $\sigma_M = 6.14$   $\tau = 25.32$   $\tau_{max} = 25.32$   
 Tensioni:  $\sigma_N = -165.94$   $\sigma_M = -27.39$   $\tau = 22.40$   $\sigma_{ID, max} = 197.18$
- Asta n. 4998 (-14205 -14271) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4473.61$   $M_y, Ed = -12.14$   $M_z, Ed = 0.24$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16 + 0.01 + 0.00 = 0.18$

Verifica ZZ:  $0.16+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3181.26$   $T_z=32.27$   $M_y=-11.42$   $M_z=-1.18$   $M_x=-1.13$   
 Tensioni:  $\sigma_N=-261.62$   $\sigma_M=-42.95$   $\tau=2.45$   $\sigma_{max}=-304.57$   
 Tensioni:  $\sigma_N=-261.62$   $\sigma_M=3.63$   $\tau=8.41$   $\tau_{max}=8.41$   
 Tensioni:  $\sigma_N=-261.62$   $\sigma_M=-42.95$   $\tau=2.45$   $\sigma_{ID,max}=304.60$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4203.49$   $T_z=41.03$   $M_y=-10.16$   $M_x=-1.03$   
 $V,Ed=41.03$   $Vc,Rd,Red=7843.09$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2029.06$   $T_z=20.58$   $M_y=-6.43$   $T_y=3.26$   $M_z=-2.42$   $M_x=-8.84$   
 Tensioni:  $\sigma_N=-166.86$   $\sigma_M=-30.16$   $\tau=19.13$   $\sigma_{max}=-197.03$   
 Tensioni:  $\sigma_N=-166.86$   $\sigma_M=7.44$   $\tau=22.93$   $\tau_{max}=22.93$   
 Tensioni:  $\sigma_N=-166.86$   $\sigma_M=-30.16$   $\tau=19.13$   $\sigma_{ID,max}=199.79$

Asta n. 4998 (-14271 -14337) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4463.10$   $M_y,Ed=-18.98$   $M_z,Ed=0.60$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463100.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463100.00$   $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.00=0.19$   
 Verifica ZZ:  $0.16+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $X_l=0.05$  - Classe 3  
 Sollecitazioni:  $N=-3165.53$   $T_z=39.21$   $M_y=-15.31$   $T_y=2.66$   $M_z=-1.01$   $M_x=4.11$   
 Tensioni:  $\sigma_N=-260.32$   $\sigma_M=-55.61$   $\tau=8.88$   $\sigma_{max}=-315.93$   
 Tensioni:  $\sigma_N=-260.32$   $\sigma_M=-3.09$   $\tau=16.13$   $\tau_{max}=16.13$   
 Tensioni:  $\sigma_N=-260.32$   $\sigma_M=-55.61$   $\tau=8.88$   $\sigma_{ID,max}=316.30$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4186.99$   $T_z=49.69$   $M_y=-16.33$   $T_y=3.67$   $M_x=5.67$   
 $V,Ed=3.67$   $Vc,Rd,Red=7781.94$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=49.69$   $Vc,Rd,Red=7781.94$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2039.86$   $T_z=27.29$   $M_y=-8.64$   $T_y=2.68$   $M_z=-2.24$   $M_x=10.62$   
 Tensioni:  $\sigma_N=-167.75$   $\sigma_M=-37.08$   $\tau=22.99$   $\sigma_{max}=-204.84$   
 Tensioni:  $\sigma_N=-167.75$   $\sigma_M=-6.88$   $\tau=28.03$   $\tau_{max}=28.03$   
 Tensioni:  $\sigma_N=-167.75$   $\sigma_M=-37.08$   $\tau=22.99$   $\sigma_{ID,max}=208.67$

Asta n. 4998 (-14337 -14403) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4493.69$   $M_y,Ed=-30.68$   $M_z,Ed=1.67$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.04+0.00=0.21$   
 Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4493.67$   $T_z=85.64$   $M_y=-30.68$   $T_y=11.28$   $M_z=1.67$   $M_x=11.47$   
 Tensioni:  $\sigma_N=-369.55$   $\sigma_M=-110.25$   $\tau=24.82$   $\sigma_{max}=-479.80$   
 Tensioni:  $\sigma_N=-369.55$   $\sigma_M=5.13$   $\tau=40.64$   $\tau_{max}=40.64$   
 Tensioni:  $\sigma_N=-369.55$   $\sigma_M=-110.25$   $\tau=24.82$   $\sigma_{ID,max}=481.72$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4493.69$   $T_z=86.90$   $M_y=-22.25$   $T_y=11.28$   $M_x=11.47$   
 $V,Ed=11.28$   $Vc,Rd,Red=7705.69$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=86.90 Vc,Rd,Red=7705.69 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2055.33 T<sub>z</sub>=41.82 M<sub>y</sub>=-12.97 T<sub>y</sub>=5.18 M<sub>z</sub>=2.44 M<sub>x</sub>=12.93  
Tensioni:  $\sigma_N$ =-169.02  $\sigma_M$ =-52.54  $\tau$ =27.97  $\sigma_{max}$ =-221.56  
Tensioni:  $\sigma_N$ =-169.02  $\sigma_M$ =7.49  $\tau$ =35.70  $\tau_{max}$ =35.70  
Tensioni:  $\sigma_N$ =-169.02  $\sigma_M$ =-52.54  $\tau$ =27.97  $\sigma_{ID,max}$ =226.80

Asta n. 4998 (-14403 -14469) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4560.19 M<sub>y</sub>,Ed=-45.18 M<sub>z</sub>,Ed=1.55  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.06+0.00=0.23  
Verifica ZZ: 0.17+0.04+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4560.17 T<sub>z</sub>=97.63 M<sub>y</sub>=-45.18 T<sub>y</sub>=5.21 M<sub>z</sub>=1.55 M<sub>x</sub>=17.49  
Tensioni:  $\sigma_N$ =-375.01  $\sigma_M$ =-159.22  $\tau$ =37.85  $\sigma_{max}$ =-534.23  
Tensioni:  $\sigma_N$ =-375.01  $\sigma_M$ =4.75  $\tau$ =55.88  $\tau_{max}$ =55.88  
Tensioni:  $\sigma_N$ =-375.01  $\sigma_M$ =-159.22  $\tau$ =37.85  $\sigma_{ID,max}$ =538.24

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-4278.82 T<sub>z</sub>=93.11 M<sub>y</sub>=-36.56 T<sub>y</sub>=3.63 M<sub>x</sub>=18.88  
V,Ed=3.63 Vc,Rd,Red=7608.18 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=93.11 Vc,Rd,Red=7608.18 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2077.69 T<sub>z</sub>=55.12 M<sub>y</sub>=-19.67 T<sub>y</sub>=7.41 M<sub>z</sub>=2.80 M<sub>x</sub>=14.56  
Tensioni:  $\sigma_N$ =-170.86  $\sigma_M$ =-76.59  $\tau$ =31.51  $\sigma_{max}$ =-247.45  
Tensioni:  $\sigma_N$ =-170.86  $\sigma_M$ =8.60  $\tau$ =41.69  $\tau_{max}$ =41.69  
Tensioni:  $\sigma_N$ =-170.86  $\sigma_M$ =-76.59  $\tau$ =31.51  $\sigma_{ID,max}$ =253.40

Asta n. 4998 (-14469 -14535) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4603.11 M<sub>y</sub>,Ed=-67.28 M<sub>z</sub>,Ed=1.55  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463100.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463100.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.08+0.00=0.25  
Verifica ZZ: 0.17+0.07+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4603.09 T<sub>z</sub>=158.99 M<sub>y</sub>=-67.28 T<sub>y</sub>=-5.64 M<sub>z</sub>=1.00 M<sub>x</sub>=22.80  
Tensioni:  $\sigma_N$ =-378.54  $\sigma_M$ =-232.67  $\tau$ =49.34  $\sigma_{max}$ =-611.22  
Tensioni:  $\sigma_N$ =-378.54  $\sigma_M$ =3.08  $\tau$ =78.70  $\tau_{max}$ =78.70  
Tensioni:  $\sigma_N$ =-378.54  $\sigma_M$ =-232.67  $\tau$ =49.34  $\sigma_{ID,max}$ =617.16

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-4317.77 T<sub>z</sub>=147.83 M<sub>y</sub>=-51.61 T<sub>y</sub>=-11.53 M<sub>x</sub>=24.00  
V,Ed=-11.53 Vc,Rd,Red=7540.80 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=147.83 Vc,Rd,Red=7540.80 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2100.86 T<sub>z</sub>=81.77 M<sub>y</sub>=-30.70 T<sub>y</sub>=-28.33 M<sub>z</sub>=4.53 M<sub>x</sub>=16.04  
Tensioni:  $\sigma_N$ =-172.77  $\sigma_M$ =-120.05  $\tau$ =34.72  $\sigma_{max}$ =-292.82  
Tensioni:  $\sigma_N$ =-172.77  $\sigma_M$ =13.90  $\tau$ =49.82  $\tau_{max}$ =49.82

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Tensioni:  $\sigma_N=-172.77$   $\sigma_M=-120.05$   $\tau=34.72$   $\sigma_{ID,max}=298.93$

Asta n. 4998 (-14535 -14605) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4664.69 My,Ed=-92.51 Mz,Ed=1.12

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.11+0.00=0.29

Verifica ZZ: 0.17+0.09+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-4664.67 T<sub>z</sub>=180.15 M<sub>y</sub>=-92.51 T<sub>y</sub>=9.72 M<sub>z</sub>=1.12 M<sub>x</sub>=24.78

Tensioni:  $\sigma_N=-383.61$   $\sigma_M=-319.06$   $\tau=53.62$   $\sigma_{max}=-702.67$

Tensioni:  $\sigma_N=-383.61$   $\sigma_M=3.44$   $\tau=86.89$   $\tau_{max}=86.89$

Tensioni:  $\sigma_N=-383.61$   $\sigma_M=-319.06$   $\tau=53.62$   $\sigma_{ID,max}=708.78$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00

Sollecitazioni: N=-4664.69 T<sub>z</sub>=181.39 M<sub>y</sub>=-75.20 T<sub>y</sub>=9.72 M<sub>x</sub>=24.78

V,Ed=9.72 Vc,Rd,Red=7530.59 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=181.39 Vc,Rd,Red=7530.59 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-2137.19 T<sub>z</sub>=97.45 M<sub>y</sub>=-44.29 T<sub>y</sub>=68.06 M<sub>z</sub>=10.37 M<sub>x</sub>=16.38

Tensioni:  $\sigma_N=-175.76$   $\sigma_M=-186.24$   $\tau=35.45$   $\sigma_{max}=-362.00$

Tensioni:  $\sigma_N=-175.76$   $\sigma_M=31.80$   $\tau=53.46$   $\tau_{max}=53.46$

Tensioni:  $\sigma_N=-175.76$   $\sigma_M=-186.24$   $\tau=35.45$   $\sigma_{ID,max}=367.17$

Asta n. 4998 (-14605 -14673) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4698.30 My,Ed=-22.60 Mz,Ed=0.68

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.03+0.00=0.20

Verifica ZZ: 0.17+0.02+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=5055.33 T<sub>z</sub>=-4.20 M<sub>y</sub>=-14.83 T<sub>y</sub>=-20.48 M<sub>z</sub>=1.21 M<sub>x</sub>=-7.75

Tensioni:  $\sigma_N=415.73$   $\sigma_M=54.64$   $\tau=16.78$   $\sigma_{max}=470.38$

Tensioni:  $\sigma_N=415.73$   $\sigma_M=45.47$   $\tau=20.56$   $\tau_{max}=20.56$

Tensioni:  $\sigma_N=415.73$   $\sigma_M=54.64$   $\tau=16.78$   $\sigma_{ID,max}=471.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.10

Sollecitazioni: N=-2686.75 T<sub>z</sub>=-64.29 M<sub>y</sub>=-16.76 T<sub>y</sub>=8.92 M<sub>x</sub>=-9.28

V,Ed=8.92 Vc,Rd,Red=7734.46 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-64.29 Vc,Rd,Red=7734.46 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2141.79 T<sub>z</sub>=-39.25 M<sub>y</sub>=-17.32 T<sub>y</sub>=-66.24 M<sub>z</sub>=5.99 M<sub>x</sub>=-15.90

Tensioni:  $\sigma_N=-176.13$   $\sigma_M=-79.41$   $\tau=34.41$   $\sigma_{max}=-255.54$

Tensioni:  $\sigma_N=-176.13$   $\sigma_M=53.10$   $\tau=46.65$   $\tau_{max}=46.65$

Tensioni:  $\sigma_N=-176.13$   $\sigma_M=-79.41$   $\tau=34.41$   $\sigma_{ID,max}=262.40$

Asta n. 4998 (-14673 -14739) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4636.37 My,Ed=-15.43 Mz,Ed=0.29

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

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$\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-4343.56 T<sub>z</sub>=-27.22 M<sub>y</sub>=-9.11 T<sub>y</sub>=-9.03 M<sub>z</sub>=-1.01 M<sub>x</sub>=-17.11  
Tensioni:  $\sigma_N=-357.20$   $\sigma_M=-34.49$   $\tau=37.04$   $\sigma_{max}=-391.69$   
Tensioni:  $\sigma_N=-357.20$   $\sigma_M=-3.10$   $\tau=42.06$   $\tau_{max}=42.06$   
Tensioni:  $\sigma_N=-357.20$   $\sigma_M=-34.49$   $\tau=37.04$   $\sigma_{ID,max}=396.91$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-3553.30 T<sub>z</sub>=-58.37 M<sub>y</sub>=-8.72 T<sub>y</sub>=-9.29 M<sub>z</sub>=-26.42  
V,Ed=-9.29 Vc,Rd,Red=7508.91 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-58.37 Vc,Rd,Red=7508.91 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2118.52 T<sub>z</sub>=-34.30 M<sub>y</sub>=-11.92 T<sub>y</sub>=21.08 M<sub>z</sub>=-15.65  
Tensioni:  $\sigma_N=-174.22$   $\sigma_M=-40.63$   $\tau=33.87$   $\sigma_{max}=-214.85$   
Tensioni:  $\sigma_N=-174.22$   $\sigma_M=0.00$   $\tau=40.21$   $\tau_{max}=40.21$   
Tensioni:  $\sigma_N=-174.22$   $\sigma_M=-40.63$   $\tau=37.77$   $\sigma_{ID,max}=224.59$

Asta n. 4998 (-14739 -14805) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4613.85 M<sub>y,Ed</sub>=-9.96 M<sub>z,Ed</sub>=-0.17  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.01+0.00=0.18  
Verifica ZZ: 0.17+0.01+0.00=0.18
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4321.67 T<sub>z</sub>=9.10 M<sub>y</sub>=-9.42 T<sub>y</sub>=1.31 M<sub>z</sub>=-1.10 M<sub>x</sub>=-13.27  
Tensioni:  $\sigma_N=-355.40$   $\sigma_M=-35.86$   $\tau=28.72$   $\sigma_{max}=-391.26$   
Tensioni:  $\sigma_N=-355.40$   $\sigma_M=3.38$   $\tau=30.40$   $\tau_{max}=30.40$   
Tensioni:  $\sigma_N=-355.40$   $\sigma_M=-35.86$   $\tau=28.72$   $\sigma_{ID,max}=394.41$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.10  
Sollecitazioni: N=-2634.05 T<sub>z</sub>=-24.40 M<sub>y</sub>=-3.85 T<sub>y</sub>=2.44 M<sub>z</sub>=-6.59  
V,Ed=2.44 Vc,Rd,Red=7769.82 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-24.40 Vc,Rd,Red=7769.82 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2120.08 T<sub>z</sub>=-16.53 M<sub>y</sub>=-7.33 T<sub>y</sub>=9.04 M<sub>z</sub>=-2.65 M<sub>x</sub>=-14.56  
Tensioni:  $\sigma_N=-174.35$   $\sigma_M=-34.01$   $\tau=31.52$   $\sigma_{max}=-208.36$   
Tensioni:  $\sigma_N=-174.35$   $\sigma_M=-8.13$   $\tau=34.57$   $\tau_{max}=34.57$   
Tensioni:  $\sigma_N=-174.35$   $\sigma_M=-34.01$   $\tau=31.52$   $\sigma_{ID,max}=215.39$

Asta n. 4998 (-14805 -14871) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4600.98 M<sub>y,Ed</sub>=-9.88 M<sub>z,Ed</sub>=0.25  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.01+0.00=0.18  
Verifica ZZ: 0.17+0.01+0.00=0.18
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.09 - Classe 3  
Sollecitazioni: N=-4305.79 T<sub>z</sub>=7.75 M<sub>y</sub>=-10.83 T<sub>y</sub>=1.71 M<sub>z</sub>=-1.01 M<sub>x</sub>=-8.69

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Tensioni:  $\sigma_N=-354.10$   $\sigma_M=-40.36$   $\tau=18.82$   $\sigma_{max}=-394.46$   
 Tensioni:  $\sigma_N=-354.10$   $\sigma_M=3.11$   $\tau=20.25$   $\tau_{max}=20.25$   
 Tensioni:  $\sigma_N=-354.10$   $\sigma_M=-40.36$   $\tau=18.82$   $\sigma_{ID,max}=395.80$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-2627.68$   $T_z=-16.22$   $M_y=-1.33$   $T_y=1.90$   $M_x=-4.60$   
 $V,Ed=1.90$   $Vc,Rd,Red=7796.11$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-16.22$   $Vc,Rd,Red=7796.11$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2128.63$   $T_z=-11.27$   $M_y=-6.97$   $T_y=4.70$   $M_z=-2.72$   $M_x=-13.40$   
 Tensioni:  $\sigma_N=-175.05$   $\sigma_M=-33.03$   $\tau=29.00$   $\sigma_{max}=-208.08$   
 Tensioni:  $\sigma_N=-175.05$   $\sigma_M=-8.34$   $\tau=31.08$   $\tau_{max}=31.08$   
 Tensioni:  $\sigma_N=-175.05$   $\sigma_M=-33.03$   $\tau=29.00$   $\sigma_{ID,max}=214.06$

Asta n. 4998 (-14871 -14937) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4591.93$   $M_y,Ed=-13.97$   $M_z,Ed=0.56$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.02+0.00=0.19$   
 Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4292.67$   $T_z=36.24$   $M_y=-12.14$   $T_y=3.70$   $M_z=-1.02$   $M_x=-2.16$   
 Tensioni:  $\sigma_N=-353.01$   $\sigma_M=-44.85$   $\tau=4.68$   $\sigma_{max}=-397.86$   
 Tensioni:  $\sigma_N=-353.01$   $\sigma_M=3.13$   $\tau=11.37$   $\tau_{max}=11.37$   
 Tensioni:  $\sigma_N=-353.01$   $\sigma_M=-44.85$   $\tau=4.68$   $\sigma_{ID,max}=397.95$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.01$   
 Sollecitazioni:  $N=-4292.67$   $T_z=36.12$   $M_y=-12.46$   $T_y=3.70$   $M_x=-2.16$   
 $V,Ed=3.70$   $Vc,Rd,Red=7828.13$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=36.12$   $Vc,Rd,Red=7828.13$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2137.22$   $T_z=18.97$   $M_y=-7.59$   $T_y=2.57$   $M_z=-2.54$   $M_x=-11.60$   
 Tensioni:  $\sigma_N=-175.76$   $\sigma_M=-34.53$   $\tau=25.11$   $\sigma_{max}=-210.29$   
 Tensioni:  $\sigma_N=-175.76$   $\sigma_M=7.80$   $\tau=28.61$   $\tau_{max}=28.61$   
 Tensioni:  $\sigma_N=-175.76$   $\sigma_M=-34.53$   $\tau=25.11$   $\sigma_{ID,max}=214.74$

Asta n. 4998 (-14937 -15003) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4610.36$   $M_y,Ed=-19.44$   $M_z,Ed=1.35$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.02+0.00=0.20$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4610.34$   $T_z=36.96$   $M_y=-19.44$   $T_y=8.42$   $M_z=1.35$   $M_x=4.38$   
 Tensioni:  $\sigma_N=-379.14$   $\sigma_M=-70.83$   $\tau=9.48$   $\sigma_{max}=-449.97$   
 Tensioni:  $\sigma_N=-379.14$   $\sigma_M=4.13$   $\tau=16.31$   $\tau_{max}=16.31$   
 Tensioni:  $\sigma_N=-379.14$   $\sigma_M=-70.83$   $\tau=9.48$   $\sigma_{ID,max}=450.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4610.36$   $T_z=38.22$   $M_y=-15.76$   $T_y=8.42$   $M_x=4.38$   
 $V,Ed=8.42$   $Vc,Rd,Red=7798.94$   $V,Ed/Vc,Rd,Red=0.00$



- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=38.22 Vc,Rd,Red=7798.94 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2147.17 T<sub>z</sub>=21.40 M<sub>y</sub>=-8.60 T<sub>y</sub>=5.09 M<sub>z</sub>=2.54 M<sub>x</sub>=12.72  
Tensioni:  $\sigma_N$ =-176.58  $\sigma_M$ =-37.97  $\tau$ =27.53  $\sigma_{max}$ =-214.55  
Tensioni:  $\sigma_N$ =-176.58  $\sigma_M$ =7.79  $\tau$ =31.49  $\tau_{max}$ =31.49  
Tensioni:  $\sigma_N$ =-176.58  $\sigma_M$ =-37.97  $\tau$ =27.53  $\sigma_{ID,max}$ =219.78

Asta n. 4998 (-15003 -15069) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4652.25 My,Ed=-29.05 Mz,Ed=1.21  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.04+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4652.23 T<sub>z</sub>=68.19 M<sub>y</sub>=-29.05 T<sub>y</sub>=3.04 M<sub>z</sub>=1.21 M<sub>x</sub>=11.52  
Tensioni:  $\sigma_N$ =-382.58  $\sigma_M$ =-103.12  $\tau$ =24.94  $\sigma_{max}$ =-485.71  
Tensioni:  $\sigma_N$ =-382.58  $\sigma_M$ =3.71  $\tau$ =37.53  $\tau_{max}$ =37.53  
Tensioni:  $\sigma_N$ =-382.58  $\sigma_M$ =-103.12  $\tau$ =24.94  $\sigma_{ID,max}$ =487.62

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4652.25 T<sub>z</sub>=69.45 M<sub>y</sub>=-22.32 T<sub>y</sub>=3.04 M<sub>z</sub>=11.52  
V,Ed=3.04 Vc,Rd,Red=7704.97 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=69.45 Vc,Rd,Red=7704.97 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2159.45 T<sub>z</sub>=42.16 M<sub>y</sub>=-11.85 T<sub>y</sub>=2.07 M<sub>z</sub>=2.54 M<sub>x</sub>=14.34  
Tensioni:  $\sigma_N$ =-177.59  $\sigma_M$ =-49.04  $\tau$ =31.04  $\sigma_{max}$ =-226.63  
Tensioni:  $\sigma_N$ =-177.59  $\sigma_M$ =7.78  $\tau$ =38.83  $\tau_{max}$ =38.83  
Tensioni:  $\sigma_N$ =-177.59  $\sigma_M$ =-49.04  $\tau$ =31.04  $\sigma_{ID,max}$ =232.92

Asta n. 4998 (-15069 -15129) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4674.15 My,Ed=-40.44 Mz,Ed=1.28  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.05+0.00=0.22  
Verifica ZZ: 0.17+0.04+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.03 - Classe 3  
Sollecitazioni: N=-4674.15 T<sub>z</sub>=79.25 M<sub>y</sub>=-34.84 T<sub>y</sub>=-8.41 M<sub>z</sub>=1.06 M<sub>x</sub>=16.88  
Tensioni:  $\sigma_N$ =-384.39  $\sigma_M$ =-122.33  $\tau$ =36.52  $\sigma_{max}$ =-506.72  
Tensioni:  $\sigma_N$ =-384.39  $\sigma_M$ =3.25  $\tau$ =51.16  $\tau_{max}$ =51.16  
Tensioni:  $\sigma_N$ =-384.39  $\sigma_M$ =-122.33  $\tau$ =36.52  $\sigma_{ID,max}$ =510.65

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.04  
Sollecitazioni: N=-4674.15 T<sub>z</sub>=79.13 M<sub>y</sub>=-35.55 T<sub>y</sub>=-8.41 M<sub>z</sub>=16.88  
V,Ed=-8.41 Vc,Rd,Red=7634.52 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=79.13 Vc,Rd,Red=7634.52 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2171.03 T<sub>z</sub>=52.89 M<sub>y</sub>=-18.33 T<sub>y</sub>=-12.34 M<sub>z</sub>=-2.99 M<sub>x</sub>=15.60  
Tensioni:  $\sigma_N$ =-178.54  $\sigma_M$ =-72.65  $\tau$ =33.77  $\sigma_{max}$ =-251.19  
Tensioni:  $\sigma_N$ =-178.54  $\sigma_M$ =-9.18  $\tau$ =43.53  $\tau_{max}$ =43.53  
Tensioni:  $\sigma_N$ =-178.54  $\sigma_M$ =-72.65  $\tau$ =33.77  $\sigma_{ID,max}$ =257.90

Asta n. 4998 (-15129 -15203) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4695.16 My,Ed=-57.91 Mz,Ed=0.75  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.07+0.00=0.24  
 Verifica ZZ: 0.17+0.06+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.08 - Classe 3  
 Sollecitazioni: N=-4382.16 Tz=119.67 My=-55.04 Ty=3.23 Mz=-1.02 Mx=21.61  
 Tensioni:  $\sigma_N=-360.38$   $\sigma_M=-191.01$   $\tau=46.76$   $\sigma_{max}=-551.38$   
 Tensioni:  $\sigma_N=-360.38$   $\sigma_M=-3.12$   $\tau=68.86$   $\tau_{max}=68.86$   
 Tensioni:  $\sigma_N=-360.38$   $\sigma_M=-191.01$   $\tau=46.76$   $\sigma_{ID,max}=557.30$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
 Sollecitazioni: N=-4695.16 Tz=128.96 My=-45.37 Ty=7.19 Mz=21.92  
 V,Ed=7.19 Vc,Rd,Red=7568.12 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=128.96 Vc,Rd,Red=7568.12 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2188.75 Tz=81.85 My=-29.28 Ty=20.82 Mz=-4.46 Mx=16.61  
 Tensioni:  $\sigma_N=-180.00$   $\sigma_M=-114.97$   $\tau=35.95$   $\sigma_{max}=-294.96$   
 Tensioni:  $\sigma_N=-180.00$   $\sigma_M=-13.66$   $\tau=51.07$   $\tau_{max}=51.07$   
 Tensioni:  $\sigma_N=-180.00$   $\sigma_M=-114.97$   $\tau=35.95$   $\sigma_{ID,max}=301.46$

Asta n. 4998 (-15203 -15270) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4750.19 My,Ed=-78.13 Mz,Ed=3.04  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.10+0.00=0.27  
 Verifica ZZ: 0.17+0.08+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4750.17 Tz=142.33 My=-78.13 Ty=28.65 Mz=3.04 Mx=23.58  
 Tensioni:  $\sigma_N=-390.64$   $\sigma_M=-276.61$   $\tau=51.03$   $\sigma_{max}=-667.25$   
 Tensioni:  $\sigma_N=-390.64$   $\sigma_M=9.33$   $\tau=77.32$   $\tau_{max}=77.32$   
 Tensioni:  $\sigma_N=-390.64$   $\sigma_M=-276.61$   $\tau=51.03$   $\sigma_{ID,max}=673.08$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
 Sollecitazioni: N=-4750.19 Tz=143.56 My=-64.45 Ty=28.65 Mz=23.58  
 V,Ed=28.65 Vc,Rd,Red=7546.33 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=143.56 Vc,Rd,Red=7546.33 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2219.53 Tz=89.12 My=-42.04 Ty=56.81 Mz=9.35 Mx=17.01  
 Tensioni:  $\sigma_N=-182.53$   $\sigma_M=-175.13$   $\tau=36.82$   $\sigma_{max}=-357.66$   
 Tensioni:  $\sigma_N=-182.53$   $\sigma_M=28.69$   $\tau=53.29$   $\tau_{max}=53.29$   
 Tensioni:  $\sigma_N=-182.53$   $\sigma_M=-175.13$   $\tau=36.82$   $\sigma_{ID,max}=363.30$

Asta n. 4998 (-15270 -15336) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4730.73 My,Ed=-31.91 Mz,Ed=0.75  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.04+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 68 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-3626.33 T<sub>z</sub>=-71.02 M<sub>y</sub>=-30.08 T<sub>y</sub>=-1.05 M<sub>z</sub>=1.72 M<sub>x</sub>=-22.52  
Tensioni:  $\sigma_N=-298.22$   $\sigma_M=-108.38$   $\tau=48.73$   $\sigma_{max}=-406.60$   
Tensioni:  $\sigma_N=-298.22$   $\sigma_M=5.88$   $\tau=61.85$   $\tau_{max}=61.85$   
Tensioni:  $\sigma_N=-298.22$   $\sigma_M=-108.38$   $\tau=48.73$   $\sigma_{ID,max}=415.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU Xl=0.02  
Sollecitazioni: N=-3116.95 T<sub>z</sub>=-66.22 M<sub>y</sub>=-26.16 T<sub>y</sub>=9.59 M<sub>z</sub>=-17.70  
V,Ed=9.59 Vc,Rd,Red=7623.70 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-66.22 Vc,Rd,Red=7623.70 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2209.08 T<sub>z</sub>=-41.18 M<sub>y</sub>=-16.41 T<sub>y</sub>=55.32 M<sub>z</sub>=4.30 M<sub>x</sub>=-16.92  
Tensioni:  $\sigma_N=-181.67$   $\sigma_M=-70.57$   $\tau=36.62$   $\sigma_{max}=-252.24$   
Tensioni:  $\sigma_N=-181.67$   $\sigma_M=-50.32$   $\tau=46.84$   $\tau_{max}=46.84$   
Tensioni:  $\sigma_N=-181.67$   $\sigma_M=-69.11$   $\tau=43.78$   $\sigma_{ID,max}=261.99$

Asta n. 4998 (-15336 -15402) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4653.33 M<sub>y</sub>,Ed=-23.12 M<sub>z</sub>,Ed=0.35  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4336.55 T<sub>z</sub>=-42.53 M<sub>y</sub>=-15.59 T<sub>y</sub>=-6.55 M<sub>z</sub>=-1.05 M<sub>x</sub>=-15.97  
Tensioni:  $\sigma_N=-356.62$   $\sigma_M=-56.71$   $\tau=34.56$   $\sigma_{max}=-413.33$   
Tensioni:  $\sigma_N=-356.62$   $\sigma_M=-3.21$   $\tau=42.41$   $\tau_{max}=42.41$   
Tensioni:  $\sigma_N=-356.62$   $\sigma_M=-56.71$   $\tau=34.56$   $\sigma_{ID,max}=417.64$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-3557.00 T<sub>z</sub>=-67.26 M<sub>y</sub>=-13.63 T<sub>y</sub>=-5.66 M<sub>z</sub>=-21.35  
V,Ed=-5.66 Vc,Rd,Red=7575.67 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-67.26 Vc,Rd,Red=7575.67 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.02 - Classe 3  
Sollecitazioni: N=-2182.46 T<sub>z</sub>=-38.39 M<sub>y</sub>=-11.40 T<sub>y</sub>=18.69 M<sub>z</sub>=1.09 M<sub>x</sub>=-16.51  
Tensioni:  $\sigma_N=-179.48$   $\sigma_M=-42.57$   $\tau=35.72$   $\sigma_{max}=-222.05$   
Tensioni:  $\sigma_N=-179.48$   $\sigma_M=3.35$   $\tau=42.81$   $\tau_{max}=42.81$   
Tensioni:  $\sigma_N=-179.48$   $\sigma_M=-42.20$   $\tau=38.14$   $\sigma_{ID,max}=231.31$

Asta n. 4998 (-15402 -15468) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4619.06 M<sub>y</sub>,Ed=-15.94 M<sub>z</sub>,Ed=0.27  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4302.65 M<sub>y</sub>=-14.77 T<sub>y</sub>=1.12 M<sub>z</sub>=-1.19 M<sub>x</sub>=-11.77  
Tensioni:  $\sigma_N=-353.84$   $\sigma_M=-54.38$   $\tau=25.46$   $\sigma_{max}=-408.22$

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Tensioni:  $\sigma_N=-353.84$   $\sigma_M=-50.32$   $\tau=25.67$   $\tau_{max}=25.67$   
Tensioni:  $\sigma_N=-353.84$   $\sigma_M=-54.38$   $\tau=25.46$   $\sigma_{ID,max}=410.59$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-2646.30$   $T_z=-26.43$   $M_y=-6.58$   $T_y=2.13$   $M_x=-4.18$   
 $V,Ed=2.13$   $Vc,Rd,Red=7801.54$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-26.43$   $Vc,Rd,Red=7801.54$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-2179.75$   $T_z=-15.40$   $M_y=-8.82$   $T_y=7.52$   $M_z=-2.95$   $M_x=-14.94$   
Tensioni:  $\sigma_N=-179.26$   $\sigma_M=-40.11$   $\tau=32.33$   $\sigma_{max}=-219.36$   
Tensioni:  $\sigma_N=-179.26$   $\sigma_M=-9.03$   $\tau=35.18$   $\tau_{max}=35.18$   
Tensioni:  $\sigma_N=-179.26$   $\sigma_M=-40.11$   $\tau=32.33$   $\sigma_{ID,max}=226.40$

Asta n. 4998 (-15468 -15534) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4602.14$   $M_y,Ed=-14.68$   $M_z,Ed=0.61$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.00=0.19$   
Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-4283.25$   $T_z=-1.89$   $M_y=-14.83$   $T_y=4.92$   $M_z=-1.20$   $M_x=-7.00$   
Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-54.61$   $\tau=15.15$   $\sigma_{max}=-406.85$   
Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-45.47$   $\tau=16.06$   $\tau_{max}=16.06$   
Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-54.61$   $\tau=15.15$   $\sigma_{ID,max}=407.70$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.06$   
Sollecitazioni:  $N=-2637.29$   $T_z=-20.36$   $M_y=-4.17$   $T_y=3.15$   $M_x=-2.17$   
 $V,Ed=3.15$   $Vc,Rd,Red=7828.06$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-20.36$   $Vc,Rd,Red=7828.06$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-2184.93$   $T_z=-10.76$   $M_y=-8.87$   $T_y=3.96$   $M_z=-2.79$   $M_x=-13.35$   
Tensioni:  $\sigma_N=-179.68$   $\sigma_M=-39.75$   $\tau=28.90$   $\sigma_{max}=-219.43$   
Tensioni:  $\sigma_N=-179.68$   $\sigma_M=-8.57$   $\tau=30.88$   $\tau_{max}=30.88$   
Tensioni:  $\sigma_N=-179.68$   $\sigma_M=-39.75$   $\tau=28.90$   $\sigma_{ID,max}=225.06$

Asta n. 4998 (-15534 -15600) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4607.30$   $M_y,Ed=-16.53$   $M_z,Ed=1.34$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.00=0.19$   
Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-4607.28$   $T_z=23.25$   $M_y=-16.53$   $T_y=8.78$   $M_z=1.34$   
Tensioni:  $\sigma_N=-378.89$   $\sigma_M=-60.91$   $\tau=0.00$   $\sigma_{max}=-439.80$   
Tensioni:  $\sigma_N=-378.89$   $\sigma_M=4.11$   $\tau=4.30$   $\tau_{max}=4.30$   
Tensioni:  $\sigma_N=-378.89$   $\sigma_M=-60.91$   $\tau=0.00$   $\sigma_{ID,max}=439.80$

- Verifica a taglio dir. Y [4.2.16] - CC 75 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-4286.41$   $T_z=25.34$   $M_y=-15.30$   $T_y=8.79$   
 $V,Ed=8.79$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]

V,Ed=25.34 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2190.43 T<sub>z</sub>=12.40 M<sub>y</sub>=-9.35 T<sub>y</sub>=4.99 M<sub>z</sub>=2.81 M<sub>x</sub>=11.88  
Tensioni:  $\sigma_N$ =-180.13  $\sigma_M$ =-41.46  $\tau$ =25.70  $\sigma_{max}$ =-221.59  
Tensioni:  $\sigma_N$ =-180.13  $\sigma_M$ =8.62  $\tau$ =27.99  $\tau_{max}$ =27.99  
Tensioni:  $\sigma_N$ =-180.13  $\sigma_M$ =-41.46  $\tau$ =25.70  $\sigma_{ID,max}$ =226.02

Asta n. 4998 (-15600 -15666) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4630.13 M<sub>y</sub>,Ed=-19.70 M<sub>z</sub>,Ed=1.39  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463100.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463100.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4630.11 T<sub>z</sub>=17.86 M<sub>y</sub>=-19.70 T<sub>y</sub>=4.90 M<sub>z</sub>=1.39 M<sub>x</sub>=7.21  
Tensioni:  $\sigma_N$ =-380.76  $\sigma_M$ =-71.88  $\tau$ =15.60  $\sigma_{max}$ =-452.65  
Tensioni:  $\sigma_N$ =-380.76  $\sigma_M$ =4.28  $\tau$ =18.90  $\tau_{max}$ =18.90  
Tensioni:  $\sigma_N$ =-380.76  $\sigma_M$ =-71.88  $\tau$ =15.60  $\sigma_{ID,max}$ =453.45

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-2904.26 T<sub>z</sub>=27.46 M<sub>y</sub>=-7.84 T<sub>y</sub>=5.44 M<sub>x</sub>=-4.89  
V,Ed=5.44 Vc,Rd,Red=7792.32 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=27.46 Vc,Rd,Red=7792.32 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2196.25 T<sub>z</sub>=16.24 M<sub>y</sub>=-9.43 T<sub>y</sub>=2.34 M<sub>z</sub>=2.81 M<sub>x</sub>=13.08  
Tensioni:  $\sigma_N$ =-180.61  $\sigma_M$ =-41.71  $\tau$ =28.31  $\sigma_{max}$ =-222.32  
Tensioni:  $\sigma_N$ =-180.61  $\sigma_M$ =8.63  $\tau$ =31.31  $\tau_{max}$ =31.31  
Tensioni:  $\sigma_N$ =-180.61  $\sigma_M$ =-41.71  $\tau$ =28.31  $\sigma_{ID,max}$ =227.66

Asta n. 4998 (-15666 -15732) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4633.73 M<sub>y</sub>,Ed=-26.84 M<sub>z</sub>,Ed=1.37  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.06 - Classe 3  
Sollecitazioni: N=-4633.72 T<sub>z</sub>=54.73 M<sub>y</sub>=-24.91 T<sub>y</sub>=-5.83 M<sub>z</sub>=1.01 M<sub>x</sub>=14.16  
Tensioni:  $\sigma_N$ =-381.06  $\sigma_M$ =-88.31  $\tau$ =30.65  $\sigma_{max}$ =-469.37  
Tensioni:  $\sigma_N$ =-381.06  $\sigma_M$ =3.10  $\tau$ =40.76  $\tau_{max}$ =40.76  
Tensioni:  $\sigma_N$ =-381.06  $\sigma_M$ =-88.31  $\tau$ =30.65  $\sigma_{ID,max}$ =472.37

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-2917.33 T<sub>z</sub>=55.95 M<sub>y</sub>=-12.54 T<sub>y</sub>=-7.70 M<sub>x</sub>=-1.94  
V,Ed=-7.70 Vc,Rd,Red=7831.06 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=55.95 Vc,Rd,Red=7831.06 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2199.74 T<sub>z</sub>=40.80 M<sub>y</sub>=-10.61 T<sub>y</sub>=-7.24 M<sub>z</sub>=2.85 M<sub>x</sub>=14.48  
Tensioni:  $\sigma_N$ =-180.90  $\sigma_M$ =-45.86  $\tau$ =31.33  $\sigma_{max}$ =-226.76  
Tensioni:  $\sigma_N$ =-180.90  $\sigma_M$ =8.75  $\tau$ =38.87  $\tau_{max}$ =38.87  
Tensioni:  $\sigma_N$ =-180.90  $\sigma_M$ =-45.86  $\tau$ =31.33  $\sigma_{ID,max}$ =233.17

Asta n. 4998 (-15732 -15798) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4629.37 My,Ed=-34.08 Mz,Ed=0.64  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.04+0.00=0.21

Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-3782.21 T<sub>2</sub>=42.22 M<sub>y</sub>=-26.66 T<sub>y</sub>=1.80 M<sub>z</sub>=1.20 M<sub>x</sub>=15.43

Tensioni:  $\sigma_N=-311.04$   $\sigma_M=-94.94$   $\tau=33.39$   $\sigma_{max}=-405.97$

Tensioni:  $\sigma_N=-311.04$   $\sigma_M=3.69$   $\tau=41.19$   $\tau_{max}=41.19$

Tensioni:  $\sigma_N=-311.04$   $\sigma_M=-94.94$   $\tau=33.39$   $\sigma_{ID,max}=410.07$

- Verifica a taglio dir. Z [4.2.16] - CC 37 SLU Xl=0.00

Sollecitazioni: N=-2919.86 T<sub>2</sub>=64.77 M<sub>y</sub>=-20.78

V,Ed=64.77 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-2203.95 T<sub>2</sub>=47.04 M<sub>y</sub>=-16.07 T<sub>y</sub>=5.98 M<sub>z</sub>=-3.31 M<sub>x</sub>=15.56

Tensioni:  $\sigma_N=-181.25$   $\sigma_M=-66.06$   $\tau=33.66$   $\sigma_{max}=-247.30$

Tensioni:  $\sigma_N=-181.25$   $\sigma_M=-10.16$   $\tau=42.35$   $\tau_{max}=42.35$

Tensioni:  $\sigma_N=-181.25$   $\sigma_M=-66.06$   $\tau=33.66$   $\sigma_{ID,max}=254.08$

Asta n. 4998 (-15798 -15864) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4634.78 My,Ed=-47.92 Mz,Ed=2.38

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.06+0.00=0.23

Verifica ZZ: 0.17+0.05+0.00=0.22

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=-4634.76 T<sub>2</sub>=102.39 M<sub>y</sub>=-47.92 T<sub>y</sub>=21.27 M<sub>z</sub>=2.38 M<sub>x</sub>=24.53

Tensioni:  $\sigma_N=-381.15$   $\sigma_M=-171.43$   $\tau=53.09$   $\sigma_{max}=-552.58$

Tensioni:  $\sigma_N=-381.15$   $\sigma_M=7.31$   $\tau=72.00$   $\tau_{max}=72.00$

Tensioni:  $\sigma_N=-381.15$   $\sigma_M=-171.43$   $\tau=53.09$   $\sigma_{ID,max}=560.18$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00

Sollecitazioni: N=-4634.78 T<sub>2</sub>=103.65 M<sub>y</sub>=-37.85 T<sub>y</sub>=21.27 M<sub>x</sub>=24.53

V,Ed=21.27 Vc,Rd,Red=7533.83 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=103.65 Vc,Rd,Red=7533.83 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-2212.05 T<sub>2</sub>=77.11 M<sub>y</sub>=-26.37 T<sub>y</sub>=15.79 M<sub>z</sub>=4.42 M<sub>x</sub>=16.61

Tensioni:  $\sigma_N=-181.91$   $\sigma_M=-104.95$   $\tau=35.94$   $\sigma_{max}=-286.86$

Tensioni:  $\sigma_N=-181.91$   $\sigma_M=13.57$   $\tau=50.18$   $\tau_{max}=50.18$

Tensioni:  $\sigma_N=-181.91$   $\sigma_M=-104.95$   $\tau=35.94$   $\sigma_{ID,max}=293.54$

Asta n. 4998 (-15864 -15931) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4673.55 My,Ed=-63.91 Mz,Ed=5.15

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.08+0.01=0.26

Verifica ZZ: 0.17+0.06+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4673.53$   $T_z=113.25$   $M_y=-63.91$   $T_y=35.47$   $M_z=5.15$   $M_x=26.22$   
 Tensioni:  $\sigma_N=-384.34$   $\sigma_M=-235.31$   $\tau=56.75$   $\sigma_{max}=-619.65$   
 Tensioni:  $\sigma_N=-384.34$   $\sigma_M=15.79$   $\tau=77.66$   $\tau_{max}=77.66$   
 Tensioni:  $\sigma_N=-384.34$   $\sigma_M=-235.31$   $\tau=56.75$   $\sigma_{ID,max}=627.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2957.95$   $T_z=111.47$   $M_y=-45.86$   $T_y=14.06$   $M_x=4.27$   
 $V,Ed=14.06$   $Vc,Rd,Red=7800.36$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=111.47$   $Vc,Rd,Red=7800.36$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2232.88$   $T_z=85.87$   $M_y=-38.57$   $T_y=31.92$   $M_z=7.09$   $M_x=17.00$   
 Tensioni:  $\sigma_N=-183.63$   $\sigma_M=-155.62$   $\tau=36.78$   $\sigma_{max}=-339.24$   
 Tensioni:  $\sigma_N=-183.63$   $\sigma_M=21.76$   $\tau=52.64$   $\tau_{max}=52.64$   
 Tensioni:  $\sigma_N=-183.63$   $\sigma_M=-155.62$   $\tau=36.78$   $\sigma_{ID,max}=345.17$

Asta n. 4998 (-15931 -15997) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4577.83$   $M_y,Ed=-54.39$   $M_z,Ed=-5.49$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.07+0.01=0.24$   
 Verifica ZZ:  $0.17+0.05+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4577.83$   $T_z=-93.79$   $M_y=-54.39$   $T_y=61.81$   $M_z=-5.49$   $M_x=-7.33$   
 Tensioni:  $\sigma_N=-376.47$   $\sigma_M=-204.04$   $\tau=15.86$   $\sigma_{max}=-580.50$   
 Tensioni:  $\sigma_N=-376.47$   $\sigma_M=-16.83$   $\tau=33.19$   $\tau_{max}=33.19$   
 Tensioni:  $\sigma_N=-376.47$   $\sigma_M=-204.04$   $\tau=15.86$   $\sigma_{ID,max}=581.15$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4577.81$   $T_z=-95.03$   $M_y=-45.35$   $T_y=61.81$   $M_x=-7.33$   
 $V,Ed=61.81$   $Vc,Rd,Red=7760.18$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-95.03$   $Vc,Rd,Red=7760.18$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2195.63$   $T_z=-58.86$   $M_y=-24.54$   $T_y=67.90$   $M_z=-4.94$   $M_x=-12.85$   
 Tensioni:  $\sigma_N=-180.56$   $\sigma_M=-100.45$   $\tau=27.81$   $\sigma_{max}=-281.01$   
 Tensioni:  $\sigma_N=-180.56$   $\sigma_M=-75.26$   $\tau=40.36$   $\tau_{max}=40.36$   
 Tensioni:  $\sigma_N=-180.56$   $\sigma_M=-98.77$   $\tau=36.60$   $\sigma_{ID,max}=286.43$

Asta n. 4998 (-15997 -16063) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4475.21$   $M_y,Ed=-41.30$   $M_z,Ed=0.99$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.05+0.00=0.22$   
 Verifica ZZ:  $0.16+0.04+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4152.19$   $T_z=-62.35$   $M_y=-37.30$   $T_y=7.25$   $M_z=-1.18$   $M_x=-6.50$   
 Tensioni:  $\sigma_N=-341.46$   $\sigma_M=-131.13$   $\tau=14.07$   $\sigma_{max}=-472.59$   
 Tensioni:  $\sigma_N=-341.46$   $\sigma_M=-3.62$   $\tau=25.58$   $\tau_{max}=25.58$   
 Tensioni:  $\sigma_N=-341.46$   $\sigma_M=-131.13$   $\tau=14.07$   $\sigma_{ID,max}=473.22$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.04$

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Sollecitazioni:  $N=-3402.41$   $T_z=-81.85$   $M_y=-29.93$   $T_y=5.82$   $M_x=-10.71$   
 $V,Ed=5.82$   $V_c,Rd,Red=7715.65$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-81.85$   $V_c,Rd,Red=7715.65$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2161.12$   $T_z=-53.01$   $M_y=-16.94$   $T_y=19.84$   $M_z=-1.82$   $M_x=-12.18$   
Tensioni:  $\sigma_N=-177.72$   $\sigma_M=-63.90$   $\tau=26.35$   $\sigma_{max}=-241.63$   
Tensioni:  $\sigma_N=-177.72$   $\sigma_M=-5.57$   $\tau=36.14$   $\tau_{max}=36.14$   
Tensioni:  $\sigma_N=-177.72$   $\sigma_M=-63.29$   $\tau=28.92$   $\sigma_{ID,max}=246.16$

Asta n. 4998 (-16063 -16129) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4414.26$   $M_y,Ed=-30.62$   $M_z,Ed=1.03$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.04+0.00=0.20$   
Verifica ZZ:  $0.16+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4414.24$   $T_z=-36.14$   $M_y=-27.15$   $T_y=6.15$   $M_z=1.03$   
Tensioni:  $\sigma_N=-363.01$   $\sigma_M=-96.03$   $\tau=0.00$   $\sigma_{max}=-459.05$   
Tensioni:  $\sigma_N=-363.01$   $\sigma_M=3.16$   $\tau=6.68$   $\tau_{max}=6.68$   
Tensioni:  $\sigma_N=-363.01$   $\sigma_M=-96.03$   $\tau=0.00$   $\sigma_{ID,max}=459.05$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.09$   
Sollecitazioni:  $N=-4414.24$   $T_z=-36.03$   $M_y=-27.47$   $T_y=6.15$   
 $V,Ed=6.15$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-36.03$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2148.11$   $T_z=-25.88$   $M_y=-13.09$   $T_y=6.42$   $M_z=-2.74$   $M_x=11.33$   
Tensioni:  $\sigma_N=-176.65$   $\sigma_M=-53.94$   $\tau=24.52$   $\sigma_{max}=-230.59$   
Tensioni:  $\sigma_N=-176.65$   $\sigma_M=8.40$   $\tau=29.30$   $\tau_{max}=29.30$   
Tensioni:  $\sigma_N=-176.65$   $\sigma_M=-53.94$   $\tau=24.52$   $\sigma_{ID,max}=234.47$

Asta n. 4998 (-16129 -16195) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4369.94$   $M_y,Ed=-25.68$   $M_z,Ed=1.22$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.03+0.00=0.19$   
Verifica ZZ:  $0.16+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.06$  - Classe 3  
Sollecitazioni:  $N=-4369.93$   $T_z=-29.83$   $M_y=-23.85$   $T_y=5.37$   $M_z=1.02$   $M_x=4.45$   
Tensioni:  $\sigma_N=-359.37$   $\sigma_M=-84.75$   $\tau=9.64$   $\sigma_{max}=-444.12$   
Tensioni:  $\sigma_N=-359.37$   $\sigma_M=-3.14$   $\tau=15.15$   $\tau_{max}=15.15$   
Tensioni:  $\sigma_N=-359.37$   $\sigma_M=-84.75$   $\tau=9.64$   $\sigma_{ID,max}=444.43$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-4369.93$   $T_z=-29.72$   $M_y=-24.11$   $T_y=5.37$   $M_x=4.45$   
 $V,Ed=5.37$   $V_c,Rd,Red=7797.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-29.72$   $V_c,Rd,Red=7797.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2137.84$   $T_z=-18.76$   $M_y=-12.12$   $T_y=3.21$   $M_z=-2.89$   $M_x=12.05$



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Tensioni:  $\sigma_N=-175.81$   $\sigma_M=-51.17$   $\tau=26.08$   $\sigma_{max}=-226.98$   
 Tensioni:  $\sigma_N=-175.81$   $\sigma_M=8.87$   $\tau=29.54$   $\tau_{max}=29.54$   
 Tensioni:  $\sigma_N=-175.81$   $\sigma_M=-51.17$   $\tau=26.08$   $\sigma_{ID,max}=231.43$

Asta n. 4998 (-16195 -16261) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4334.00 My,Ed=-21.94 Mz,Ed=1.42  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.03+0.00=0.19  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.03 - Classe 3  
 Sollecitazioni: N=-4334.00 Tz=-14.52 My=-21.55 Ty=5.39 Mz=1.04 Mx=10.55  
 Tensioni:  $\sigma_N=-356.41$   $\sigma_M=-76.99$   $\tau=22.84$   $\sigma_{max}=-433.40$   
 Tensioni:  $\sigma_N=-356.41$   $\sigma_M=-3.19$   $\tau=25.52$   $\tau_{max}=25.52$   
 Tensioni:  $\sigma_N=-356.41$   $\sigma_M=-76.99$   $\tau=22.84$   $\sigma_{ID,max}=435.20$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.02  
 Sollecitazioni: N=-4334.00 Tz=-14.41 My=-21.68 Ty=5.39 Mx=10.55  
 V,Ed=5.39 Vc,Rd,Red=7717.73 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-14.41 Vc,Rd,Red=7717.73 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2124.83 Tz=-12.39 My=-11.35 Ty=2.79 Mz=2.94 Mx=12.64  
 Tensioni:  $\sigma_N=-174.74$   $\sigma_M=-48.68$   $\tau=27.36$   $\sigma_{max}=-223.42$   
 Tensioni:  $\sigma_N=-174.74$   $\sigma_M=-9.02$   $\tau=29.65$   $\tau_{max}=29.65$   
 Tensioni:  $\sigma_N=-174.74$   $\sigma_M=-48.68$   $\tau=27.36$   $\sigma_{ID,max}=228.39$

Asta n. 4998 (-16261 -16327) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4302.08 My,Ed=-19.70 Mz,Ed=1.86  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.00=0.18  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4302.08 Tz=-17.58 My=-19.70 Ty=6.79 Mz=1.19 Mx=16.20  
 Tensioni:  $\sigma_N=-353.79$   $\sigma_M=-71.19$   $\tau=35.05$   $\sigma_{max}=-424.98$   
 Tensioni:  $\sigma_N=-353.79$   $\sigma_M=-3.66$   $\tau=38.30$   $\tau_{max}=38.30$   
 Tensioni:  $\sigma_N=-353.79$   $\sigma_M=-71.19$   $\tau=35.05$   $\sigma_{ID,max}=429.29$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
 Sollecitazioni: N=5255.94 Tz=-26.61 My=-17.76 Ty=2.66 Mx=16.78  
 V,Ed=2.66 Vc,Rd,Red=7635.82 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-26.61 Vc,Rd,Red=7635.82 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2114.44 Tz=-16.41 My=-9.89 Ty=5.59 Mz=2.98 Mx=13.27  
 Tensioni:  $\sigma_N=-173.88$   $\sigma_M=-43.85$   $\tau=28.72$   $\sigma_{max}=-217.74$   
 Tensioni:  $\sigma_N=-173.88$   $\sigma_M=-9.14$   $\tau=31.75$   $\tau_{max}=31.75$   
 Tensioni:  $\sigma_N=-173.88$   $\sigma_M=-43.85$   $\tau=28.72$   $\sigma_{ID,max}=223.35$

Asta n. 4998 (-16327 -16393) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4281.73 My,Ed=-16.99 Mz,Ed=2.60

Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.00=0.18$   
 Verifica ZZ:  $0.16+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.08$  - Classe 3  
 Sollecitazioni:  $N=5271.80$   $T_z=-24.11$   $M_y=-14.40$   $T_y=6.89$   $M_z=1.02$   $M_x=20.06$   
 Tensioni:  $\sigma_N=433.54$   $\sigma_M=52.55$   $\tau=43.40$   $\sigma_{max}=486.08$   
 Tensioni:  $\sigma_N=433.54$   $\sigma_M=-3.14$   $\tau=47.86$   $\tau_{max}=47.86$   
 Tensioni:  $\sigma_N=433.54$   $\sigma_M=52.55$   $\tau=43.40$   $\sigma_{ID, max}=491.86$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2867.85$   $T_z=25.56$   $M_y=-10.33$   $T_y=5.79$   $M_x=-1.20$   
 $V, Ed=5.79$   $V_c, R_d, Red=7840.75$   $V, Ed/V_c, R_d, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=25.56$   $V_c, R_d, Red=7840.75$   $V, Ed/V_c, R_d, Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2107.72$   $T_z=-27.00$   $M_y=-8.89$   $T_y=6.44$   $M_z=3.91$   $M_x=13.77$   
 Tensioni:  $\sigma_N=-173.33$   $\sigma_M=-43.63$   $\tau=29.79$   $\sigma_{max}=-216.96$   
 Tensioni:  $\sigma_N=-173.33$   $\sigma_M=-12.00$   $\tau=34.78$   $\tau_{max}=34.78$   
 Tensioni:  $\sigma_N=-173.33$   $\sigma_M=-43.63$   $\tau=29.79$   $\sigma_{ID, max}=223.01$

Asta n. 4998 (-16393 -16459) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-4277.20$   $M_y, Ed=-15.35$   $M_z, Ed=4.41$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.01=0.18$   
 Verifica ZZ:  $0.16+0.02+0.01=0.18$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.01$  - Classe 3  
 Sollecitazioni:  $N=5280.85$   $T_z=-45.60$   $M_y=-11.61$   $T_y=16.91$   $M_z=1.06$   $M_x=22.08$   
 Tensioni:  $\sigma_N=434.28$   $\sigma_M=43.19$   $\tau=47.79$   $\sigma_{max}=477.47$   
 Tensioni:  $\sigma_N=434.28$   $\sigma_M=-3.26$   $\tau=56.22$   $\tau_{max}=56.22$   
 Tensioni:  $\sigma_N=434.28$   $\sigma_M=42.83$   $\tau=49.98$   $\sigma_{ID, max}=484.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=5280.85$   $T_z=-45.49$   $M_y=-12.02$   $T_y=16.91$   $M_x=22.08$   
 $V, Ed=16.91$   $V_c, R_d, Red=7566.01$   $V, Ed/V_c, R_d, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-45.49$   $V_c, R_d, Red=7566.01$   $V, Ed/V_c, R_d, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2102.77$   $T_z=-32.42$   $M_y=-11.83$   $T_y=9.56$   $M_z=4.55$   $M_x=14.29$   
 Tensioni:  $\sigma_N=-172.93$   $\sigma_M=-55.81$   $\tau=30.92$   $\sigma_{max}=-228.74$   
 Tensioni:  $\sigma_N=-172.93$   $\sigma_M=-13.95$   $\tau=36.91$   $\tau_{max}=36.91$   
 Tensioni:  $\sigma_N=-172.93$   $\sigma_M=-55.81$   $\tau=30.92$   $\sigma_{ID, max}=234.92$

Asta n. 4998 (-16459 -16525) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-4299.98$   $M_y, Ed=-15.89$   $M_z, Ed=8.04$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.01=0.19$   
 Verifica ZZ:  $0.16+0.02+0.01=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5299.84$   $T_z=-28.82$   $M_y=-5.36$   $T_y=25.46$   $M_z=2.02$   $M_x=23.40$   
 Tensioni:  $\sigma_N=435.84$   $\sigma_M=25.14$   $\tau=50.63$   $\sigma_{max}=460.99$   
 Tensioni:  $\sigma_N=435.84$   $\sigma_M=-6.19$   $\tau=55.96$   $\tau_{max}=55.96$   
 Tensioni:  $\sigma_N=435.84$   $\sigma_M=24.46$   $\tau=53.93$   $\sigma_{ID,max}=469.68$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2292.28$   $T_z=20.78$   $M_y=-11.95$   $T_y=25.67$   $M_z=18.69$   
 $V,Ed=25.67$   $V_c,Rd,Red=7610.69$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=20.78$   $V_c,Rd,Red=7610.69$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2103.58$   $T_z=58.38$   $M_y=-19.28$   $T_y=21.97$   $M_z=5.54$   $M_x=14.42$   
 Tensioni:  $\sigma_N=-172.99$   $\sigma_M=-84.57$   $\tau=31.20$   $\sigma_{max}=-257.56$   
 Tensioni:  $\sigma_N=-172.99$   $\sigma_M=17.00$   $\tau=41.99$   $\tau_{max}=41.99$   
 Tensioni:  $\sigma_N=-172.99$   $\sigma_M=-84.57$   $\tau=31.20$   $\sigma_{ID,max}=263.17$

Asta n. 4998 (-16525 -16591) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4348.55$   $M_y,Ed=-18.39$   $M_z,Ed=13.23$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.02=0.20$   
 Verifica ZZ:  $0.16+0.02+0.02=0.20$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5339.43$   $T_z=-62.26$   $M_y=6.06$   $T_y=50.15$   $M_z=8.95$   $M_x=23.18$   
 Tensioni:  $\sigma_N=439.10$   $\sigma_M=51.17$   $\tau=50.16$   $\sigma_{max}=490.26$   
 Tensioni:  $\sigma_N=439.10$   $\sigma_M=-27.46$   $\tau=61.67$   $\tau_{max}=61.67$   
 Tensioni:  $\sigma_N=439.10$   $\sigma_M=51.17$   $\tau=50.16$   $\sigma_{ID,max}=497.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.01$   
 Sollecitazioni:  $N=5339.41$   $T_z=-61.12$   $T_y=50.15$   $M_z=4.50$   $M_x=23.18$   
 $V,Ed=50.15$   $V_c,Rd,Red=7551.61$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-61.12$   $V_c,Rd,Red=7551.61$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2110.30$   $T_z=61.86$   $M_y=-28.34$   $T_y=40.89$   $M_z=6.40$   $M_x=14.26$   
 Tensioni:  $\sigma_N=-173.54$   $\sigma_M=-118.38$   $\tau=30.87$   $\sigma_{max}=-291.93$   
 Tensioni:  $\sigma_N=-173.54$   $\sigma_M=19.62$   $\tau=42.30$   $\tau_{max}=42.30$   
 Tensioni:  $\sigma_N=-173.54$   $\sigma_M=-118.38$   $\tau=30.87$   $\sigma_{ID,max}=296.78$
- Asta n. 4998 (-16591 -16558) Tubo 80x80x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4350.42$   $M_y,Ed=-18.33$   $M_z,Ed=13.05$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.02+0.02=0.20$   
 Verifica ZZ:  $0.16+0.02+0.02=0.20$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5336.97$   $T_z=63.30$   $M_y=6.35$   $T_y=-50.84$   $M_z=9.07$   $M_x=-22.57$   
 Tensioni:  $\sigma_N=438.90$   $\sigma_M=52.54$   $\tau=48.83$   $\sigma_{max}=491.43$   
 Tensioni:  $\sigma_N=438.90$   $\sigma_M=-27.80$   $\tau=60.53$   $\tau_{max}=60.53$   
 Tensioni:  $\sigma_N=438.90$   $\sigma_M=52.54$   $\tau=48.83$   $\sigma_{ID,max}=498.66$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.09$   
 Sollecitazioni:  $N=5336.95$   $T_z=62.15$   $T_y=-50.84$   $M_z=4.55$   $M_x=-22.57$

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V,Ed=-50.84 Vc,Rd,Red=7559.69 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=62.15 Vc,Rd,Red=7559.69 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2119.26 T<sub>z</sub>=-57.79 M<sub>y</sub>=-26.39 T<sub>y</sub>=-70.88 M<sub>z</sub>=7.79 M<sub>x</sub>=-14.77

Tensioni:  $\sigma_N$ =-174.28  $\sigma_M$ =-116.46  $\tau$ =31.97  $\sigma_{max}$ =-290.75

Tensioni:  $\sigma_N$ =-174.28  $\sigma_M$ =80.93  $\tau$ =45.07  $\tau_{max}$ =45.07

Tensioni:  $\sigma_N$ =-174.28  $\sigma_M$ =-116.46  $\tau$ =31.97  $\sigma_{ID,max}$ =295.97

Asta n. 4998 (-16558 -16492) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4301.86 M<sub>y</sub>,Ed=-15.85 M<sub>z</sub>,Ed=7.99

Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00

$\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.02+0.01=0.19

Verifica ZZ: 0.16+0.02+0.01=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=5298.07 T<sub>z</sub>=29.70 M<sub>y</sub>=-5.31 T<sub>y</sub>=-25.93 M<sub>z</sub>=2.01 M<sub>x</sub>=-22.74

Tensioni:  $\sigma_N$ =435.70  $\sigma_M$ =24.95  $\tau$ =49.20  $\sigma_{max}$ =460.64

Tensioni:  $\sigma_N$ =435.70  $\sigma_M$ =-6.16  $\tau$ =54.69  $\tau_{max}$ =54.69

Tensioni:  $\sigma_N$ =435.70  $\sigma_M$ =24.26  $\tau$ =52.56  $\sigma_{ID,max}$ =468.88

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.10

Sollecitazioni: N=-2290.16 T<sub>z</sub>=-17.58 M<sub>y</sub>=-11.41 T<sub>y</sub>=-29.97 M<sub>x</sub>=-18.74

V,Ed=-29.97 Vc,Rd,Red=7609.97 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-17.58 Vc,Rd,Red=7609.97 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2115.78 T<sub>z</sub>=-54.20 M<sub>y</sub>=-17.95 T<sub>y</sub>=-33.42 M<sub>z</sub>=4.50 M<sub>x</sub>=-14.73

Tensioni:  $\sigma_N$ =-174.00  $\sigma_M$ =-76.52  $\tau$ =31.87  $\sigma_{max}$ =-250.51

Tensioni:  $\sigma_N$ =-174.00  $\sigma_M$ =13.81  $\tau$ =41.89  $\tau_{max}$ =41.89

Tensioni:  $\sigma_N$ =-174.00  $\sigma_M$ =-76.52  $\tau$ =31.87  $\sigma_{ID,max}$ =256.52

Asta n. 4998 (-16492 -16426) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4279.02 M<sub>y</sub>,Ed=-15.41 M<sub>z</sub>,Ed=4.39

Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y$ =3.15 Ncr,y=25462900.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00

$\lambda_z$ =3.15 Ncr,z=25462900.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.02+0.01=0.18

Verifica ZZ: 0.16+0.02+0.01=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.09 - Classe 3

Sollecitazioni: N=5279.48 T<sub>z</sub>=45.68 M<sub>y</sub>=-11.60 T<sub>y</sub>=-17.06 M<sub>z</sub>=1.04 M<sub>x</sub>=-21.41

Tensioni:  $\sigma_N$ =434.17  $\sigma_M$ =43.10  $\tau$ =46.34  $\sigma_{max}$ =477.27

Tensioni:  $\sigma_N$ =434.17  $\sigma_M$ =-3.20  $\tau$ =54.78  $\tau_{max}$ =54.78

Tensioni:  $\sigma_N$ =434.17  $\sigma_M$ =42.74  $\tau$ =48.55  $\sigma_{ID,max}$ =484.27

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10

Sollecitazioni: N=5279.48 T<sub>z</sub>=45.57 M<sub>y</sub>=-12.01 T<sub>y</sub>=-17.06 M<sub>x</sub>=-21.41

V,Ed=-17.06 Vc,Rd,Red=7574.86 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=45.57 Vc,Rd,Red=7574.86 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2119.63 T<sub>z</sub>=29.10 M<sub>y</sub>=-11.23 T<sub>y</sub>=-13.79 M<sub>z</sub>=4.23 M<sub>x</sub>=-14.10

Tensioni:  $\sigma_N$ =-174.31  $\sigma_M$ =-52.67  $\tau$ =30.52  $\sigma_{max}$ =-226.98

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Tensioni:  $\sigma_N=-174.31$   $\sigma_M=-12.98$   $\tau=35.90$   $\tau_{max}=35.90$   
Tensioni:  $\sigma_N=-174.31$   $\sigma_M=-52.67$   $\tau=30.52$   $\sigma_{ID,max}=233.06$

Asta n. 4998 (-16426 -16360) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4283.79 My,Ed=-17.10 Mz,Ed=2.59  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.00=0.18  
Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3  
Sollecitazioni: N=5270.51 Tz=24.69 My=-14.42 Ty=-6.97 Mz=1.00 Mx=-19.38  
Tensioni:  $\sigma_N=433.43$   $\sigma_M=52.54$   $\tau=41.93$   $\sigma_{max}=485.97$   
Tensioni:  $\sigma_N=433.43$   $\sigma_M=-3.07$   $\tau=46.49$   $\tau_{max}=46.49$   
Tensioni:  $\sigma_N=433.43$   $\sigma_M=52.54$   $\tau=41.93$   $\sigma_{ID,max}=491.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.06  
Sollecitazioni: N=-3120.33 Tz=26.07 My=-15.86 Ty=-10.63 Mx=-27.33  
V,Ed=-10.63 Vc,Rd,Red=7496.98 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=26.07 Vc,Rd,Red=7496.98 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2129.31 Tz=23.96 My=-9.16 Ty=-5.82 Mz=3.86 Mx=-13.22  
Tensioni:  $\sigma_N=-175.11$   $\sigma_M=-44.36$   $\tau=28.61$   $\sigma_{max}=-219.46$   
Tensioni:  $\sigma_N=-175.11$   $\sigma_M=-11.83$   $\tau=33.03$   $\tau_{max}=33.03$   
Tensioni:  $\sigma_N=-175.11$   $\sigma_M=-44.36$   $\tau=28.61$   $\sigma_{ID,max}=224.99$

Asta n. 4998 (-16360 -16294) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4304.43 My,Ed=-19.72 Mz,Ed=1.86  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.00=0.19  
Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4304.43 Tz=16.75 My=-19.72 Ty=-6.51 Mz=1.23 Mx=-15.63  
Tensioni:  $\sigma_N=-353.98$   $\sigma_M=-71.36$   $\tau=33.82$   $\sigma_{max}=-425.35$   
Tensioni:  $\sigma_N=-353.98$   $\sigma_M=-3.76$   $\tau=36.91$   $\tau_{max}=36.91$   
Tensioni:  $\sigma_N=-353.98$   $\sigma_M=-71.36$   $\tau=33.82$   $\sigma_{ID,max}=429.36$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=5254.59 Tz=26.36 My=-17.83 Ty=-2.84 Mx=-16.13  
V,Ed=-2.84 Vc,Rd,Red=7644.42 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=26.36 Vc,Rd,Red=7644.42 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2140.42 Tz=14.29 My=-9.75 Ty=-3.34 Mz=3.43 Mx=-12.30  
Tensioni:  $\sigma_N=-176.02$   $\sigma_M=-44.91$   $\tau=26.62$   $\sigma_{max}=-220.93$   
Tensioni:  $\sigma_N=-176.02$   $\sigma_M=-10.52$   $\tau=29.26$   $\tau_{max}=29.26$   
Tensioni:  $\sigma_N=-176.02$   $\sigma_M=-44.91$   $\tau=26.62$   $\sigma_{ID,max}=225.69$

Asta n. 4998 (-16294 -16228) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4336.14 My,Ed=-21.98 Mz,Ed=1.45  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.16+0.03+0.00=0.19$

Verifica ZZ:  $0.16+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.08 - Classe 3  
 Sollecitazioni: N=-4336.13 T<sub>z</sub>=14.81 M<sub>y</sub>=-21.72 T<sub>y</sub>=-5.44 M<sub>z</sub>=1.01 M<sub>x</sub>=-9.97  
 Tensioni:  $\sigma_N=-356.59$   $\sigma_M=-77.46$   $\tau=21.57$   $\sigma_{max}=-434.05$   
 Tensioni:  $\sigma_N=-356.59$   $\sigma_M=-3.11$   $\tau=24.30$   $\tau_{max}=24.30$   
 Tensioni:  $\sigma_N=-356.59$   $\sigma_M=-77.46$   $\tau=21.57$   $\sigma_{ID,max}=435.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-3200.51 T<sub>z</sub>=17.53 M<sub>y</sub>=-21.52 T<sub>y</sub>=-1.87 M<sub>z</sub>=-16.97  
 V,Ed=-1.87 Vc,Rd,Red=7633.33 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=17.53 Vc,Rd,Red=7633.33 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2152.84 T<sub>z</sub>=11.59 M<sub>y</sub>=-10.91 T<sub>y</sub>=-3.03 M<sub>z</sub>=3.32 M<sub>x</sub>=-11.42  
 Tensioni:  $\sigma_N=-177.04$   $\sigma_M=-48.51$   $\tau=24.71$   $\sigma_{max}=-225.56$   
 Tensioni:  $\sigma_N=-177.04$   $\sigma_M=-10.19$   $\tau=26.85$   $\tau_{max}=26.85$   
 Tensioni:  $\sigma_N=-177.04$   $\sigma_M=-48.51$   $\tau=24.71$   $\sigma_{ID,max}=229.58$

Asta n. 4998 (-16228 -16162) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4370.98 M<sub>y,Ed</sub>=-25.50 M<sub>z,Ed</sub>=1.24

Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.16+0.03+0.00=0.19$

Verifica ZZ:  $0.16+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.04 - Classe 3  
 Sollecitazioni: N=-4370.97 T<sub>z</sub>=27.97 M<sub>y</sub>=-23.79 T<sub>y</sub>=-5.48 M<sub>z</sub>=1.04 M<sub>x</sub>=-3.95  
 Tensioni:  $\sigma_N=-359.45$   $\sigma_M=-84.61$   $\tau=8.54$   $\sigma_{max}=-444.06$   
 Tensioni:  $\sigma_N=-359.45$   $\sigma_M=-3.19$   $\tau=13.70$   $\tau_{max}=13.70$   
 Tensioni:  $\sigma_N=-359.45$   $\sigma_M=-84.61$   $\tau=8.54$   $\sigma_{ID,max}=444.31$

- Verifica a taglio dir. Y [4.2.16] - CC 68 SLU Xl=0.07  
 Sollecitazioni: N=-3295.92 T<sub>z</sub>=28.10 M<sub>y</sub>=-17.48 T<sub>y</sub>=-2.62  
 V,Ed=-2.62 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=28.10 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2164.99 T<sub>z</sub>=19.90 M<sub>y</sub>=-11.55 T<sub>y</sub>=-3.13 M<sub>z</sub>=-3.25 M<sub>x</sub>=-10.65  
 Tensioni:  $\sigma_N=-178.04$   $\sigma_M=-50.41$   $\tau=23.04$   $\sigma_{max}=-228.45$   
 Tensioni:  $\sigma_N=-178.04$   $\sigma_M=9.95$   $\tau=26.72$   $\tau_{max}=26.72$   
 Tensioni:  $\sigma_N=-178.04$   $\sigma_M=-50.41$   $\tau=23.04$   $\sigma_{ID,max}=231.91$

Asta n. 4998 (-16162 -16096) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4413.86 M<sub>y,Ed</sub>=-30.43 M<sub>z,Ed</sub>=1.03

Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.16+0.04+0.00=0.20$

Verifica ZZ:  $0.16+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

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Sollecitazioni:  $N=-4413.84$   $T_x=36.42$   $M_y=-26.93$   $T_y=-6.43$   $M_z=1.03$   $M_x=1.42$

Tensioni:  $\sigma_N=-362.98$   $\sigma_M=-95.29$   $\tau=3.08$   $\sigma_{max}=-458.27$

Tensioni:  $\sigma_N=-362.98$   $\sigma_M=3.17$   $\tau=9.80$   $\tau_{max}=9.80$

Tensioni:  $\sigma_N=-362.98$   $\sigma_M=-95.29$   $\tau=3.08$   $\sigma_{ID,max}=458.30$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.01$

Sollecitazioni:  $N=-4413.84$   $T_x=36.31$   $M_y=-27.25$   $T_y=-6.43$   $M_z=1.42$

$V,Ed=-6.43$   $Vc,Rd,Red=7837.90$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=36.31$   $Vc,Rd,Red=7837.90$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-2175.38$   $T_x=28.90$   $M_y=-12.69$   $T_y=-4.17$   $M_z=-3.24$   $M_x=-9.99$

Tensioni:  $\sigma_N=-178.90$   $\sigma_M=-54.28$   $\tau=21.61$   $\sigma_{max}=-233.18$

Tensioni:  $\sigma_N=-178.90$   $\sigma_M=9.94$   $\tau=26.95$   $\tau_{max}=26.95$

Tensioni:  $\sigma_N=-178.90$   $\sigma_M=-54.28$   $\tau=21.61$   $\sigma_{ID,max}=236.16$

Asta n. 4998 (-16096 -16030) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4468.18$   $M_y,Ed=-40.59$   $M_z,Ed=0.93$

Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.16+0.05+0.00=0.22$

Verifica ZZ:  $0.16+0.04+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-4142.15$   $T_x=58.31$   $M_y=-36.90$   $T_y=-8.10$   $M_z=-1.36$   $M_x=6.69$

Tensioni:  $\sigma_N=-340.64$   $\sigma_M=-130.37$   $\tau=14.49$   $\sigma_{max}=-471.01$

Tensioni:  $\sigma_N=-340.64$   $\sigma_M=-4.16$   $\tau=25.25$   $\tau_{max}=25.25$

Tensioni:  $\sigma_N=-340.64$   $\sigma_M=-130.37$   $\tau=14.49$   $\sigma_{ID,max}=471.67$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.03$

Sollecitazioni:  $N=-3392.86$   $T_x=77.84$   $M_y=-27.87$   $T_y=-7.64$   $M_z=10.34$

$V,Ed=-7.64$   $Vc,Rd,Red=7720.57$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=77.84$   $Vc,Rd,Red=7720.57$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-2187.55$   $T_x=55.02$   $M_y=-18.34$   $T_y=-11.94$   $M_z=-2.94$   $M_x=11.15$

Tensioni:  $\sigma_N=-179.90$   $\sigma_M=-72.51$   $\tau=24.13$   $\sigma_{max}=-252.41$

Tensioni:  $\sigma_N=-179.90$   $\sigma_M=-9.01$   $\tau=34.29$   $\tau_{max}=34.29$

Tensioni:  $\sigma_N=-179.90$   $\sigma_M=-72.51$   $\tau=24.13$   $\sigma_{ID,max}=255.85$

Asta n. 4998 (-16030 -15964) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4546.57$   $M_y,Ed=-53.33$   $M_z,Ed=-4.95$

Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.14$   $Ncr,y=25486300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.14$   $Ncr,z=25486300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.17+0.07+0.01=0.24$

Verifica ZZ:  $0.17+0.05+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-4546.57$   $T_x=88.79$   $M_y=-53.33$   $T_y=-55.06$   $M_z=-4.95$   $M_x=7.66$

Tensioni:  $\sigma_N=-373.89$   $\sigma_M=-198.60$   $\tau=16.57$   $\sigma_{max}=-572.49$

Tensioni:  $\sigma_N=-373.89$   $\sigma_M=-15.18$   $\tau=32.98$   $\tau_{max}=32.98$

Tensioni:  $\sigma_N=-373.89$   $\sigma_M=-198.60$   $\tau=16.57$   $\sigma_{ID,max}=573.21$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$

Sollecitazioni:  $N=-4546.55$   $T_x=90.05$   $M_y=-44.60$   $T_y=-55.06$   $M_z=7.66$

$V,Ed=-55.06$   $Vc,Rd,Red=7755.83$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=90.05 Vc,Rd,Red=7755.83 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2210.95 T<sub>z</sub>=61.81 M<sub>y</sub>=-27.03 T<sub>y</sub>=-46.09 M<sub>z</sub>=-2.54 M<sub>x</sub>=11.82  
Tensioni: σ<sub>N</sub>=-181.82 σ<sub>M</sub>=-100.78 τ=25.59 σ<sub>max</sub>=-282.60  
Tensioni: σ<sub>N</sub>=-181.82 σ<sub>M</sub>=-7.79 τ=37.01 τ<sub>max</sub>=37.01  
Tensioni: σ<sub>N</sub>=-181.82 σ<sub>M</sub>=-99.91 τ=31.56 σ<sub>ID,max</sub>=286.99

Asta n. 4998 (-15964 -15898) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4643.27 M<sub>y</sub>,Ed=-63.19 M<sub>z</sub>,Ed=5.10  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.78  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25440600.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25440600.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.08+0.01=0.26  
Verifica ZZ: 0.17+0.06+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4643.25 T<sub>z</sub>=-108.25 M<sub>y</sub>=-63.19 T<sub>y</sub>=-35.75 M<sub>z</sub>=5.10 M<sub>x</sub>=-25.73  
Tensioni: σ<sub>N</sub>=-381.85 σ<sub>M</sub>=-232.73 τ=55.67 σ<sub>max</sub>=-614.58  
Tensioni: σ<sub>N</sub>=-381.85 σ<sub>M</sub>=15.65 τ=75.67 τ<sub>max</sub>=75.67  
Tensioni: σ<sub>N</sub>=-381.85 σ<sub>M</sub>=-232.73 τ=55.67 σ<sub>ID,max</sub>=622.10

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
Sollecitazioni: N=-4327.46 T<sub>z</sub>=-99.90 M<sub>y</sub>=-49.84 T<sub>y</sub>=-41.98 M<sub>z</sub>=-23.69  
V,Ed=-41.98 Vc,Rd,Red=7544.86 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-99.90 Vc,Rd,Red=7544.86 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2260.72 T<sub>z</sub>=-80.25 M<sub>y</sub>=-36.54 T<sub>y</sub>=-37.71 M<sub>z</sub>=3.61 M<sub>x</sub>=-16.33  
Tensioni: σ<sub>N</sub>=-185.91 σ<sub>M</sub>=-136.80 τ=35.34 σ<sub>max</sub>=-322.72  
Tensioni: σ<sub>N</sub>=-185.91 σ<sub>M</sub>=11.07 τ=50.17 τ<sub>max</sub>=50.17  
Tensioni: σ<sub>N</sub>=-185.91 σ<sub>M</sub>=-136.80 τ=35.34 σ<sub>ID,max</sub>=328.47

Asta n. 4998 (-15898 -15831) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4630.22 M<sub>y</sub>,Ed=-47.45 M<sub>z</sub>,Ed=2.22  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.06+0.00=0.23  
Verifica ZZ: 0.17+0.05+0.00=0.22

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4630.20 T<sub>z</sub>=-98.25 M<sub>y</sub>=-47.45 T<sub>y</sub>=-20.11 M<sub>z</sub>=2.22 M<sub>x</sub>=-24.05  
Tensioni: σ<sub>N</sub>=-380.77 σ<sub>M</sub>=-169.25 τ=52.05 σ<sub>max</sub>=-550.03  
Tensioni: σ<sub>N</sub>=-380.77 σ<sub>M</sub>=6.80 τ=70.19 τ<sub>max</sub>=70.19  
Tensioni: σ<sub>N</sub>=-380.77 σ<sub>M</sub>=-169.25 τ=52.05 σ<sub>ID,max</sub>=557.37

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4630.22 T<sub>z</sub>=-99.50 M<sub>y</sub>=-37.79 T<sub>y</sub>=-20.11 M<sub>z</sub>=-24.05  
V,Ed=-20.11 Vc,Rd,Red=7540.14 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-99.50 Vc,Rd,Red=7540.14 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2257.89 T<sub>z</sub>=-73.02 M<sub>y</sub>=-24.80 T<sub>y</sub>=-13.75 M<sub>z</sub>=3.49 M<sub>x</sub>=-15.86  
Tensioni: σ<sub>N</sub>=-185.68 σ<sub>M</sub>=-96.42 τ=34.32 σ<sub>max</sub>=-282.10  
Tensioni: σ<sub>N</sub>=-185.68 σ<sub>M</sub>=10.71 τ=47.81 τ<sub>max</sub>=47.81



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Tensioni:  $\sigma_N=-185.68$   $\sigma_M=-96.42$   $\tau=34.32$   $\sigma_{ID,max}=288.29$

Asta n. 4998 (-15831 -15765) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4632.26 My,Ed=-34.09 Mz,Ed=0.59  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.04+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.20
  - Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-3787.25 Tz=-42.86 My=-26.74 Mz=1.15 Mx=-15.23  
Tensioni:  $\sigma_N=-311.45$   $\sigma_M=-95.05$   $\tau=32.97$   $\sigma_{max}=-406.50$   
Tensioni:  $\sigma_N=-311.45$   $\sigma_M=3.93$   $\tau=40.89$   $\tau_{max}=40.89$   
Tensioni:  $\sigma_N=-311.45$   $\sigma_M=-95.05$   $\tau=32.97$   $\sigma_{ID,max}=410.49$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4632.26 Tz=-51.36 My=-29.13 Ty=-1.01 Mx=-19.12  
V,Ed=-1.01 Vc,Rd,Red=7605.04 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-51.36 Vc,Rd,Red=7605.04 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2259.25 Tz=-44.02 My=-15.15 Ty=-1.22 Mz=-3.26 Mx=-14.69  
Tensioni:  $\sigma_N=-185.79$   $\sigma_M=-62.73$   $\tau=31.79$   $\sigma_{max}=-248.52$   
Tensioni:  $\sigma_N=-185.79$   $\sigma_M=-10.00$   $\tau=39.92$   $\tau_{max}=39.92$   
Tensioni:  $\sigma_N=-185.79$   $\sigma_M=-62.73$   $\tau=31.79$   $\sigma_{ID,max}=254.55$

Asta n. 4998 (-15765 -15699) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4638.04 My,Ed=-26.87 Mz,Ed=1.41  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.20
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-4638.02 Tz=-52.51 My=-25.02 Ty=6.01 Mz=1.03 Mx=-13.83  
Tensioni:  $\sigma_N=-381.42$   $\sigma_M=-88.76$   $\tau=29.94$   $\sigma_{max}=-470.18$   
Tensioni:  $\sigma_N=-381.42$   $\sigma_M=3.17$   $\tau=39.64$   $\tau_{max}=39.64$   
Tensioni:  $\sigma_N=-381.42$   $\sigma_M=-88.76$   $\tau=29.94$   $\sigma_{ID,max}=473.03$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.03  
Sollecitazioni: N=-4638.02 Tz=-52.40 My=-25.48 Ty=6.01 Mx=-13.83  
V,Ed=6.01 Vc,Rd,Red=7674.56 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-52.40 Vc,Rd,Red=7674.56 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2261.25 Tz=-37.75 My=-10.99 Ty=3.88 Mz=3.15 Mx=-13.47  
Tensioni:  $\sigma_N=-185.96$   $\sigma_M=-48.19$   $\tau=29.16$   $\sigma_{max}=-234.15$   
Tensioni:  $\sigma_N=-185.96$   $\sigma_M=9.67$   $\tau=36.13$   $\tau_{max}=36.13$   
Tensioni:  $\sigma_N=-185.96$   $\sigma_M=-48.19$   $\tau=29.16$   $\sigma_{ID,max}=239.53$

Asta n. 4998 (-15699 -15633) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4635.08 My,Ed=-19.98 Mz,Ed=1.42  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.02+0.00=0.20  
 Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4635.06 T<sub>z</sub>=-19.02 M<sub>y</sub>=-19.98 T<sub>y</sub>=-4.93 M<sub>z</sub>=1.42 M<sub>x</sub>=-7.01  
 Tensioni:  $\sigma_N=-381.17$   $\sigma_M=-72.91$   $\tau=15.16$   $\sigma_{max}=-454.08$   
 Tensioni:  $\sigma_N=-381.17$   $\sigma_M=4.36$   $\tau=18.67$   $\tau_{max}=18.67$   
 Tensioni:  $\sigma_N=-381.17$   $\sigma_M=-72.91$   $\tau=15.16$   $\sigma_{ID,max}=454.84$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-4302.17 T<sub>z</sub>=-20.65 M<sub>y</sub>=-19.39 T<sub>y</sub>=-4.52 M<sub>z</sub>=-6.02  
 V,Ed=-4.52 Vc,Rd,Red=7777.45 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-20.65 Vc,Rd,Red=7777.45 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2260.93 T<sub>z</sub>=-14.93 M<sub>y</sub>=-9.72 T<sub>y</sub>=-2.40 M<sub>z</sub>=3.28 M<sub>x</sub>=-12.08  
 Tensioni:  $\sigma_N=-185.93$   $\sigma_M=-44.30$   $\tau=26.13$   $\sigma_{max}=-230.23$   
 Tensioni:  $\sigma_N=-185.93$   $\sigma_M=10.06$   $\tau=28.89$   $\tau_{max}=28.89$   
 Tensioni:  $\sigma_N=-185.93$   $\sigma_M=-44.30$   $\tau=26.13$   $\sigma_{ID,max}=234.63$

Asta n. 4998 (-15633 -15567) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4612.19 M<sub>y,Ed</sub>=-16.69 M<sub>z,Ed</sub>=1.37  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.02+0.00=0.19  
 Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4612.17 T<sub>z</sub>=-22.17 M<sub>y</sub>=-16.69 T<sub>y</sub>=-8.92 M<sub>z</sub>=1.37  
 Tensioni:  $\sigma_N=-379.29$   $\sigma_M=-61.54$   $\tau=0.00$   $\sigma_{max}=-440.83$   
 Tensioni:  $\sigma_N=-379.29$   $\sigma_M=4.19$   $\tau=4.10$   $\tau_{max}=4.10$   
 Tensioni:  $\sigma_N=-379.29$   $\sigma_M=-61.54$   $\tau=0.00$   $\sigma_{ID,max}=440.83$

- Verifica a taglio dir. Y [4.2.16] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-4281.98 T<sub>z</sub>=-24.11 M<sub>y</sub>=-15.73 T<sub>y</sub>=-8.66  
 V,Ed=-8.66 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=-24.11 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2255.38 T<sub>z</sub>=-11.35 M<sub>y</sub>=-9.39 T<sub>y</sub>=-4.40 M<sub>z</sub>=3.27 M<sub>x</sub>=-10.97  
 Tensioni:  $\sigma_N=-185.47$   $\sigma_M=-43.16$   $\tau=23.74$   $\sigma_{max}=-228.63$   
 Tensioni:  $\sigma_N=-185.47$   $\sigma_M=10.04$   $\tau=25.83$   $\tau_{max}=25.83$   
 Tensioni:  $\sigma_N=-185.47$   $\sigma_M=-43.16$   $\tau=23.74$   $\sigma_{ID,max}=232.30$

Asta n. 4998 (-15567 -15501) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4606.98 M<sub>y,Ed</sub>=-14.68 M<sub>z,Ed</sub>=0.62  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.02+0.00=0.19  
 Verifica ZZ: 0.17+0.01+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4278.79 M<sub>y</sub>=-15.05 T<sub>y</sub>=-5.13 M<sub>z</sub>=-1.27 M<sub>x</sub>=6.95

Tensioni:  $\sigma_N=-351.87$   $\sigma_M=-55.60$   $\tau=15.04$   $\sigma_{max}=-407.48$   
 Tensioni:  $\sigma_N=-351.87$   $\sigma_M=-51.29$   $\tau=15.99$   $\tau_{max}=15.99$   
 Tensioni:  $\sigma_N=-351.87$   $\sigma_M=-55.60$   $\tau=15.04$   $\sigma_{ID,max}=408.31$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.04$   
 Sollecitazioni:  $N=-2643.95$   $T_z=18.77$   $M_y=-4.40$   $T_y=-3.17$   $M_x=2.16$   
 $V,Ed=-3.17$   $Vc,Rd,Red=7828.13$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=18.77$   $Vc,Rd,Red=7828.13$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2251.46$   $T_z=13.24$   $M_y=-8.68$   $T_y=-3.18$   $M_z=-3.17$   $M_x=12.76$   
 Tensioni:  $\sigma_N=-185.15$   $\sigma_M=-40.36$   $\tau=27.62$   $\sigma_{max}=-225.51$   
 Tensioni:  $\sigma_N=-185.15$   $\sigma_M=-9.72$   $\tau=30.06$   $\tau_{max}=30.06$   
 Tensioni:  $\sigma_N=-185.15$   $\sigma_M=-40.36$   $\tau=27.62$   $\sigma_{ID,max}=230.53$

Asta n. 4998 (-15501 -15435) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4624.25$   $M_y,Ed=-15.93$   $M_z,Ed=0.26$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.02+0.00=0.19$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4297.27$   $M_y=-15.01$   $T_y=-1.96$   $M_z=-1.33$   $M_x=11.76$   
 Tensioni:  $\sigma_N=-353.39$   $\sigma_M=-55.68$   $\tau=25.45$   $\sigma_{max}=-409.07$   
 Tensioni:  $\sigma_N=-353.39$   $\sigma_M=-51.16$   $\tau=25.81$   $\tau_{max}=25.81$   
 Tensioni:  $\sigma_N=-353.39$   $\sigma_M=-55.68$   $\tau=25.45$   $\sigma_{ID,max}=411.44$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2653.66$   $T_z=26.69$   $M_y=-6.52$   $T_y=-2.12$   $M_x=4.21$   
 $V,Ed=-2.12$   $Vc,Rd,Red=7801.16$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=26.69$   $Vc,Rd,Red=7801.16$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2250.44$   $T_z=19.08$   $M_y=-8.32$   $T_y=-5.12$   $M_z=-3.28$   $M_x=14.57$   
 Tensioni:  $\sigma_N=-185.07$   $\sigma_M=-39.55$   $\tau=31.54$   $\sigma_{max}=-224.62$   
 Tensioni:  $\sigma_N=-185.07$   $\sigma_M=-10.07$   $\tau=35.07$   $\tau_{max}=35.07$   
 Tensioni:  $\sigma_N=-185.07$   $\sigma_M=-39.55$   $\tau=31.54$   $\sigma_{ID,max}=231.16$

Asta n. 4998 (-15435 -15369) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4657.03$   $M_y,Ed=-22.47$   $M_z,Ed=0.37$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.03+0.00=0.20$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.03$  - Classe 3  
 Sollecitazioni:  $N=-4328.51$   $T_z=37.24$   $M_y=-16.75$   $T_y=5.88$   $M_z=-1.01$   $M_x=15.77$   
 Tensioni:  $\sigma_N=-355.96$   $\sigma_M=-60.52$   $\tau=34.12$   $\sigma_{max}=-416.49$   
 Tensioni:  $\sigma_N=-355.96$   $\sigma_M=-3.11$   $\tau=41.00$   $\tau_{max}=41.00$   
 Tensioni:  $\sigma_N=-355.96$   $\sigma_M=-60.52$   $\tau=34.12$   $\sigma_{ID,max}=420.66$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3546.63$   $T_z=61.88$   $M_y=-14.02$   $T_y=4.09$   $M_x=20.52$   
 $V,Ed=4.09$   $Vc,Rd,Red=7586.53$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=61.88 Vc,Rd,Red=7586.53 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2256.29 T<sub>z</sub>=42.24 M<sub>y</sub>=-11.61 T<sub>y</sub>=14.32 M<sub>z</sub>=-1.96 M<sub>x</sub>=16.21  
Tensioni:  $\sigma_N$ =-185.55  $\sigma_M$ =-46.23  $\tau$ =35.09  $\sigma_{max}$ =-231.78  
Tensioni:  $\sigma_N$ =-185.55  $\sigma_M$ =-6.00  $\tau$ =42.89  $\tau_{max}$ =42.89  
Tensioni:  $\sigma_N$ =-185.55  $\sigma_M$ =-46.23  $\tau$ =35.09  $\sigma_{ID,max}$ =239.61

Asta n. 4998 (-15369 -15303) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4736.77 M<sub>y</sub>,Ed=-30.84 M<sub>z</sub>,Ed=0.75  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.04+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5014.80 T<sub>z</sub>=1.52 M<sub>y</sub>=-18.91 T<sub>y</sub>=22.91 M<sub>z</sub>=1.66 M<sub>x</sub>=4.61  
Tensioni:  $\sigma_N$ =412.40  $\sigma_M$ =70.09  $\tau$ =9.97  $\sigma_{max}$ =482.50  
Tensioni:  $\sigma_N$ =412.40  $\sigma_M$ =58.00  $\tau$ =14.20  $\tau_{max}$ =14.20  
Tensioni:  $\sigma_N$ =412.40  $\sigma_M$ =70.09  $\tau$ =9.97  $\sigma_{ID,max}$ =482.80

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.01  
Sollecitazioni: N=-2721.55 T<sub>z</sub>=66.05 M<sub>y</sub>=-20.61 T<sub>y</sub>=-10.89 M<sub>x</sub>=7.01  
V,Ed=-10.89 Vc,Rd,Red=7764.40 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=66.05 Vc,Rd,Red=7764.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2286.13 T<sub>z</sub>=47.59 M<sub>y</sub>=-17.67 T<sub>y</sub>=-37.94 M<sub>z</sub>=-1.79 M<sub>x</sub>=16.66  
Tensioni:  $\sigma_N$ =-188.00  $\sigma_M$ =-66.31  $\tau$ =36.06  $\sigma_{max}$ =-254.32  
Tensioni:  $\sigma_N$ =-188.00  $\sigma_M$ =-5.49  $\tau$ =44.85  $\tau_{max}$ =44.85  
Tensioni:  $\sigma_N$ =-188.00  $\sigma_M$ =-65.70  $\tau$ =40.97  $\sigma_{ID,max}$ =263.44

Asta n. 4998 (-15303 -15237) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4756.08 M<sub>y</sub>,Ed=-77.68 M<sub>z</sub>,Ed=3.10  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.10+0.00=0.27  
Verifica ZZ: 0.17+0.08+0.00=0.26

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4756.06 T<sub>z</sub>=-142.57 M<sub>y</sub>=-77.68 T<sub>y</sub>=-30.22 M<sub>z</sub>=3.10 M<sub>x</sub>=-23.64  
Tensioni:  $\sigma_N$ =-391.12  $\sigma_M$ =-275.27  $\tau$ =51.17  $\sigma_{max}$ =-666.40  
Tensioni:  $\sigma_N$ =-391.12  $\sigma_M$ =9.51  $\tau$ =77.50  $\tau_{max}$ =77.50  
Tensioni:  $\sigma_N$ =-391.12  $\sigma_M$ =-275.27  $\tau$ =51.17  $\sigma_{ID,max}$ =672.26

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4756.08 T<sub>z</sub>=-143.81 M<sub>y</sub>=-63.97 T<sub>y</sub>=-30.22 M<sub>x</sub>=-23.64  
V,Ed=-30.22 Vc,Rd,Red=7545.48 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-143.81 Vc,Rd,Red=7545.48 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2307.59 T<sub>z</sub>=-88.88 M<sub>y</sub>=-40.82 T<sub>y</sub>=-29.40 M<sub>z</sub>=6.33 M<sub>x</sub>=-17.07  
Tensioni:  $\sigma_N$ =-189.77  $\sigma_M$ =-160.67  $\tau$ =36.94  $\sigma_{max}$ =-350.44  
Tensioni:  $\sigma_N$ =-189.77  $\sigma_M$ =19.42  $\tau$ =53.36  $\tau_{max}$ =53.36  
Tensioni:  $\sigma_N$ =-189.77  $\sigma_M$ =-160.67  $\tau$ =36.94  $\sigma_{ID,max}$ =356.23

Asta n. 4998 (-15237 -15170) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4699.49 My,Ed=-57.57 Mz,Ed=0.64  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.07+0.00=0.24

Verifica ZZ: 0.17+0.06+0.00=0.23

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.03 - Classe 3

Sollecitazioni: N=-4371.14 Tz=-113.33 My=-53.26 Ty=-5.27 Mz=-1.02 Mx=-21.64

Tensioni:  $\sigma_N=-359.47$   $\sigma_M=-184.99$   $\tau=46.83$   $\sigma_{max}=-544.46$

Tensioni:  $\sigma_N=-359.47$   $\sigma_M=-3.14$   $\tau=67.76$   $\tau_{max}=67.76$

Tensioni:  $\sigma_N=-359.47$   $\sigma_M=-184.99$   $\tau=46.83$   $\sigma_{ID,max}=550.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10

Sollecitazioni: N=-4699.49 Tz=-124.38 My=-45.48 Ty=-6.60 Mx=-21.99

V,Ed=-6.60 Vc,Rd,Red=7567.21 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-124.38 Vc,Rd,Red=7567.21 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2280.48 Tz=-78.76 My=-28.21 Ty=-9.88 Mz=-3.84 Mx=-16.64

Tensioni:  $\sigma_N=-187.54$   $\sigma_M=-109.21$   $\tau=36.02$   $\sigma_{max}=-296.75$

Tensioni:  $\sigma_N=-187.54$   $\sigma_M=-11.79$   $\tau=50.56$   $\tau_{max}=50.56$

Tensioni:  $\sigma_N=-187.54$   $\sigma_M=-109.21$   $\tau=36.02$   $\sigma_{ID,max}=303.24$

Asta n. 4998 (-15170 -15094) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4680.52 My,Ed=-40.61 Mz,Ed=1.31

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.05+0.00=0.22

Verifica ZZ: 0.17+0.04+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.07 - Classe 3

Sollecitazioni: N=-4680.51 Tz=-80.32 My=-34.94 Ty=9.16 Mz=1.06 Mx=-17.16

Tensioni:  $\sigma_N=-384.91$   $\sigma_M=-122.68$   $\tau=37.14$   $\sigma_{max}=-507.59$

Tensioni:  $\sigma_N=-384.91$   $\sigma_M=3.26$   $\tau=51.98$   $\tau_{max}=51.98$

Tensioni:  $\sigma_N=-384.91$   $\sigma_M=-122.68$   $\tau=37.14$   $\sigma_{ID,max}=511.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.06

Sollecitazioni: N=-4680.51 Tz=-80.21 My=-35.65 Ty=9.16 Mx=-17.16

V,Ed=9.16 Vc,Rd,Red=7630.78 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-80.21 Vc,Rd,Red=7630.78 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2268.19 Tz=-52.37 My=-17.84 Ty=7.33 Mz=-3.26 Mx=-15.60

Tensioni:  $\sigma_N=-186.53$   $\sigma_M=-71.88$   $\tau=33.75$   $\sigma_{max}=-258.41$

Tensioni:  $\sigma_N=-186.53$   $\sigma_M=-9.99$   $\tau=43.43$   $\tau_{max}=43.43$

Tensioni:  $\sigma_N=-186.53$   $\sigma_M=-71.88$   $\tau=33.75$   $\sigma_{ID,max}=264.94$

Asta n. 4998 (-15094 -15036) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4658.67 My,Ed=-29.14 Mz,Ed=1.23

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

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$\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.04+0.00=0.21  
Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4658.65 T<sub>z</sub>=-66.61 M<sub>y</sub>=-29.14 T<sub>y</sub>=-2.89 M<sub>z</sub>=1.23 M<sub>x</sub>=-11.76  
Tensioni:  $\sigma_N=-383.11$   $\sigma_M=-103.48$   $\tau=25.44$   $\sigma_{max}=-486.59$   
Tensioni:  $\sigma_N=-383.11$   $\sigma_M=3.76$   $\tau=37.75$   $\tau_{max}=37.75$   
Tensioni:  $\sigma_N=-383.11$   $\sigma_M=-103.48$   $\tau=25.44$   $\sigma_{ID,max}=488.58$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4658.67 T<sub>z</sub>=-67.87 M<sub>y</sub>=-22.57 T<sub>y</sub>=-2.89 M<sub>z</sub>=-11.76  
V,Ed=-2.89 Vc,Rd,Red=7701.89 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-67.87 Vc,Rd,Red=7701.89 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2258.21 T<sub>z</sub>=-40.73 M<sub>y</sub>=-12.43 T<sub>y</sub>=-1.46 M<sub>z</sub>=3.08 M<sub>x</sub>=-14.35  
Tensioni:  $\sigma_N=-185.71$   $\sigma_M=-52.85$   $\tau=31.05$   $\sigma_{max}=-238.56$   
Tensioni:  $\sigma_N=-185.71$   $\sigma_M=9.45$   $\tau=38.58$   $\tau_{max}=38.58$   
Tensioni:  $\sigma_N=-185.71$   $\sigma_M=-52.85$   $\tau=31.05$   $\sigma_{ID,max}=244.55$

Asta n. 4998 (-15036 -14970) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4616.56 My,Ed=-19.69 Mz,Ed=1.38  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.19
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4616.54 T<sub>z</sub>=-37.81 M<sub>y</sub>=-19.69 T<sub>y</sub>=-8.45 M<sub>z</sub>=1.38 M<sub>x</sub>=-4.70  
Tensioni:  $\sigma_N=-379.65$   $\sigma_M=-71.77$   $\tau=10.18$   $\sigma_{max}=-451.42$   
Tensioni:  $\sigma_N=-379.65$   $\sigma_M=4.22$   $\tau=17.16$   $\tau_{max}=17.16$   
Tensioni:  $\sigma_N=-379.65$   $\sigma_M=-71.77$   $\tau=10.18$   $\sigma_{ID,max}=451.76$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4616.56 T<sub>z</sub>=-39.07 M<sub>y</sub>=-15.93 T<sub>y</sub>=-8.45 M<sub>z</sub>=-4.70  
V,Ed=-8.45 Vc,Rd,Red=7794.69 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-39.07 Vc,Rd,Red=7794.69 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2244.24 T<sub>z</sub>=-21.39 M<sub>y</sub>=-9.42 T<sub>y</sub>=-4.05 M<sub>z</sub>=3.11 M<sub>x</sub>=-12.85  
Tensioni:  $\sigma_N=-184.56$   $\sigma_M=-42.71$   $\tau=27.81$   $\sigma_{max}=-227.27$   
Tensioni:  $\sigma_N=-184.56$   $\sigma_M=9.54$   $\tau=31.76$   $\tau_{max}=31.76$   
Tensioni:  $\sigma_N=-184.56$   $\sigma_M=-42.71$   $\tau=27.81$   $\sigma_{ID,max}=232.31$

Asta n. 4998 (-14970 -14904) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4598.08 My,Ed=-14.12 Mz,Ed=0.58  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.01+0.00=0.18
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-4284.39 T<sub>z</sub>=-35.24 M<sub>y</sub>=-13.14 T<sub>y</sub>=-3.66 M<sub>z</sub>=-1.01 M<sub>x</sub>=1.76  
Tensioni:  $\sigma_N=-352.33$   $\sigma_M=-48.21$   $\tau=3.82$   $\sigma_{max}=-400.55$

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Tensioni:  $\sigma_N=-352.33$   $\sigma_M=3.10$   $\tau=10.33$   $\tau_{max}=10.33$   
Tensioni:  $\sigma_N=-352.33$   $\sigma_M=-48.21$   $\tau=3.82$   $\sigma_{ID,max}=400.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.07$   
Sollecitazioni:  $N=-4284.38$   $T_z=-35.13$   $M_y=-13.45$   $T_y=-3.66$   $M_x=1.76$   
 $V,Ed=-3.66$   $V_c,Rd,Red=7833.38$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-35.13$   $V_c,Rd,Red=7833.38$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2234.95$   $T_z=-17.55$   $M_y=-8.12$   $T_y=-2.28$   $M_z=-3.00$   $M_x=11.86$   
Tensioni:  $\sigma_N=-183.79$   $\sigma_M=-37.90$   $\tau=25.67$   $\sigma_{max}=-221.69$   
Tensioni:  $\sigma_N=-183.79$   $\sigma_M=9.20$   $\tau=28.92$   $\tau_{max}=28.92$   
Tensioni:  $\sigma_N=-183.79$   $\sigma_M=-37.90$   $\tau=25.67$   $\sigma_{ID,max}=226.11$

Asta n. 4998 (-14904 -14838) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4607.50$   $M_y,Ed=-10.00$   $M_z,Ed=0.27$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.01+0.00=0.18$   
Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4296.65$   $T_z=-8.54$   $M_y=-11.26$   $T_y=-1.82$   $M_z=-1.04$   $M_x=8.25$   
Tensioni:  $\sigma_N=-353.34$   $\sigma_M=-41.93$   $\tau=17.85$   $\sigma_{max}=-395.28$   
Tensioni:  $\sigma_N=-353.34$   $\sigma_M=3.19$   $\tau=19.42$   $\tau_{max}=19.42$   
Tensioni:  $\sigma_N=-353.34$   $\sigma_M=-41.93$   $\tau=17.85$   $\sigma_{ID,max}=396.48$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-2637.40$   $T_z=15.29$   $M_y=-1.34$   $T_y=-1.67$   $M_x=4.40$   
 $V,Ed=-1.67$   $V_c,Rd,Red=7798.70$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=15.29$   $V_c,Rd,Red=7798.70$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2230.71$   $T_z=12.52$   $M_y=-7.10$   $T_y=-3.45$   $M_z=-3.13$   $M_x=13.93$   
Tensioni:  $\sigma_N=-183.45$   $\sigma_M=-34.86$   $\tau=30.14$   $\sigma_{max}=-218.31$   
Tensioni:  $\sigma_N=-183.45$   $\sigma_M=-9.59$   $\tau=32.45$   $\tau_{max}=32.45$   
Tensioni:  $\sigma_N=-183.45$   $\sigma_M=-34.86$   $\tau=30.14$   $\sigma_{ID,max}=224.46$

Asta n. 4998 (-14838 -14772) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4620.96$   $M_y,Ed=-9.78$   $M_z,Ed=0.17$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.01+0.00=0.18$   
Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4311.52$   $T_z=-9.96$   $M_y=-9.66$   $T_y=-1.68$   $M_z=-1.14$   $M_x=12.83$   
Tensioni:  $\sigma_N=-354.57$   $\sigma_M=-36.81$   $\tau=27.77$   $\sigma_{max}=-391.37$   
Tensioni:  $\sigma_N=-354.57$   $\sigma_M=3.51$   $\tau=29.61$   $\tau_{max}=29.61$   
Tensioni:  $\sigma_N=-354.57$   $\sigma_M=-36.81$   $\tau=27.77$   $\sigma_{ID,max}=394.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-2644.61$   $T_z=23.32$   $M_y=-3.72$   $T_y=-2.09$   $M_x=6.40$   
 $V,Ed=-2.09$   $V_c,Rd,Red=7772.38$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

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V,Ed=23.32 Vc,Rd,Red=7772.38 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2227.41 T<sub>z</sub>=18.40 M<sub>y</sub>=-6.93 T<sub>y</sub>=-6.80 M<sub>z</sub>=-3.09 M<sub>x</sub>=15.36  
Tensioni: σ<sub>N</sub>=-183.18 σ<sub>M</sub>=-34.16 τ=33.25 σ<sub>max</sub>=-217.34  
Tensioni: σ<sub>N</sub>=-183.18 σ<sub>M</sub>=-9.48 τ=36.64 τ<sub>max</sub>=36.64  
Tensioni: σ<sub>N</sub>=-183.18 σ<sub>M</sub>=-34.16 τ=33.25 σ<sub>ID,max</sub>=224.84

Asta n. 4998 (-14772 -14706) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4643.75 M<sub>y</sub>,Ed=-15.07 M<sub>z</sub>,Ed=0.37  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.01+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5018.81 T<sub>z</sub>=27.43 M<sub>y</sub>=-13.76 M<sub>z</sub>=-1.07 M<sub>x</sub>=6.28  
Tensioni: σ<sub>N</sub>=412.73 σ<sub>M</sub>=50.52 τ=13.60 σ<sub>max</sub>=463.25  
Tensioni: σ<sub>N</sub>=412.73 σ<sub>M</sub>=-3.64 τ=18.67 τ<sub>max</sub>=18.67  
Tensioni: σ<sub>N</sub>=412.73 σ<sub>M</sub>=50.52 τ=13.60 σ<sub>ID,max</sub>=463.85

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-3535.63 T<sub>z</sub>=57.24 M<sub>y</sub>=-9.05 T<sub>y</sub>=7.58 M<sub>x</sub>=25.29  
V,Ed=7.58 Vc,Rd,Red=7523.77 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=57.24 Vc,Rd,Red=7523.77 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2230.60 T<sub>z</sub>=39.24 M<sub>y</sub>=-11.26 T<sub>y</sub>=-15.88 M<sub>z</sub>=1.17 M<sub>x</sub>=16.61  
Tensioni: σ<sub>N</sub>=-183.44 σ<sub>M</sub>=-42.37 τ=35.95 σ<sub>max</sub>=-225.81  
Tensioni: σ<sub>N</sub>=-183.44 σ<sub>M</sub>=3.60 τ=43.20 τ<sub>max</sub>=43.20  
Tensioni: σ<sub>N</sub>=-183.44 σ<sub>M</sub>=-41.97 τ=38.00 σ<sub>ID,max</sub>=234.82

Asta n. 4998 (-14706 -14640) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4705.86 M<sub>y</sub>,Ed=-21.90 M<sub>z</sub>,Ed=0.88  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5051.00 T<sub>z</sub>=4.47 M<sub>y</sub>=-14.74 T<sub>y</sub>=28.47 M<sub>z</sub>=1.77 M<sub>x</sub>=7.02  
Tensioni: σ<sub>N</sub>=415.38 σ<sub>M</sub>=56.24 τ=15.20 σ<sub>max</sub>=471.62  
Tensioni: σ<sub>N</sub>=415.38 σ<sub>M</sub>=45.20 τ=20.46 τ<sub>max</sub>=20.46  
Tensioni: σ<sub>N</sub>=415.38 σ<sub>M</sub>=56.24 τ=15.20 σ<sub>ID,max</sub>=472.36

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.01  
Sollecitazioni: N=-2698.21 T<sub>z</sub>=62.47 M<sub>y</sub>=-16.84 T<sub>y</sub>=-6.96 M<sub>x</sub>=9.08  
V,Ed=-6.96 Vc,Rd,Red=7737.10 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=62.47 Vc,Rd,Red=7737.10 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2257.01 T<sub>z</sub>=44.22 M<sub>y</sub>=-17.31 T<sub>y</sub>=54.06 M<sub>z</sub>=3.98 M<sub>x</sub>=16.93  
Tensioni: σ<sub>N</sub>=-185.61 σ<sub>M</sub>=-72.55 τ=36.64 σ<sub>max</sub>=-258.16  
Tensioni: σ<sub>N</sub>=-185.61 σ<sub>M</sub>=53.10 τ=46.62 τ<sub>max</sub>=46.62  
Tensioni: σ<sub>N</sub>=-185.61 σ<sub>M</sub>=-72.55 τ=36.64 σ<sub>ID,max</sub>=265.84



Asta n. 4998 (-14640 -14572) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4670.76 My,Ed=-91.98 Mz,Ed=0.82  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.17+0.11+0.00=0.29  
 Verifica ZZ: 0.17+0.09+0.00=0.26
  - Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4355.15 T<sub>2</sub>=-166.84 M<sub>y</sub>=-88.42 T<sub>y</sub>=-3.05 M<sub>z</sub>=-1.08 M<sub>x</sub>=-26.27  
 Tensioni:  $\sigma_N=-358.15$   $\sigma_M=-305.00$   $\tau=56.86$   $\sigma_{max}=-663.15$   
 Tensioni:  $\sigma_N=-358.15$   $\sigma_M=-3.32$   $\tau=87.67$   $\tau_{max}=87.67$   
 Tensioni:  $\sigma_N=-358.15$   $\sigma_M=-305.00$   $\tau=56.86$   $\sigma_{ID,max}=670.42$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-4670.76 T<sub>2</sub>=-180.18 M<sub>y</sub>=-74.79 T<sub>y</sub>=-7.15 M<sub>x</sub>=-25.14  
 V,Ed=-7.15 Vc,Rd,Red=7525.81 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-180.18 Vc,Rd,Red=7525.81 V,Ed/Vc,Rd,Red=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2258.73 T<sub>2</sub>=-95.46 M<sub>y</sub>=-43.11 T<sub>y</sub>=-41.95 M<sub>z</sub>=7.82 M<sub>x</sub>=-18.07  
 Tensioni:  $\sigma_N=-185.75$   $\sigma_M=-173.56$   $\tau=39.11$   $\sigma_{max}=-359.31$   
 Tensioni:  $\sigma_N=-185.75$   $\sigma_M=23.98$   $\tau=56.74$   $\tau_{max}=56.74$   
 Tensioni:  $\sigma_N=-185.75$   $\sigma_M=-173.56$   $\tau=39.11$   $\sigma_{ID,max}=365.64$

Asta n. 4998 (-14572 -14502) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4609.71 My,Ed=-66.90 Mz,Ed=1.60  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY: 0.17+0.08+0.00=0.25  
 Verifica ZZ: 0.17+0.07+0.00=0.24
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.02 - Classe 3  
 Sollecitazioni: N=-4609.69 T<sub>2</sub>=-158.14 M<sub>y</sub>=-64.09 T<sub>y</sub>=6.78 M<sub>z</sub>=1.06 M<sub>x</sub>=-23.16  
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=-222.01$   $\tau=50.11$   $\sigma_{max}=-601.10$   
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=3.25$   $\tau=79.32$   $\tau_{max}=79.32$   
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=-222.01$   $\tau=50.11$   $\sigma_{ID,max}=607.33$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.01  
 Sollecitazioni: N=-4609.69 T<sub>2</sub>=-158.03 M<sub>y</sub>=-65.50 T<sub>y</sub>=6.78 M<sub>x</sub>=-23.16  
 V,Ed=6.78 Vc,Rd,Red=7551.91 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-158.03 Vc,Rd,Red=7551.91 V,Ed/Vc,Rd,Red=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2225.71 T<sub>2</sub>=-81.87 M<sub>y</sub>=-29.75 T<sub>y</sub>=18.33 M<sub>z</sub>=4.28 M<sub>x</sub>=-17.62  
 Tensioni:  $\sigma_N=-183.04$   $\sigma_M=-115.97$   $\tau=38.14$   $\sigma_{max}=-299.01$   
 Tensioni:  $\sigma_N=-183.04$   $\sigma_M=13.12$   $\tau=53.26$   $\tau_{max}=53.26$   
 Tensioni:  $\sigma_N=-183.04$   $\sigma_M=-115.97$   $\tau=38.14$   $\sigma_{ID,max}=306.22$

Asta n. 4998 (-14502 -14436) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4567.41 My,Ed=-44.92 Mz,Ed=1.57  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.06+0.00=0.23  
 Verifica ZZ: 0.17+0.04+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4567.39 T<sub>z</sub>=-96.12 M<sub>y</sub>=-44.92 T<sub>y</sub>=-4.98 M<sub>z</sub>=1.57 M<sub>x</sub>=-17.85  
 Tensioni: σ<sub>N</sub>=-375.61 σ<sub>M</sub>=-158.43 τ=38.64 σ<sub>max</sub>=-534.04  
 Tensioni: σ<sub>N</sub>=-375.61 σ<sub>M</sub>=4.83 τ=56.39 τ<sub>max</sub>=56.39  
 Tensioni: σ<sub>N</sub>=-375.61 σ<sub>M</sub>=-158.43 τ=38.64 σ<sub>ID,max</sub>=538.22

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-4279.89 T<sub>z</sub>=-91.25 M<sub>y</sub>=-34.75 T<sub>y</sub>=-4.38 M<sub>z</sub>=-18.39  
 V,Ed=-4.38 Vc,Rd,Red=7614.68 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-91.25 Vc,Rd,Red=7614.68 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2203.46 T<sub>z</sub>=-54.28 M<sub>y</sub>=-19.08 T<sub>y</sub>=-5.50 M<sub>z</sub>=3.31 M<sub>x</sub>=-16.11  
 Tensioni: σ<sub>N</sub>=-181.21 σ<sub>M</sub>=-76.30 τ=34.87 σ<sub>max</sub>=-257.50  
 Tensioni: σ<sub>N</sub>=-181.21 σ<sub>M</sub>=10.16 τ=44.89 τ<sub>max</sub>=44.89  
 Tensioni: σ<sub>N</sub>=-181.21 σ<sub>M</sub>=-76.30 τ=34.87 σ<sub>ID,max</sub>=264.49

Asta n. 4998 (-14436 -14370) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4501.03 M<sub>y</sub>,Ed=-30.58 M<sub>z</sub>,Ed=1.72  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.04+0.00=0.21  
 Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4501.01 T<sub>z</sub>=-84.31 M<sub>y</sub>=-30.58 T<sub>y</sub>=-11.40 M<sub>z</sub>=1.72 M<sub>x</sub>=-11.80  
 Tensioni: σ<sub>N</sub>=-370.15 σ<sub>M</sub>=-110.06 τ=25.54 σ<sub>max</sub>=-480.21  
 Tensioni: σ<sub>N</sub>=-370.15 σ<sub>M</sub>=5.29 τ=41.11 τ<sub>max</sub>=41.11  
 Tensioni: σ<sub>N</sub>=-370.15 σ<sub>M</sub>=-110.06 τ=25.54 σ<sub>ID,max</sub>=482.25

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-4501.03 T<sub>z</sub>=-85.57 M<sub>y</sub>=-22.27 T<sub>y</sub>=-11.40 M<sub>z</sub>=-11.80  
 V,Ed=-11.40 Vc,Rd,Red=7701.30 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-85.57 Vc,Rd,Red=7701.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2177.45 T<sub>z</sub>=-42.03 M<sub>y</sub>=-13.40 T<sub>y</sub>=-4.96 M<sub>z</sub>=3.10 M<sub>x</sub>=-14.41  
 Tensioni: σ<sub>N</sub>=-179.07 σ<sub>M</sub>=-56.21 τ=31.19 σ<sub>max</sub>=-235.28  
 Tensioni: σ<sub>N</sub>=-179.07 σ<sub>M</sub>=9.49 τ=38.95 τ<sub>max</sub>=38.95  
 Tensioni: σ<sub>N</sub>=-179.07 σ<sub>M</sub>=-56.21 τ=31.19 σ<sub>ID,max</sub>=241.40

Asta n. 4998 (-14370 -14304) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4471.17 M<sub>y</sub>,Ed=-19.06 M<sub>z</sub>,Ed=0.63  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.00=0.19  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3638.14 T<sub>z</sub>=-35.36 M<sub>y</sub>=-13.52 T<sub>y</sub>=-3.60 M<sub>z</sub>=1.05 M<sub>x</sub>=-1.58  
 Tensioni: σ<sub>N</sub>=-299.19 σ<sub>M</sub>=-49.67 τ=3.43 σ<sub>max</sub>=-348.86  
 Tensioni: σ<sub>N</sub>=-299.19 σ<sub>M</sub>=3.23 τ=9.96 τ<sub>max</sub>=9.96

Tensioni:  $\sigma_N=-299.19$   $\sigma_M=-49.67$   $\tau=3.43$   $\sigma_{ID,max}=348.91$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4175.93$   $T_z=-47.06$   $M_y=-16.70$   $T_y=-3.61$   $M_x=-5.96$   
 $V,Ed=-3.61$   $V_c,Rd,Red=7778.12$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-47.06$   $V_c,Rd,Red=7778.12$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2161.67$   $T_z=-25.07$   $M_y=-9.66$   $T_y=-2.68$   $M_z=-2.77$   $M_x=-12.19$   
Tensioni:  $\sigma_N=-177.77$   $\sigma_M=-42.38$   $\tau=26.38$   $\sigma_{max}=-220.15$   
Tensioni:  $\sigma_N=-177.77$   $\sigma_M=-8.51$   $\tau=31.02$   $\tau_{max}=31.02$   
Tensioni:  $\sigma_N=-177.77$   $\sigma_M=-42.38$   $\tau=26.38$   $\sigma_{ID,max}=224.85$

Asta n. 4998 (-14304 -14238) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4483.54$   $M_y,Ed=-12.52$   $M_z,Ed=0.27$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.02+0.00=0.18$   
Verifica ZZ:  $0.16+0.01+0.00=0.18$
- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-3161.14$   $T_z=-30.78$   $M_y=-11.84$   $M_z=-1.27$   
Tensioni:  $\sigma_N=-259.96$   $\sigma_M=-44.66$   $\tau=0.00$   $\sigma_{max}=-304.62$   
Tensioni:  $\sigma_N=-259.96$   $\sigma_M=-4.32$   $\tau=5.68$   $\tau_{max}=5.68$   
Tensioni:  $\sigma_N=-259.96$   $\sigma_M=-44.66$   $\tau=0.00$   $\sigma_{ID,max}=304.62$
- Verifica a taglio dir. Z [4.2.16] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4192.76$   $T_z=-39.40$   $M_y=-10.78$   
 $V,Ed=-39.40$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2156.12$   $T_z=-19.55$   $M_y=-7.37$   $T_y=-2.50$   $M_z=-2.90$   $M_x=10.46$   
Tensioni:  $\sigma_N=-177.31$   $\sigma_M=-34.98$   $\tau=22.63$   $\sigma_{max}=-212.30$   
Tensioni:  $\sigma_N=-177.31$   $\sigma_M=8.88$   $\tau=26.24$   $\tau_{max}=26.24$   
Tensioni:  $\sigma_N=-177.31$   $\sigma_M=-34.98$   $\tau=22.63$   $\sigma_{ID,max}=215.88$

Asta n. 4998 (-14238 -14172) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4500.35$   $M_y,Ed=-8.19$   $M_z,Ed=0.30$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.01+0.00=0.18$   
Verifica ZZ:  $0.17+0.01+0.00=0.17$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.04$  - Classe 3  
Sollecitazioni:  $N=-4213.36$   $T_z=-8.77$   $M_y=-9.03$   $T_y=-2.29$   $M_z=-1.00$   $M_x=7.56$   
Tensioni:  $\sigma_N=-346.49$   $\sigma_M=-34.21$   $\tau=16.37$   $\sigma_{max}=-380.70$   
Tensioni:  $\sigma_N=-346.49$   $\sigma_M=3.08$   $\tau=17.98$   $\tau_{max}=17.98$   
Tensioni:  $\sigma_N=-346.49$   $\sigma_M=-34.21$   $\tau=16.37$   $\sigma_{ID,max}=381.75$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-2566.97$   $T_z=19.09$   $T_y=-2.14$   $M_x=6.42$   
 $V,Ed=-2.14$   $V_c,Rd,Red=7772.13$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=19.09$   $V_c,Rd,Red=7772.13$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-2151.88$   $T_z=17.61$   $M_y=-6.26$   $T_y=-4.56$   $M_z=-2.59$   $M_x=12.21$

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Tensioni:  $\sigma_N=-176.96$   $\sigma_M=-30.15$   $\tau=26.43$   $\sigma_{max}=-207.11$   
Tensioni:  $\sigma_N=-176.96$   $\sigma_M=-7.93$   $\tau=29.69$   $\tau_{max}=29.69$   
Tensioni:  $\sigma_N=-176.96$   $\sigma_M=-30.15$   $\tau=26.43$   $\sigma_{ID,max}=212.11$

Asta n. 4998 (-14172 -14106) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4516.40 My,Ed=-8.34 Mz,Ed=-0.23  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.01+0.00=0.18  
Verifica ZZ: 0.17+0.01+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4231.24 Tz=-10.23 My=-7.86 Ty=-2.76 Mz=-1.02 Mx=12.30  
Tensioni:  $\sigma_N=-347.96$   $\sigma_M=-30.24$   $\tau=26.61$   $\sigma_{max}=-378.20$   
Tensioni:  $\sigma_N=-347.96$   $\sigma_M=3.12$   $\tau=28.50$   $\tau_{max}=28.50$   
Tensioni:  $\sigma_N=-347.96$   $\sigma_M=-30.24$   $\tau=26.61$   $\sigma_{ID,max}=381.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.00  
Sollecitazioni: N=-2575.35 Tz=25.27 My=-3.17 Ty=-2.79 Mx=8.48  
V,Ed=-2.79 Vc,Rd,Red=7745.06 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=25.27 Vc,Rd,Red=7745.06 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2148.64 Tz=23.00 My=-7.00 Ty=-8.34 Mz=-2.26 Mx=13.47  
Tensioni:  $\sigma_N=-176.70$   $\sigma_M=-31.56$   $\tau=29.14$   $\sigma_{max}=-208.26$   
Tensioni:  $\sigma_N=-176.70$   $\sigma_M=-6.92$   $\tau=33.39$   $\tau_{max}=33.39$   
Tensioni:  $\sigma_N=-176.70$   $\sigma_M=-31.56$   $\tau=29.14$   $\sigma_{ID,max}=214.29$

Asta n. 4998 (-14106 -14038) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4534.10 My,Ed=-15.31 Mz,Ed=0.14  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5147.07 Tz=46.58 My=-14.52 Ty=-4.32 Mz=-1.30 Mx=9.00  
Tensioni:  $\sigma_N=423.28$   $\sigma_M=53.91$   $\tau=19.47$   $\sigma_{max}=477.19$   
Tensioni:  $\sigma_N=423.28$   $\sigma_M=-3.99$   $\tau=28.07$   $\tau_{max}=28.07$   
Tensioni:  $\sigma_N=423.28$   $\sigma_M=53.91$   $\tau=19.47$   $\sigma_{ID,max}=478.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.00  
Sollecitazioni: N=-3454.32 Tz=70.74 My=-8.61 Ty=9.24 Mx=30.20  
V,Ed=9.24 Vc,Rd,Red=7459.25 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=70.74 Vc,Rd,Red=7459.25 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2150.96 Tz=52.48 My=-13.39 Ty=-18.96 Mx=14.64  
Tensioni:  $\sigma_N=-176.89$   $\sigma_M=-45.63$   $\tau=31.68$   $\sigma_{max}=-222.52$   
Tensioni:  $\sigma_N=-176.89$   $\sigma_M=0.00$   $\tau=41.38$   $\tau_{max}=41.38$   
Tensioni:  $\sigma_N=-176.89$   $\sigma_M=-45.63$   $\tau=35.19$   $\sigma_{ID,max}=230.71$

Asta n. 4998 (-14038 -13971) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4573.13 My,Ed=-23.11 Mz,Ed=0.79

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Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.17+0.03+0.00=0.20

Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.06 - Classe 3

Sollecitazioni: N=5193.22 Tz=-7.80 My=-14.72 Mz=-1.00 Mx=10.83

Tensioni:  $\sigma_N=427.07$   $\sigma_M=53.58$   $\tau=23.44$   $\sigma_{max}=480.65$

Tensioni:  $\sigma_N=427.07$   $\sigma_M=3.08$   $\tau=24.88$   $\tau_{max}=24.88$

Tensioni:  $\sigma_N=427.07$   $\sigma_M=53.58$   $\tau=23.44$   $\sigma_{ID,max}=482.36$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.01

Sollecitazioni: N=-2614.45 Tz=67.12 My=-18.22 Ty=-14.40 Mx=11.53

V,Ed=-14.40 Vc,Rd,Red=7704.91 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=67.12 Vc,Rd,Red=7704.91 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-2172.17 Tz=53.90 My=-21.08 Ty=-56.97 Mz=-4.53 Mx=14.88

Tensioni:  $\sigma_N=-178.63$   $\sigma_M=-87.25$   $\tau=32.20$   $\sigma_{max}=-265.88$

Tensioni:  $\sigma_N=-178.63$   $\sigma_M=-64.64$   $\tau=42.73$   $\tau_{max}=42.73$

Tensioni:  $\sigma_N=-178.63$   $\sigma_M=-85.71$   $\tau=39.58$   $\sigma_{ID,max}=273.08$

Asta n. 4998 (-13971 -13901) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4437.61 My,Ed=-113.08 Mz,Ed=1.99

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.14+0.00=0.30

Verifica ZZ: 0.16+0.11+0.00=0.28

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-4437.59 Tz=-235.73 My=-113.08 Ty=38.43 Mz=-1.69 Mx=-22.01

Tensioni:  $\sigma_N=-364.93$   $\sigma_M=-391.10$   $\tau=47.64$   $\sigma_{max}=-756.03$

Tensioni:  $\sigma_N=-364.93$   $\sigma_M=-5.18$   $\tau=91.18$   $\tau_{max}=91.18$

Tensioni:  $\sigma_N=-364.93$   $\sigma_M=-390.52$   $\tau=52.62$   $\sigma_{ID,max}=760.93$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.07

Sollecitazioni: N=-4437.61 Tz=-236.63 My=-96.64 Ty=38.43 Mx=-22.01

V,Ed=38.43 Vc,Rd,Red=7566.95 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-236.63 Vc,Rd,Red=7566.95 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2130.63 Tz=-106.49 My=-48.04 Ty=67.16 Mz=-9.72 Mx=-16.72

Tensioni:  $\sigma_N=-175.22$   $\sigma_M=-196.81$   $\tau=36.18$   $\sigma_{max}=-372.03$

Tensioni:  $\sigma_N=-175.22$   $\sigma_M=-29.81$   $\tau=55.85$   $\tau_{max}=55.85$

Tensioni:  $\sigma_N=-175.22$   $\sigma_M=-196.81$   $\tau=36.18$   $\sigma_{ID,max}=377.27$

Asta n. 4998 (-13901 -13833) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-4353.22 My,Ed=-79.98 Mz,Ed=2.56

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.10+0.00=0.26

Verifica ZZ: 0.16+0.08+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4353.20$   $T_x=-191.39$   $M_y=-79.98$   $T_y=-10.46$   $M_z=2.56$   $M_x=-19.39$   
 Tensioni:  $\sigma_N=-357.99$   $\sigma_M=-281.27$   $\tau=41.95$   $\sigma_{max}=-639.26$   
 Tensioni:  $\sigma_N=-357.99$   $\sigma_M=7.86$   $\tau=77.30$   $\tau_{max}=77.30$   
 Tensioni:  $\sigma_N=-357.99$   $\sigma_M=-281.27$   $\tau=41.95$   $\sigma_{ID,max}=643.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4075.57$   $T_x=-180.27$   $M_y=-61.22$   $T_y=-6.56$   $M_x=-22.40$   
 $V,Ed=-6.56$   $V_c,Rd,Red=7561.87$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-180.27$   $V_c,Rd,Red=7561.87$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2088.99$   $T_x=-88.26$   $M_y=-33.38$   $T_y=-20.82$   $M_z=4.83$   $M_x=-15.89$   
 Tensioni:  $\sigma_N=-171.79$   $\sigma_M=-130.18$   $\tau=34.39$   $\sigma_{max}=-301.97$   
 Tensioni:  $\sigma_N=-171.79$   $\sigma_M=14.81$   $\tau=50.69$   $\tau_{max}=50.69$   
 Tensioni:  $\sigma_N=-171.79$   $\sigma_M=-130.18$   $\tau=34.39$   $\sigma_{ID,max}=307.79$

Asta n. 4998 (-13833 -13767) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4256.65$   $M_y,Ed=-52.72$   $M_z,Ed=2.51$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.06+0.00=0.22$   
 Verifica ZZ:  $0.16+0.05+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=5323.58$   $T_x=-75.12$   $M_y=-36.04$   $T_y=-15.59$   $M_z=1.54$   $M_x=-11.92$   
 Tensioni:  $\sigma_N=437.79$   $\sigma_M=128.04$   $\tau=25.79$   $\sigma_{max}=565.84$   
 Tensioni:  $\sigma_N=437.79$   $\sigma_M=4.72$   $\tau=39.66$   $\tau_{max}=39.66$   
 Tensioni:  $\sigma_N=437.79$   $\sigma_M=128.04$   $\tau=25.79$   $\sigma_{ID,max}=567.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4256.65$   $T_x=-127.73$   $M_y=-40.29$   $T_y=-17.77$   $M_x=-13.06$   
 $V,Ed=-17.77$   $V_c,Rd,Red=7684.78$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-127.73$   $V_c,Rd,Red=7684.78$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2047.03$   $T_x=-60.00$   $M_y=-22.01$   $T_y=-10.99$   $M_z=3.49$   $M_x=-13.91$   
 Tensioni:  $\sigma_N=-168.34$   $\sigma_M=-86.89$   $\tau=30.09$   $\sigma_{max}=-255.23$   
 Tensioni:  $\sigma_N=-168.34$   $\sigma_M=10.69$   $\tau=41.17$   $\tau_{max}=41.17$   
 Tensioni:  $\sigma_N=-168.34$   $\sigma_M=-86.89$   $\tau=30.09$   $\sigma_{ID,max}=260.50$

Asta n. 4998 (-13767 -13701) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4198.76$   $M_y,Ed=-34.35$   $M_z,Ed=0.93$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.04+0.00=0.20$   
 Verifica ZZ:  $0.15+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 60 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-3412.83$   $T_x=-89.42$   $M_y=-25.92$   $T_y=-6.40$   $M_z=1.26$   $M_x=-2.46$   
 Tensioni:  $\sigma_N=-280.66$   $\sigma_M=-92.60$   $\tau=5.32$   $\sigma_{max}=-373.26$   
 Tensioni:  $\sigma_N=-280.66$   $\sigma_M=3.86$   $\tau=21.84$   $\tau_{max}=21.84$   
 Tensioni:  $\sigma_N=-280.66$   $\sigma_M=-92.60$   $\tau=5.32$   $\sigma_{ID,max}=373.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-4198.76$   $T_x=-110.61$   $M_y=-23.60$   $T_y=-7.55$   $M_x=-6.70$

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V,Ed=-7.55 Vc,Rd,Red=7768.39 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-110.61 Vc,Rd,Red=7768.39 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2017.22 T<sub>z</sub>=-50.07 M<sub>y</sub>=-15.70 T<sub>y</sub>=-5.21 M<sub>z</sub>=2.70 M<sub>x</sub>=-11.62  
Tensioni:  $\sigma_N$ =-165.89  $\sigma_M$ =-62.71  $\tau$ =25.15  $\sigma_{max}$ =-228.60  
Tensioni:  $\sigma_N$ =-165.89  $\sigma_M$ =8.28  $\tau$ =34.40  $\tau_{max}$ =34.40  
Tensioni:  $\sigma_N$ =-165.89  $\sigma_M$ =-62.71  $\tau$ =25.15  $\sigma_{ID,max}$ =232.72

Asta n. 4998 (-13701 -13635) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4195.61 My,Ed=-19.29 Mz,Ed=0.32  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.02+0.00=0.18  
Verifica ZZ: 0.15+0.02+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-2968.46 T<sub>z</sub>=-50.61 M<sub>y</sub>=-17.63 M<sub>z</sub>=-1.11 M<sub>x</sub>=-2.12  
Tensioni:  $\sigma_N$ =-244.12  $\sigma_M$ =-63.88  $\tau$ =4.60  $\sigma_{max}$ =-308.00  
Tensioni:  $\sigma_N$ =-244.12  $\sigma_M$ =-3.80  $\tau$ =13.94  $\tau_{max}$ =13.94  
Tensioni:  $\sigma_N$ =-244.12  $\sigma_M$ =-63.88  $\tau$ =4.60  $\sigma_{ID,max}$ =308.10

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-3932.20 T<sub>z</sub>=-65.56 M<sub>y</sub>=-15.35 M<sub>x</sub>=-2.48  
V,Ed=-65.56 Vc,Rd,Red=7823.92 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2003.25 T<sub>z</sub>=-30.87 M<sub>y</sub>=-10.53 T<sub>y</sub>=-3.21 M<sub>z</sub>=-2.60 M<sub>x</sub>=-9.01  
Tensioni:  $\sigma_N$ =-164.74  $\sigma_M$ =-44.74  $\tau$ =19.50  $\sigma_{max}$ =-209.48  
Tensioni:  $\sigma_N$ =-164.74  $\sigma_M$ =-7.97  $\tau$ =25.20  $\tau_{max}$ =25.20  
Tensioni:  $\sigma_N$ =-164.74  $\sigma_M$ =-44.74  $\tau$ =19.50  $\sigma_{ID,max}$ =212.19

Asta n. 4998 (-13635 -13569) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-4198.10 My,Ed=-9.91 Mz,Ed=0.32  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.01+0.00=0.17  
Verifica ZZ: 0.15+0.01+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.08 - Classe 3  
Sollecitazioni: N=-3940.31 T<sub>z</sub>=-58.57 M<sub>y</sub>=-7.58 T<sub>y</sub>=-3.10 M<sub>z</sub>=-1.02 M<sub>x</sub>=4.19  
Tensioni:  $\sigma_N$ =-324.04  $\sigma_M$ =-29.30  $\tau$ =9.07  $\sigma_{max}$ =-353.33  
Tensioni:  $\sigma_N$ =-324.04  $\sigma_M$ =3.11  $\tau$ =19.89  $\tau_{max}$ =19.89  
Tensioni:  $\sigma_N$ =-324.04  $\sigma_M$ =-29.30  $\tau$ =9.07  $\sigma_{ID,max}$ =353.68

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.07  
Sollecitazioni: N=-3940.31 T<sub>z</sub>=-58.46 M<sub>y</sub>=-8.10 T<sub>y</sub>=-3.10 M<sub>x</sub>=4.19  
V,Ed=-3.10 Vc,Rd,Red=7801.45 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-58.46 Vc,Rd,Red=7801.45 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1991.01 T<sub>z</sub>=-28.23 M<sub>y</sub>=-6.78 T<sub>y</sub>=-4.28 M<sub>z</sub>=-2.51 M<sub>x</sub>=9.52  
Tensioni:  $\sigma_N$ =-163.74  $\sigma_M$ =-31.67  $\tau$ =20.61  $\sigma_{max}$ =-195.41  
Tensioni:  $\sigma_N$ =-163.74  $\sigma_M$ =7.70  $\tau$ =25.82  $\tau_{max}$ =25.82  
Tensioni:  $\sigma_N$ =-163.74  $\sigma_M$ =-31.67  $\tau$ =20.61  $\sigma_{ID,max}$ =198.64

Asta n. 4998 (-13569 -13503) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-4196.78$   $M_y, Ed=-2.49$   $M_z, Ed=-0.54$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.00=0.16$   
 Verifica ZZ:  $0.15+0.00+0.00=0.16$
  - Verifica a compressione [4.2.9] - CC 54 SLU  $X_l=0.10$  - Classe 1  
 Sollecitazioni:  $N=-4196.78$   $T_z=-22.38$   $T_y=-7.33$   $M_x=14.62$   
 $N, Ed=-4196.78$   $N_c, Rd=-27215.20$   $N, Ed/N_c, Rd=0.15$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.02$   
 Sollecitazioni:  $N=-3943.59$   $T_z=-31.07$   $M_y=-3.57$   $T_y=-6.14$   $M_x=10.65$   
 $V, Ed=-6.14$   $V_c, Rd, Red=7716.49$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-31.07$   $V_c, Rd, Red=7716.49$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1978.54$   $T_z=-25.82$   $M_y=-3.90$   $T_y=-6.72$   $M_z=-2.48$   $M_x=11.04$   
 Tensioni:  $\sigma_N=-162.71$   $\sigma_M=-21.76$   $\tau=23.89$   $\sigma_{max}=-184.47$   
 Tensioni:  $\sigma_N=-162.71$   $\sigma_M=7.61$   $\tau=28.66$   $\tau_{max}=28.66$   
 Tensioni:  $\sigma_N=-162.71$   $\sigma_M=-21.76$   $\tau=23.89$   $\sigma_{ID,max}=189.05$

Asta n. 4998 (-13503 -13433) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-4186.23$   $M_y, Ed=2.71$   $M_z, Ed=-1.21$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.00=0.16$   
 Verifica ZZ:  $0.15+0.00+0.00=0.16$
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.04$  - Classe 3  
 Sollecitazioni:  $N=5414.92$   $T_z=-18.55$   $M_y=-2.05$   $T_y=-10.45$   $M_z=-1.07$   $M_x=9.45$   
 Tensioni:  $\sigma_N=445.31$   $\sigma_M=10.63$   $\tau=20.44$   $\sigma_{max}=455.94$   
 Tensioni:  $\sigma_N=445.31$   $\sigma_M=3.29$   $\tau=23.87$   $\tau_{max}=23.87$   
 Tensioni:  $\sigma_N=445.31$   $\sigma_M=10.63$   $\tau=20.44$   $\sigma_{ID,max}=457.31$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3935.28$   $T_z=-30.52$   $T_y=-8.78$   $M_z=-1.25$   $M_x=15.17$   
 $V, Ed=-8.78$   $V_c, Rd, Red=7656.95$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=-30.52$   $V_c, Rd, Red=7656.95$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1965.12$   $T_z=-30.82$   $M_y=5.71$   $T_y=-11.50$   $M_z=-2.09$   $M_x=12.15$   
 Tensioni:  $\sigma_N=-161.60$   $\sigma_M=-26.57$   $\tau=26.29$   $\sigma_{max}=-188.18$   
 Tensioni:  $\sigma_N=-161.60$   $\sigma_M=6.42$   $\tau=31.98$   $\tau_{max}=31.98$   
 Tensioni:  $\sigma_N=-161.60$   $\sigma_M=-26.57$   $\tau=26.29$   $\sigma_{ID,max}=193.61$

Asta n. 4998 (-13433 -13361) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-4162.27$   $M_y, Ed=2.99$   $M_z, Ed=-1.49$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.00=0.16$



Verifica ZZ:  $0.15+0.00+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=5482.90$   $T_z=17.14$   $M_y=-2.38$   $T_y=-12.51$   $M_z=-2.70$   $M_x=12.05$   
 Tensioni:  $\sigma_N=450.90$   $\sigma_M=17.32$   $\tau=26.09$   $\sigma_{max}=468.21$   
 Tensioni:  $\sigma_N=450.90$   $\sigma_M=-8.29$   $\tau=29.25$   $\tau_{max}=29.25$   
 Tensioni:  $\sigma_N=450.90$   $\sigma_M=17.32$   $\tau=26.09$   $\sigma_{ID,max}=470.39$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2370.87$   $T_z=45.15$   $M_y=-5.34$   $M_x=14.31$   
 $V,Ed=-5.34$   $Vc,Rd,Red=7668.31$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=45.15$   $Vc,Rd,Red=7668.31$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1953.15$   $T_z=45.16$   $M_y=9.76$   $T_y=-24.02$   $M_z=-1.15$   $M_x=13.08$   
 Tensioni:  $\sigma_N=-160.62$   $\sigma_M=-37.17$   $\tau=28.30$   $\sigma_{max}=-197.80$   
 Tensioni:  $\sigma_N=-160.62$   $\sigma_M=-3.52$   $\tau=36.64$   $\tau_{max}=36.64$   
 Tensioni:  $\sigma_N=-160.62$   $\sigma_M=-37.17$   $\tau=28.30$   $\sigma_{ID,max}=203.78$

Asta n. 4998 (-13361 -13294) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4153.19$   $M_y,Ed=-2.75$   $M_z,Ed=-3.59$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.01=0.16$   
 Verifica ZZ:  $0.15+0.00+0.01=0.16$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=5577.57$   $T_z=-5.01$   $M_y=-2.20$   $T_y=-19.21$   $M_z=-3.73$   $M_x=13.22$   
 Tensioni:  $\sigma_N=458.68$   $\sigma_M=20.19$   $\tau=28.62$   $\sigma_{max}=478.87$   
 Tensioni:  $\sigma_N=458.68$   $\sigma_M=-6.73$   $\tau=32.17$   $\tau_{max}=32.17$   
 Tensioni:  $\sigma_N=458.68$   $\sigma_M=20.19$   $\tau=28.62$   $\sigma_{ID,max}=481.43$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2372.90$   $T_z=51.54$   $M_y=-7.47$   $T_y=-23.24$   $M_x=15.09$   
 $V,Ed=-23.24$   $Vc,Rd,Red=7658.06$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=51.54$   $Vc,Rd,Red=7658.06$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1958.07$   $T_z=52.08$   $M_y=-16.36$   $T_y=-70.38$   $M_z=-6.64$   $M_x=13.45$   
 Tensioni:  $\sigma_N=-161.03$   $\sigma_M=-78.35$   $\tau=29.11$   $\sigma_{max}=-239.38$   
 Tensioni:  $\sigma_N=-161.03$   $\sigma_M=-50.16$   $\tau=42.12$   $\tau_{max}=42.12$   
 Tensioni:  $\sigma_N=-161.03$   $\sigma_M=-76.09$   $\tau=38.22$   $\sigma_{ID,max}=246.19$

Asta n. 4998 (-13294 -13225) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3818.16$   $M_y,Ed=-128.52$   $M_z,Ed=5.33$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.14+0.16+0.01=0.31$   
 Verifica ZZ:  $0.14+0.13+0.01=0.27$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=5849.28$   $T_z=-139.77$   $M_y=-80.76$   $T_y=-72.16$   $M_z=9.09$   $M_x=-14.30$   
 Tensioni:  $\sigma_N=481.03$   $\sigma_M=306.16$   $\tau=30.94$   $\sigma_{max}=787.19$   
 Tensioni:  $\sigma_N=481.03$   $\sigma_M=27.88$   $\tau=56.76$   $\tau_{max}=56.76$   
 Tensioni:  $\sigma_N=481.03$   $\sigma_M=306.16$   $\tau=30.94$   $\sigma_{ID,max}=789.01$

- Verifica a taglio dir. Y [4.2.16] - CC 68 SLU  $X_l=0.07$   
Sollecitazioni:  $N=-2891.99$   $T_z=-217.64$   $M_y=-89.42$   $T_y=10.82$   
 $V,Ed=10.82$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$
- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-217.64$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-1848.03$   $T_z=-113.69$   $M_y=-52.19$   $T_y=-69.49$   $M_z=11.11$   $M_x=-13.49$   
Tensioni:  $\sigma_N=-151.98$   $\sigma_M=-215.71$   $\tau=29.20$   $\sigma_{max}=-367.68$   
Tensioni:  $\sigma_N=-151.98$   $\sigma_M=34.09$   $\tau=50.20$   $\tau_{max}=50.20$   
Tensioni:  $\sigma_N=-151.98$   $\sigma_M=-215.71$   $\tau=29.20$   $\sigma_{TD,max}=371.14$

Asta n. 4998 (-13225 -13158) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3690.04$   $M_y,Ed=-92.03$   $M_z,Ed=4.47$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.14+0.11+0.01=0.25$   
Verifica ZZ:  $0.14+0.09+0.01=0.23$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=5858.39$   $T_z=-143.17$   $M_y=-60.06$   $T_y=-34.95$   $M_z=3.58$   $M_x=-12.07$   
Tensioni:  $\sigma_N=481.77$   $\sigma_M=216.88$   $\tau=26.13$   $\sigma_{max}=698.66$   
Tensioni:  $\sigma_N=481.77$   $\sigma_M=10.99$   $\tau=52.57$   $\tau_{max}=52.57$   
Tensioni:  $\sigma_N=481.77$   $\sigma_M=216.88$   $\tau=26.13$   $\sigma_{TD,max}=700.12$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-3450.20$   $T_z=-201.84$   $M_y=-70.31$   $T_y=-29.11$   $M_x=-18.03$   
 $V,Ed=-29.11$   $V_c,Rd,Red=7619.40$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-201.84$   $V_c,Rd,Red=7619.40$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-1790.05$   $T_z=-98.37$   $M_y=-36.51$   $T_y=-32.06$   $M_z=5.55$   $M_x=-12.46$   
Tensioni:  $\sigma_N=-147.21$   $\sigma_M=-143.32$   $\tau=26.97$   $\sigma_{max}=-290.53$   
Tensioni:  $\sigma_N=-147.21$   $\sigma_M=17.02$   $\tau=45.14$   $\tau_{max}=45.14$   
Tensioni:  $\sigma_N=-147.21$   $\sigma_M=-143.32$   $\tau=26.97$   $\sigma_{TD,max}=294.26$

Asta n. 4998 (-13158 -13089) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3630.53$   $M_y,Ed=-61.29$   $M_z,Ed=1.68$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.13+0.08+0.00=0.21$   
Verifica ZZ:  $0.13+0.06+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-3630.51$   $T_z=-154.28$   $M_y=-61.29$   $T_y=-14.15$   $M_z=1.68$   $M_x=-7.13$   
Tensioni:  $\sigma_N=-298.56$   $\sigma_M=-214.59$   $\tau=15.43$   $\sigma_{max}=-513.15$   
Tensioni:  $\sigma_N=-298.56$   $\sigma_M=5.15$   $\tau=43.92$   $\tau_{max}=43.92$   
Tensioni:  $\sigma_N=-298.56$   $\sigma_M=-214.59$   $\tau=15.43$   $\sigma_{TD,max}=513.85$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-3630.53$   $T_z=-155.53$   $M_y=-46.15$   $T_y=-14.15$   $M_x=-7.13$   
 $V,Ed=-14.15$   $V_c,Rd,Red=7762.79$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-155.53$   $V_c,Rd,Red=7762.79$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

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Sollecitazioni:  $N=-1753.86$   $T_x=-69.26$   $M_y=-24.49$   $T_y=-12.28$   $M_z=3.09$   $M_x=-10.29$   
Tensioni:  $\sigma_N=-144.23$   $\sigma_M=-93.97$   $\tau=22.26$   $\sigma_{max}=-238.21$   
Tensioni:  $\sigma_N=-144.23$   $\sigma_M=9.48$   $\tau=35.05$   $\tau_{max}=35.05$   
Tensioni:  $\sigma_N=-144.23$   $\sigma_M=-93.97$   $\tau=22.26$   $\sigma_{ID,max}=241.31$

Asta n. 4998 (-13089 -13017) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3618.83$   $M_y,Ed=-39.05$   $M_z,Ed=0.67$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.13+0.05+0.00=0.18$   
Verifica ZZ:  $0.13+0.04+0.00=0.17$

- Verifica a pressoflessione retta - CC 75 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-3390.73$   $T_x=-120.49$   $M_y=-40.38$   $T_y=-3.68$   $M_x=-5.45$   
 $M_y,Ed=-40.38$   $M_y,c,Rd=776.35$   
 $N,Ed=-3390.73$   $N_c,Rd=27215.20$   $n=N,Ed/N_c,Rd=0.12$   
 $MN_y,c,Rd=776.35$   $M_y,Ed/MN_y,c,Rd=0.05$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X1=0.10$   
Sollecitazioni:  $N=-3618.83$   $T_x=-128.20$   $M_y=-26.58$   $T_y=-5.29$   
 $V,Ed=-5.29$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-128.20$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-1732.75$   $T_x=-54.72$   $M_y=-16.85$   $T_y=-5.90$   $M_z=2.33$   $M_x=-7.86$   
Tensioni:  $\sigma_N=-142.50$   $\sigma_M=-65.36$   $\tau=17.02$   $\sigma_{max}=-207.86$   
Tensioni:  $\sigma_N=-142.50$   $\sigma_M=7.14$   $\tau=27.12$   $\tau_{max}=27.12$   
Tensioni:  $\sigma_N=-142.50$   $\sigma_M=-65.36$   $\tau=17.02$   $\sigma_{ID,max}=209.94$

Asta n. 4998 (-13017 -12934) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3617.52$   $M_y,Ed=-21.24$   $M_z,Ed=0.47$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.13+0.03+0.00=0.16$   
Verifica ZZ:  $0.13+0.02+0.00=0.15$

- Verifica a pressoflessione retta - CC 75 SLU  $X1=0.00$  - Classe 1  
Sollecitazioni:  $N=-3396.47$   $T_x=-86.01$   $M_y=-23.37$   $T_y=-3.18$   $M_x=2.11$   
 $M_y,Ed=-23.37$   $M_y,c,Rd=776.35$   
 $N,Ed=-3396.47$   $N_c,Rd=27215.20$   $n=N,Ed/N_c,Rd=0.12$   
 $MN_y,c,Rd=776.35$   $M_y,Ed/MN_y,c,Rd=0.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.10$   
Sollecitazioni:  $N=-3617.52$   $T_x=-87.62$   $M_y=-12.73$   $T_y=-4.57$   $M_x=7.48$   
 $V,Ed=-4.57$   $V_c,Rd,Red=7758.17$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-87.62$   $V_c,Rd,Red=7758.17$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
Sollecitazioni:  $N=-1715.83$   $T_x=-38.03$   $M_y=-11.13$   $T_y=-4.78$   $M_z=-2.11$   $M_x=7.76$   
Tensioni:  $\sigma_N=-141.10$   $\sigma_M=-45.10$   $\tau=16.79$   $\sigma_{max}=-186.20$   
Tensioni:  $\sigma_N=-141.10$   $\sigma_M=6.47$   $\tau=23.81$   $\tau_{max}=23.81$   
Tensioni:  $\sigma_N=-141.10$   $\sigma_M=-45.10$   $\tau=16.79$   $\sigma_{ID,max}=188.46$

Asta n. 4998 (-12934 -12856) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3616.27$   $M_y,Ed=-8.67$   $M_z,Ed=0.36$

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Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.13+0.01+0.00=0.14

Verifica ZZ: 0.13+0.01+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-3401.89 T<sub>z</sub>=-75.34 M<sub>y</sub>=-3.48 T<sub>y</sub>=-4.91 M<sub>z</sub>=-1.04 M<sub>x</sub>=8.98  
Tensioni:  $\sigma_N=-279.76$   $\sigma_M=-15.39$   $\tau=19.44$   $\sigma_{max}=-295.15$   
Tensioni:  $\sigma_N=-279.76$   $\sigma_M=3.18$   $\tau=33.36$   $\tau_{max}=33.36$   
Tensioni:  $\sigma_N=-279.76$   $\sigma_M=-15.39$   $\tau=19.44$   $\sigma_{ID,max}=297.06$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.09  
Sollecitazioni: N=-3401.89 T<sub>z</sub>=-75.23 M<sub>y</sub>=-4.15 T<sub>y</sub>=-4.91 M<sub>z</sub>=8.98  
V,Ed=-4.91 Vc,Rd,Red=7738.40 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-75.23 Vc,Rd,Red=7738.40 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1699.85 T<sub>z</sub>=-32.80 M<sub>y</sub>=-6.36 T<sub>y</sub>=-5.56 M<sub>z</sub>=-2.03 M<sub>x</sub>=9.38  
Tensioni:  $\sigma_N=-139.79$   $\sigma_M=-28.59$   $\tau=20.30$   $\sigma_{max}=-168.38$   
Tensioni:  $\sigma_N=-139.79$   $\sigma_M=6.24$   $\tau=26.36$   $\tau_{max}=26.36$   
Tensioni:  $\sigma_N=-139.79$   $\sigma_M=-28.59$   $\tau=20.30$   $\sigma_{ID,max}=172.01$

Asta n. 4998 (-12856 -12786) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-3608.53 My,Ed=5.99 Mz,Ed=-0.82  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.01+0.00=0.14  
Verifica ZZ: 0.13+0.01+0.00=0.14
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5895.24 T<sub>z</sub>=-22.91 M<sub>y</sub>=1.38 T<sub>y</sub>=-8.14 M<sub>z</sub>=-1.13 M<sub>x</sub>=11.05  
Tensioni:  $\sigma_N=484.81$   $\sigma_M=8.56$   $\tau=23.92$   $\sigma_{max}=493.37$   
Tensioni:  $\sigma_N=484.81$   $\sigma_M=3.47$   $\tau=28.15$   $\tau_{max}=28.15$   
Tensioni:  $\sigma_N=484.81$   $\sigma_M=8.56$   $\tau=23.92$   $\sigma_{ID,max}=495.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.03  
Sollecitazioni: N=-3399.62 T<sub>z</sub>=-53.60 M<sub>y</sub>=1.37 T<sub>y</sub>=-8.34 M<sub>z</sub>=15.24  
V,Ed=-8.34 Vc,Rd,Red=7656.10 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-53.60 Vc,Rd,Red=7656.10 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1683.38 T<sub>z</sub>=-34.38 M<sub>y</sub>=5.63 T<sub>y</sub>=-8.18 M<sub>z</sub>=-1.85 M<sub>x</sub>=11.26  
Tensioni:  $\sigma_N=-138.44$   $\sigma_M=-25.50$   $\tau=24.36$   $\sigma_{max}=-163.94$   
Tensioni:  $\sigma_N=-138.44$   $\sigma_M=5.68$   $\tau=30.71$   $\tau_{max}=30.71$   
Tensioni:  $\sigma_N=-138.44$   $\sigma_M=-25.50$   $\tau=24.36$   $\sigma_{ID,max}=169.28$

Asta n. 4998 (-12786 -12716) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-3589.21 My,Ed=12.54 Mz,Ed=-1.72  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.02+0.00=0.15  
Verifica ZZ: 0.13+0.01+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5919.13$   $T_z=-31.10$   $M_y=5.86$   $T_y=-15.50$   $M_z=-2.14$   $M_x=14.09$   
 Tensioni:  $\sigma_N=486.77$   $\sigma_M=27.26$   $\tau=30.50$   $\sigma_{max}=514.03$   
 Tensioni:  $\sigma_N=486.77$   $\sigma_M=6.55$   $\tau=36.25$   $\tau_{max}=36.25$   
 Tensioni:  $\sigma_N=486.77$   $\sigma_M=27.26$   $\tau=30.50$   $\sigma_{ID,max}=516.73$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.02$   
 Sollecitazioni:  $N=-3376.88$   $T_z=-44.75$   $M_y=8.88$   $T_y=-13.98$   $M_x=19.33$   
 $V,Ed=-13.98$   $Vc,Rd,Red=7602.27$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-44.75$   $Vc,Rd,Red=7602.27$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1665.51$   $T_z=-37.56$   $M_y=8.52$   $T_y=-13.79$   $M_z=-1.70$   $M_x=12.81$   
 Tensioni:  $\sigma_N=-136.97$   $\sigma_M=-34.82$   $\tau=27.72$   $\sigma_{max}=-171.79$   
 Tensioni:  $\sigma_N=-136.97$   $\sigma_M=5.21$   $\tau=34.66$   $\tau_{max}=34.66$   
 Tensioni:  $\sigma_N=-136.97$   $\sigma_M=-34.82$   $\tau=27.72$   $\sigma_{ID,max}=178.37$

Asta n. 4998 (-12716 -12645) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3551.55$   $M_y,Ed=15.21$   $M_z,Ed=-2.49$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.02+0.00=0.15$   
 Verifica ZZ:  $0.13+0.01+0.00=0.15$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5990.83$   $T_z=3.64$   $M_y=6.36$   $T_y=-25.82$   $M_z=-4.11$   $M_x=16.56$   
 Tensioni:  $\sigma_N=492.67$   $\sigma_M=35.68$   $\tau=35.83$   $\sigma_{max}=528.35$   
 Tensioni:  $\sigma_N=492.67$   $\sigma_M=19.51$   $\tau=40.60$   $\tau_{max}=40.60$   
 Tensioni:  $\sigma_N=492.67$   $\sigma_M=35.68$   $\tau=35.83$   $\sigma_{ID,max}=531.98$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2020.34$   $T_z=26.93$   $M_y=5.63$   $T_y=-8.95$   $M_x=18.94$   
 $V,Ed=-8.95$   $Vc,Rd,Red=7607.36$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=26.93$   $Vc,Rd,Red=7607.36$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1647.64$   $T_z=-41.52$   $M_y=13.98$   $T_y=-28.19$   $M_z=-1.86$   $M_x=14.14$   
 Tensioni:  $\sigma_N=-135.50$   $\sigma_M=-53.98$   $\tau=30.61$   $\sigma_{max}=-189.47$   
 Tensioni:  $\sigma_N=-135.50$   $\sigma_M=5.69$   $\tau=38.28$   $\tau_{max}=38.28$   
 Tensioni:  $\sigma_N=-135.50$   $\sigma_M=-53.98$   $\tau=30.61$   $\sigma_{ID,max}=196.75$

Asta n. 4998 (-12645 -12571) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3521.79$   $M_y,Ed=15.94$   $M_z,Ed=-5.53$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.02+0.01=0.16$   
 Verifica ZZ:  $0.13+0.02+0.01=0.15$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=6090.65$   $T_z=-16.96$   $M_y=8.37$   $T_y=-42.92$   $M_z=-6.84$   $M_x=17.53$   
 Tensioni:  $\sigma_N=500.88$   $\sigma_M=51.81$   $\tau=37.94$   $\sigma_{max}=552.69$   
 Tensioni:  $\sigma_N=500.88$   $\sigma_M=25.66$   $\tau=45.87$   $\tau_{max}=45.87$   
 Tensioni:  $\sigma_N=500.88$   $\sigma_M=51.81$   $\tau=37.94$   $\sigma_{ID,max}=556.58$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3521.77$   $T_z=-1.36$   $M_y=15.75$   $T_y=-48.96$   $M_x=30.30$

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V,Ed=-48.96 Vc,Rd,Red=7457.93 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-1.36 Vc,Rd,Red=7457.93 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1643.91 T<sub>z</sub>=-43.79 M<sub>y</sub>=20.21 T<sub>y</sub>=-80.12 M<sub>z</sub>=-8.21 M<sub>x</sub>=14.66

Tensioni:  $\sigma_N$ =-135.19  $\sigma_M$ =-96.84  $\tau$ =31.72  $\sigma_{max}$ =-232.03

Tensioni:  $\sigma_N$ =-135.19  $\sigma_M$ =61.97  $\tau$ =46.52  $\tau_{max}$ =46.52

Tensioni:  $\sigma_N$ =-135.19  $\sigma_M$ =-96.84  $\tau$ =31.72  $\sigma_{ID,max}$ =238.44

Asta n. 4998 (-12571 -12488) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-3080.10 M<sub>y</sub>,Ed=-135.19 M<sub>z</sub>,Ed=7.24

Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00

$\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.11+0.17+0.01=0.29

Verifica ZZ: 0.11+0.13+0.01=0.26

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=6411.00 T<sub>z</sub>=-149.69 M<sub>y</sub>=-82.03 T<sub>y</sub>=-113.03 M<sub>z</sub>=13.38 M<sub>x</sub>=-8.09

Tensioni:  $\sigma_N$ =527.22  $\sigma_M$ =325.11  $\tau$ =17.52  $\sigma_{max}$ =852.33

Tensioni:  $\sigma_N$ =527.22  $\sigma_M$ =41.03  $\tau$ =45.19  $\tau_{max}$ =45.19

Tensioni:  $\sigma_N$ =527.22  $\sigma_M$ =325.11  $\tau$ =17.52  $\sigma_{ID,max}$ =852.87

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10

Sollecitazioni: N=-2336.18 T<sub>z</sub>=-227.70 M<sub>y</sub>=-88.61 T<sub>y</sub>=7.23 M<sub>x</sub>=11.18

V,Ed=7.23 Vc,Rd,Red=7709.51 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-227.70 Vc,Rd,Red=7709.51 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-1485.80 T<sub>z</sub>=-120.03 M<sub>y</sub>=-55.29 T<sub>y</sub>=-82.46 M<sub>z</sub>=12.15 M<sub>x</sub>=-10.46

Tensioni:  $\sigma_N$ =-122.19  $\sigma_M$ =-229.83  $\tau$ =22.64  $\sigma_{max}$ =-352.02

Tensioni:  $\sigma_N$ =-122.19  $\sigma_M$ =37.27  $\tau$ =44.82  $\tau_{max}$ =44.82

Tensioni:  $\sigma_N$ =-122.19  $\sigma_M$ =-229.83  $\tau$ =22.64  $\sigma_{ID,max}$ =354.19

Asta n. 4998 (-12488 -12407) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-2937.19 M<sub>y</sub>,Ed=-96.63 M<sub>z</sub>,Ed=5.22

Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00

$\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00

K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.11+0.12+0.01=0.23

Verifica ZZ: 0.11+0.09+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=6421.24 T<sub>z</sub>=-148.19 M<sub>y</sub>=-60.02 T<sub>y</sub>=-44.97 M<sub>z</sub>=4.47 M<sub>x</sub>=-5.83

Tensioni:  $\sigma_N$ =528.06  $\sigma_M$ =219.75  $\tau$ =12.62  $\sigma_{max}$ =747.82

Tensioni:  $\sigma_N$ =528.06  $\sigma_M$ =13.71  $\tau$ =40.00  $\tau_{max}$ =40.00

Tensioni:  $\sigma_N$ =528.06  $\sigma_M$ =219.75  $\tau$ =12.62  $\sigma_{ID,max}$ =748.14

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10

Sollecitazioni: N=-2747.18 T<sub>z</sub>=-213.91 M<sub>y</sub>=-73.72 T<sub>y</sub>=-35.62 M<sub>x</sub>=-12.18

V,Ed=-35.62 Vc,Rd,Red=7696.37 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-213.91 Vc,Rd,Red=7696.37 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-1421.86 T<sub>z</sub>=-102.59 M<sub>y</sub>=-38.37 T<sub>y</sub>=-37.65 M<sub>z</sub>=5.66 M<sub>x</sub>=-9.41

Tensioni:  $\sigma_N$ =-116.93  $\sigma_M$ =-150.03  $\tau$ =20.37  $\sigma_{max}$ =-266.96

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Tensioni:  $\sigma_N=-116.93$   $\sigma_M=17.35$   $\tau=39.32$   $\tau_{max}=39.32$   
 Tensioni:  $\sigma_N=-116.93$   $\sigma_M=-150.03$   $\tau=20.37$   $\sigma_{ID,max}=269.29$

Asta n. 4998 (-12407 -12341) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2859.78 My,Ed=-64.40 Mz,Ed=1.94  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.08+0.00=0.19  
 Verifica ZZ: 0.11+0.06+0.00=0.17
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=6432.15 Tz=-96.39 My=-39.17 Ty=-16.42 Mz=1.19 Mx=-1.52  
 Tensioni:  $\sigma_N=528.96$   $\sigma_M=137.55$   $\tau=3.29$   $\sigma_{max}=666.51$   
 Tensioni:  $\sigma_N=528.96$   $\sigma_M=3.66$   $\tau=21.10$   $\tau_{max}=21.10$   
 Tensioni:  $\sigma_N=528.96$   $\sigma_M=137.55$   $\tau=3.29$   $\sigma_{ID,max}=666.53$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-2859.78 Tz=-166.88 My=-48.15 Ty=-17.83 Mx=1.09  
 V,Ed=-17.83 Vc,Rd,Red=7842.32 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-166.88 Vc,Rd,Red=7842.32 V,Ed/Vc,Rd,Red=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1377.49 Tz=-73.45 My=-24.93 Ty=-14.93 Mz=2.84 Mx=-7.68  
 Tensioni:  $\sigma_N=-113.28$   $\sigma_M=-94.60$   $\tau=16.61$   $\sigma_{max}=-207.88$   
 Tensioni:  $\sigma_N=-113.28$   $\sigma_M=8.70$   $\tau=30.18$   $\tau_{max}=30.18$   
 Tensioni:  $\sigma_N=-113.28$   $\sigma_M=-94.60$   $\tau=16.61$   $\sigma_{ID,max}=209.87$

Asta n. 4998 (-12341 -12273) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2832.92 My,Ed=-40.52 Mz,Ed=0.74  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.10+0.05+0.00=0.15  
 Verifica ZZ: 0.10+0.04+0.00=0.14
  - Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-2655.52 Tz=-130.42 My=-41.33 Ty=-5.39 Mx=1.07  
 My,Ed=-41.33 My,c,Rd=776.35  
 N,Ed=-2655.52 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
 MNy,c,Rd=776.35 My,Ed/MNy,c,Rd=0.05
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-2832.92 Tz=-137.34 My=-27.16 Ty=-7.36 Mx=8.27  
 V,Ed=-7.36 Vc,Rd,Red=7747.83 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-137.34 Vc,Rd,Red=7747.83 V,Ed/Vc,Rd,Red=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1348.96 Tz=-58.30 My=-16.11 Ty=-7.40 Mz=1.93 Mx=8.67  
 Tensioni:  $\sigma_N=-110.93$   $\sigma_M=-61.46$   $\tau=18.77$   $\sigma_{max}=-172.40$   
 Tensioni:  $\sigma_N=-110.93$   $\sigma_M=-5.92$   $\tau=29.54$   $\tau_{max}=29.54$   
 Tensioni:  $\sigma_N=-110.93$   $\sigma_M=-61.46$   $\tau=18.77$   $\sigma_{ID,max}=175.44$

Asta n. 4998 (-12273 -12201) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2817.17 My,Ed=-21.30 Mz,Ed=0.46  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

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$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.10+0.03+0.00=0.13$

Verifica ZZ:  $0.10+0.02+0.00=0.13$

- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2647.93 T<sub>z</sub>=-96.02 M<sub>y</sub>=-22.82 T<sub>y</sub>=-4.00 M<sub>x</sub>=8.93  
My,Ed=-22.82 My,c,Rd=776.35  
N,Ed=-2647.93 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
MNy,c,Rd=776.35 My,Ed/MNy,c,Rd=0.03

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-2817.17 T<sub>z</sub>=-97.97 M<sub>y</sub>=-11.79 T<sub>y</sub>=-5.70 M<sub>x</sub>=16.33  
V,Ed=-5.70 Vc,Rd,Red=7641.73 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-97.97 Vc,Rd,Red=7641.73 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1324.83 T<sub>z</sub>=-40.12 M<sub>y</sub>=-9.81 T<sub>y</sub>=-5.74 M<sub>z</sub>=1.64 M<sub>x</sub>=11.24  
Tensioni:  $\sigma_N=-108.95$   $\sigma_M=-39.01$   $\tau=24.33$   $\sigma_{max}=-147.96$   
Tensioni:  $\sigma_N=-108.95$   $\sigma_M=-5.03$   $\tau=31.74$   $\tau_{max}=31.74$   
Tensioni:  $\sigma_N=-108.95$   $\sigma_M=-39.01$   $\tau=24.33$   $\sigma_{ID,max}=153.84$

Asta n. 4998 (-12201 -12181) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2801.41 My,Ed=-7.20 Mz,Ed=-0.36  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.10+0.01+0.00=0.11$

Verifica ZZ:  $0.10+0.01+0.00=0.11$

- Verifica a trazione [4.2.5] - CC 45 SLU Xl=0.07 - Classe 1  
Sollecitazioni: N=6480.31 T<sub>z</sub>=-52.75 T<sub>y</sub>=-6.60 M<sub>x</sub>=13.80  
N,Ed=6480.31 Npl,Rd=27215.20 Nu,Rd=31518.70 N,Ed/Nt,Rd=0.24

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-2640.10 T<sub>z</sub>=-85.01 T<sub>y</sub>=-5.68 M<sub>x</sub>=16.11  
V,Ed=-5.68 Vc,Rd,Red=7644.66 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-85.01 Vc,Rd,Red=7644.66 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1301.54 T<sub>z</sub>=-33.75 M<sub>y</sub>=-4.92 T<sub>y</sub>=2.13 M<sub>z</sub>=1.49 M<sub>x</sub>=13.75  
Tensioni:  $\sigma_N=-107.03$   $\sigma_M=-21.85$   $\tau=29.75$   $\sigma_{max}=-128.89$   
Tensioni:  $\sigma_N=-107.03$   $\sigma_M=-4.57$   $\tau=35.98$   $\tau_{max}=35.98$   
Tensioni:  $\sigma_N=-107.03$   $\sigma_M=-20.17$   $\tau=34.12$   $\sigma_{ID,max}=140.27$

Asta n. 4998 (-12181 -12049) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2779.00 My,Ed=10.47 Mz,Ed=-0.91  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.10+0.01+0.00=0.12$

Verifica ZZ:  $0.10+0.01+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=6500.14 T<sub>z</sub>=-27.04 M<sub>y</sub>=5.18 T<sub>y</sub>=-10.84 M<sub>z</sub>=-1.21 M<sub>x</sub>=18.65  
Tensioni:  $\sigma_N=534.55$   $\sigma_M=21.75$   $\tau=40.37$   $\sigma_{max}=556.30$



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Tensioni:  $\sigma_N=534.55$   $\sigma_M=3.70$   $\tau=45.36$   $\tau_{max}=45.36$   
Tensioni:  $\sigma_N=534.55$   $\sigma_M=21.75$   $\tau=40.37$   $\sigma_{ID,max}=560.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.04$   
Sollecitazioni:  $N=-2624.50$   $T_z=-64.75$   $M_y=6.29$   $T_y=-9.17$   $M_x=22.57$   
 $V,Ed=-9.17$   $V_c,Rd,Red=7559.67$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-64.75$   $V_c,Rd,Red=7559.67$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-1277.70$   $T_z=-32.85$   $M_y=6.55$   $T_y=-9.15$   $M_z=-1.26$   $M_x=16.29$   
Tensioni:  $\sigma_N=-105.07$   $\sigma_M=-26.63$   $\tau=35.26$   $\sigma_{max}=-131.70$   
Tensioni:  $\sigma_N=-105.07$   $\sigma_M=3.87$   $\tau=41.33$   $\tau_{max}=41.33$   
Tensioni:  $\sigma_N=-105.07$   $\sigma_M=-26.63$   $\tau=35.26$   $\sigma_{ID,max}=145.17$

Asta n. 4998 (-12049 -11930) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2742.82$   $M_y,Ed=19.25$   $M_z,Ed=-1.91$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.10+0.02+0.00=0.13$   
Verifica ZZ:  $0.10+0.02+0.00=0.12$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=6528.92$   $T_z=-34.70$   $M_y=10.20$   $T_y=-21.91$   $M_z=-2.50$   $M_x=21.97$   
Tensioni:  $\sigma_N=536.92$   $\sigma_M=43.30$   $\tau=47.55$   $\sigma_{max}=580.22$   
Tensioni:  $\sigma_N=536.92$   $\sigma_M=7.68$   $\tau=53.96$   $\tau_{max}=53.96$   
Tensioni:  $\sigma_N=536.92$   $\sigma_M=43.30$   $\tau=47.55$   $\sigma_{ID,max}=586.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-2592.54$   $T_z=-63.46$   $M_y=13.35$   $T_y=-14.98$   $M_x=27.20$   
 $V,Ed=-14.98$   $V_c,Rd,Red=7498.70$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-63.46$   $V_c,Rd,Red=7498.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-1251.73$   $T_z=-34.59$   $M_y=9.57$   $T_y=-15.17$   $M_z=-1.16$   $M_x=18.24$   
Tensioni:  $\sigma_N=-102.94$   $\sigma_M=-36.59$   $\tau=39.48$   $\sigma_{max}=-139.53$   
Tensioni:  $\sigma_N=-102.94$   $\sigma_M=3.57$   $\tau=45.87$   $\tau_{max}=45.87$   
Tensioni:  $\sigma_N=-102.94$   $\sigma_M=-36.59$   $\tau=39.48$   $\sigma_{ID,max}=155.38$

Asta n. 4998 (-11930 -11848) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2682.47$   $M_y,Ed=24.68$   $M_z,Ed=-3.08$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.10+0.03+0.00=0.13$   
Verifica ZZ:  $0.10+0.02+0.00=0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=6604.24$   $M_y=11.29$   $T_y=-46.03$   $M_z=-5.85$   $M_x=24.69$   
Tensioni:  $\sigma_N=543.11$   $\sigma_M=58.41$   $\tau=53.42$   $\sigma_{max}=601.52$   
Tensioni:  $\sigma_N=543.11$   $\sigma_M=38.47$   $\tau=61.92$   $\tau_{max}=61.92$   
Tensioni:  $\sigma_N=543.11$   $\sigma_M=58.41$   $\tau=53.42$   $\sigma_{ID,max}=608.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-2682.45$   $T_z=-27.99$   $M_y=21.88$   $T_y=-22.42$   $M_x=38.51$   
 $V,Ed=-22.42$   $V_c,Rd,Red=7349.87$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-27.99 Vc,Rd,Red=7349.87 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1224.46 T<sub>z</sub>=-35.62 M<sub>y</sub>=14.21 T<sub>y</sub>=-30.53 M<sub>z</sub>=-2.50 M<sub>x</sub>=19.78  
Tensioni: σ<sub>N</sub>=-100.70 σ<sub>M</sub>=-56.92 τ=42.80 σ<sub>max</sub>=-157.61  
Tensioni: σ<sub>N</sub>=-100.70 σ<sub>M</sub>=7.66 τ=49.38 τ<sub>max</sub>=49.38  
Tensioni: σ<sub>N</sub>=-100.70 σ<sub>M</sub>=-56.92 τ=42.80 σ<sub>ID,max</sub>=174.17

Asta n. 4998 (-11848 -11785) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2616.78 M<sub>y</sub>,Ed=28.07 M<sub>z</sub>,Ed=-8.02  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.03+0.01=0.14  
Verifica ZZ: 0.10+0.03+0.01=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=6713.35 T<sub>z</sub>=-18.44 M<sub>y</sub>=13.64 T<sub>y</sub>=-104.73 M<sub>z</sub>=-13.61 M<sub>x</sub>=25.89  
Tensioni: σ<sub>N</sub>=552.09 σ<sub>M</sub>=92.84 τ=56.03 σ<sub>max</sub>=644.93  
Tensioni: σ<sub>N</sub>=552.09 σ<sub>M</sub>=41.82 τ=75.38 τ<sub>max</sub>=75.38  
Tensioni: σ<sub>N</sub>=552.09 σ<sub>M</sub>=92.84 τ=56.03 σ<sub>ID,max</sub>=652.19

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-2616.77 T<sub>z</sub>=-18.88 M<sub>y</sub>=26.20 T<sub>y</sub>=-75.04 M<sub>z</sub>=40.01  
V,Ed=-75.04 Vc,Rd,Red=7330.19 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-18.88 Vc,Rd,Red=7330.19 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1207.83 T<sub>z</sub>=-36.47 M<sub>y</sub>=19.35 T<sub>y</sub>=-87.93 M<sub>z</sub>=-9.34 M<sub>x</sub>=20.43  
Tensioni: σ<sub>N</sub>=-99.33 σ<sub>M</sub>=-97.78 τ=44.22 σ<sub>max</sub>=-197.11  
Tensioni: σ<sub>N</sub>=-99.33 σ<sub>M</sub>=59.36 τ=60.46 τ<sub>max</sub>=60.46  
Tensioni: σ<sub>N</sub>=-99.33 σ<sub>M</sub>=-97.78 τ=44.22 σ<sub>ID,max</sub>=211.47

Asta n. 4998 (-11785 -11719) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-2036.40 M<sub>y</sub>,Ed=-141.70 M<sub>z</sub>,Ed=5.84  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.07+0.17+0.01=0.26  
Verifica ZZ: 0.07+0.14+0.01=0.22

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=7086.67 T<sub>z</sub>=-147.84 M<sub>y</sub>=-77.79 T<sub>y</sub>=-155.36 M<sub>z</sub>=18.09 M<sub>x</sub>=8.10  
Tensioni: σ<sub>N</sub>=582.78 σ<sub>M</sub>=326.70 τ=17.52 σ<sub>max</sub>=909.49  
Tensioni: σ<sub>N</sub>=582.78 σ<sub>M</sub>=-238.56 τ=46.26 τ<sub>max</sub>=46.26  
Tensioni: σ<sub>N</sub>=582.78 σ<sub>M</sub>=326.70 τ=17.52 σ<sub>ID,max</sub>=910.00

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.10  
Sollecitazioni: N=-1542.26 T<sub>z</sub>=-232.14 M<sub>y</sub>=-93.02 T<sub>y</sub>=28.18 M<sub>z</sub>=33.92  
V,Ed=28.18 Vc,Rd,Red=7410.27 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-232.14 Vc,Rd,Red=7410.27 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1001.10 T<sub>z</sub>=-124.53 M<sub>y</sub>=-58.40 T<sub>y</sub>=-80.27 M<sub>z</sub>=11.25 M<sub>x</sub>=12.85  
Tensioni: σ<sub>N</sub>=-82.33 σ<sub>M</sub>=-237.33 τ=27.82 σ<sub>max</sub>=-319.66  
Tensioni: σ<sub>N</sub>=-82.33 σ<sub>M</sub>=-34.50 τ=50.83 τ<sub>max</sub>=50.83  
Tensioni: σ<sub>N</sub>=-82.33 σ<sub>M</sub>=-237.33 τ=27.82 σ<sub>ID,max</sub>=323.27

Asta n. 4998 (-11719 -11648) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-1862.23 My,Ed=-101.56 Mz,Ed=5.50  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.12+0.01=0.20

Verifica ZZ: 0.07+0.10+0.01=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=7089.97 Tz=-145.20 My=-56.24 Ty=-61.87 Mz=6.04 Mx=10.68

Tensioni:  $\sigma_N=583.06$   $\sigma_M=212.22$   $\tau=23.11$   $\sigma_{max}=795.28$

Tensioni:  $\sigma_N=583.06$   $\sigma_M=-18.52$   $\tau=49.94$   $\tau_{max}=49.94$

Tensioni:  $\sigma_N=583.06$   $\sigma_M=212.22$   $\tau=23.11$   $\sigma_{ID,max}=796.28$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10

Sollecitazioni: N=-1725.33 Tz=-226.98 My=-77.82 Ty=-36.93 Mx=5.72

V,Ed=-36.93 Vc,Rd,Red=7781.28 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-226.98 Vc,Rd,Red=7781.28 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-931.74 Tz=-104.41 My=-40.72 Ty=-38.48 Mz=5.26 Mx=14.15

Tensioni:  $\sigma_N=-76.62$   $\sigma_M=-156.69$   $\tau=30.63$   $\sigma_{max}=-233.31$

Tensioni:  $\sigma_N=-76.62$   $\sigma_M=-16.14$   $\tau=49.92$   $\tau_{max}=49.92$

Tensioni:  $\sigma_N=-76.62$   $\sigma_M=-154.90$   $\tau=35.61$   $\sigma_{ID,max}=239.60$

Asta n. 4998 (-11648 -11581) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-1736.82 My,Ed=-68.16 Mz,Ed=2.29

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.06+0.08+0.00=0.15

Verifica ZZ: 0.06+0.07+0.00=0.13

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=7114.60 Tz=-95.96 My=-35.79 Ty=-24.51 Mz=1.74 Mx=15.28

Tensioni:  $\sigma_N=585.08$   $\sigma_M=127.89$   $\tau=33.07$   $\sigma_{max}=712.97$

Tensioni:  $\sigma_N=585.08$   $\sigma_M=-5.34$   $\tau=50.79$   $\tau_{max}=50.79$

Tensioni:  $\sigma_N=585.08$   $\sigma_M=127.89$   $\tau=33.07$   $\sigma_{ID,max}=715.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10

Sollecitazioni: N=-1736.82 Tz=-178.92 My=-50.73 Ty=-21.63 Mx=22.05

V,Ed=-21.63 Vc,Rd,Red=7566.52 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-178.92 Vc,Rd,Red=7566.52 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-872.77 Tz=-78.91 My=-26.17 Ty=-16.77 Mz=2.49 Mx=16.50

Tensioni:  $\sigma_N=-71.77$   $\sigma_M=-97.67$   $\tau=35.70$   $\sigma_{max}=-169.44$

Tensioni:  $\sigma_N=-71.77$   $\sigma_M=-7.63$   $\tau=50.27$   $\tau_{max}=50.27$

Tensioni:  $\sigma_N=-71.77$   $\sigma_M=-96.82$   $\tau=37.87$   $\sigma_{ID,max}=180.90$

Asta n. 4998 (-11581 -11511) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-1658.85 My,Ed=-42.51 Mz,Ed=0.90

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.06+0.05+0.00=0.11  
 Verifica ZZ: 0.06+0.04+0.00=0.10

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-1658.83 T<sub>z</sub>=-147.80 M<sub>y</sub>=-42.51 T<sub>y</sub>=-10.22 M<sub>x</sub>=29.63  
 M<sub>y</sub>,Ed=-42.51 M<sub>y</sub>,c,Rd=776.35  
 N,Ed=-1658.83 N<sub>c</sub>,Rd=27215.20 n=N,Ed/N<sub>c</sub>,Rd=0.06  
 MN<sub>y</sub>,c,Rd=776.35 M<sub>y</sub>,Ed/MN<sub>y</sub>,c,Rd=0.05
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-1658.85 T<sub>z</sub>=-149.06 M<sub>y</sub>=-28.00 T<sub>y</sub>=-10.22 M<sub>x</sub>=29.63  
 V,Ed=-10.22 V<sub>c</sub>,Rd,Red=7466.77 V,Ed/V<sub>c</sub>,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-149.06 V<sub>c</sub>,Rd,Red=7466.77 V,Ed/V<sub>c</sub>,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-827.02 T<sub>z</sub>=-63.44 M<sub>y</sub>=-15.89 T<sub>y</sub>=-8.86 M<sub>z</sub>=1.51 M<sub>x</sub>=19.02  
 Tensioni: σ<sub>N</sub>=-68.01 σ<sub>M</sub>=-59.28 τ=41.16 σ<sub>max</sub>=-127.29  
 Tensioni: σ<sub>N</sub>=-68.01 σ<sub>M</sub>=-4.63 τ=52.88 τ<sub>max</sub>=52.88  
 Tensioni: σ<sub>N</sub>=-68.01 σ<sub>M</sub>=-53.87 τ=49.38 σ<sub>ID,max</sub>=148.89

Asta n. 4998 (-11511 -11441) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1591.22 M<sub>y</sub>,Ed=-21.32 M<sub>z</sub>,Ed=0.47  
 Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=3.15 Ncr,y=25462900.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.15 Ncr,z=25462900.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.06+0.03+0.00=0.09  
 Verifica ZZ: 0.06+0.02+0.00=0.08
- Verifica a pressoflessione retta - CC 75 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-1472.92 T<sub>z</sub>=-117.92 M<sub>y</sub>=-21.68 T<sub>y</sub>=-6.29 M<sub>x</sub>=27.86  
 M<sub>y</sub>,Ed=-21.68 M<sub>y</sub>,c,Rd=776.35  
 N,Ed=-1472.92 N<sub>c</sub>,Rd=27215.20 n=N,Ed/N<sub>c</sub>,Rd=0.05  
 MN<sub>y</sub>,c,Rd=776.35 M<sub>y</sub>,Ed/MN<sub>y</sub>,c,Rd=0.03
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-1591.22 T<sub>z</sub>=-120.13 M<sub>y</sub>=-9.64 T<sub>y</sub>=-8.27 M<sub>x</sub>=37.71  
 V,Ed=-8.27 V<sub>c</sub>,Rd,Red=7360.35 V,Ed/V<sub>c</sub>,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-120.13 V<sub>c</sub>,Rd,Red=7360.35 V,Ed/V<sub>c</sub>,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-784.90 T<sub>z</sub>=-47.89 M<sub>y</sub>=-8.84 T<sub>y</sub>=-7.02 M<sub>z</sub>=1.15 M<sub>x</sub>=21.83  
 Tensioni: σ<sub>N</sub>=-64.55 σ<sub>M</sub>=-34.04 τ=47.24 σ<sub>max</sub>=-98.58  
 Tensioni: σ<sub>N</sub>=-64.55 σ<sub>M</sub>=-3.54 τ=56.08 τ<sub>max</sub>=56.08  
 Tensioni: σ<sub>N</sub>=-64.55 σ<sub>M</sub>=-31.03 τ=53.44 σ<sub>ID,max</sub>=133.05

Asta n. 4998 (-11441 -11371) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1524.29 M<sub>y</sub>,Ed=7.01 M<sub>z</sub>,Ed=-0.70  
 Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
 λ<sub>y</sub>=3.15 Ncr,y=25462900.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
 λ<sub>z</sub>=3.15 Ncr,z=25462900.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.06+0.01+0.00=0.07  
 Verifica ZZ: 0.06+0.01+0.00=0.06
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=7246.32 T<sub>z</sub>=-63.62 M<sub>y</sub>=6.34 T<sub>y</sub>=-11.63 M<sub>z</sub>=-1.26 M<sub>x</sub>=31.20  
 Tensioni: σ<sub>N</sub>=595.91 σ<sub>M</sub>=25.92 τ=67.52 σ<sub>max</sub>=621.83  
 Tensioni: σ<sub>N</sub>=595.91 σ<sub>M</sub>=3.88 τ=79.27 τ<sub>max</sub>=79.27  
 Tensioni: σ<sub>N</sub>=595.91 σ<sub>M</sub>=23.76 τ=75.75 σ<sub>ID,max</sub>=633.41

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-1524.29$   $T_z=-111.14$   $M_y=7.01$   $T_y=-9.55$   $M_x=44.92$   
 $V,Ed=-9.55$   $V_c,Rd,Red=7265.59$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-111.14$   $V_c,Rd,Red=7265.59$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-743.63$   $T_z=-42.53$   $M_y=6.24$   $T_y=1.82$   $M_x=24.37$   
Tensioni:  $\sigma_N=-61.15$   $\sigma_M=-21.27$   $\tau=52.74$   $\sigma_{max}=-82.43$   
Tensioni:  $\sigma_N=-61.15$   $\sigma_M=-0.00$   $\tau=60.59$   $\tau_{max}=60.59$   
Tensioni:  $\sigma_N=-61.15$   $\sigma_M=-19.14$   $\tau=58.24$   $\sigma_{ID,max}=128.94$

Asta n. 4998 (-11371 -11305) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1451.46$   $M_y,Ed=22.91$   $M_z,Ed=-1.36$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.05+0.03+0.00=0.08$   
Verifica ZZ:  $0.05+0.02+0.00=0.08$
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=7293.23$   $T_z=-48.41$   $M_y=13.92$   $T_y=-17.65$   $M_z=-2.03$   $M_x=35.86$   
Tensioni:  $\sigma_N=599.77$   $\sigma_M=54.37$   $\tau=77.62$   $\sigma_{max}=654.14$   
Tensioni:  $\sigma_N=599.77$   $\sigma_M=6.24$   $\tau=86.56$   $\tau_{max}=86.56$   
Tensioni:  $\sigma_N=599.77$   $\sigma_M=53.67$   $\tau=79.90$   $\sigma_{ID,max}=667.94$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.06$   
Sollecitazioni:  $N=-1451.45$   $T_z=-105.17$   $M_y=19.16$   $T_y=-12.94$   $M_x=50.90$   
 $V,Ed=-12.94$   $V_c,Rd,Red=7186.87$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-105.17$   $V_c,Rd,Red=7186.87$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-701.88$   $T_z=-40.42$   $M_y=11.00$   $T_y=1.98$   $M_x=26.56$   
Tensioni:  $\sigma_N=-57.72$   $\sigma_M=-37.49$   $\tau=57.48$   $\sigma_{max}=-95.21$   
Tensioni:  $\sigma_N=-57.72$   $\sigma_M=-0.00$   $\tau=64.95$   $\tau_{max}=64.95$   
Tensioni:  $\sigma_N=-57.72$   $\sigma_M=-33.74$   $\tau=62.72$   $\sigma_{ID,max}=142.00$
- Asta n. 4998 (-11305 -11233) Tubo 80x80x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1366.79$   $M_y,Ed=39.68$   $M_z,Ed=-2.02$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.05+0.05+0.00=0.10$   
Verifica ZZ:  $0.05+0.04+0.00=0.09$
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=7346.55$   $T_z=-59.23$   $M_y=22.55$   $T_y=-31.24$   $M_z=-3.74$   $M_x=39.15$   
Tensioni:  $\sigma_N=604.16$   $\sigma_M=89.61$   $\tau=84.73$   $\sigma_{max}=693.77$   
Tensioni:  $\sigma_N=604.16$   $\sigma_M=11.48$   $\tau=95.67$   $\tau_{max}=95.67$   
Tensioni:  $\sigma_N=604.16$   $\sigma_M=88.33$   $\tau=88.78$   $\sigma_{ID,max}=709.36$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.02$   
Sollecitazioni:  $N=-1366.77$   $T_z=-110.81$   $M_y=30.77$   $T_y=-14.21$   $M_x=55.00$   
 $V,Ed=-14.21$   $V_c,Rd,Red=7132.85$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-110.81$   $V_c,Rd,Red=7132.85$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-658.35$   $T_z=-43.59$   $M_y=15.95$   $T_y=4.84$   $M_x=28.09$   
 Tensioni:  $\sigma_N=-54.14$   $\sigma_M=-54.34$   $\tau=60.80$   $\sigma_{max}=-108.48$   
 Tensioni:  $\sigma_N=-54.14$   $\sigma_M=-0.00$   $\tau=68.85$   $\tau_{max}=68.85$   
 Tensioni:  $\sigma_N=-54.14$   $\sigma_M=-48.91$   $\tau=66.44$   $\sigma_{ID,max}=154.48$

Asta n. 4998 (-11233 -11167) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1273.53$   $M_y,Ed=56.88$   $M_z,Ed=-1.13$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.07+0.00=0.12$   
 Verifica ZZ:  $0.05+0.06+0.00=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=7432.23$   $T_z=-41.54$   $M_y=29.39$   $T_y=-64.74$   $M_z=-8.27$   $M_x=41.27$   
 Tensioni:  $\sigma_N=611.20$   $\sigma_M=128.34$   $\tau=89.32$   $\sigma_{max}=739.54$   
 Tensioni:  $\sigma_N=611.20$   $\sigma_M=90.14$   $\tau=101.28$   $\tau_{max}=101.28$   
 Tensioni:  $\sigma_N=611.20$   $\sigma_M=125.52$   $\tau=97.71$   $\sigma_{ID,max}=755.91$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_1=0.10$   
 Sollecitazioni:  $N=-1273.53$   $T_z=-111.99$   $M_y=56.88$   $T_y=2.44$   $M_x=57.23$   
 $V,Ed=2.44$   $V_c,Rd,Red=7103.62$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-111.99$   $V_c,Rd,Red=7103.62$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-618.78$   $T_z=-48.38$   $M_y=21.62$   $T_y=21.91$   $M_z=-2.17$   $M_x=28.92$   
 Tensioni:  $\sigma_N=-50.89$   $\sigma_M=-81.07$   $\tau=62.59$   $\sigma_{max}=-131.95$   
 Tensioni:  $\sigma_N=-50.89$   $\sigma_M=6.66$   $\tau=71.53$   $\tau_{max}=71.53$   
 Tensioni:  $\sigma_N=-50.89$   $\sigma_M=-80.33$   $\tau=65.43$   $\sigma_{ID,max}=173.38$

Asta n. 4998 (-11167 -11101) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1185.28$   $M_y,Ed=73.56$   $M_z,Ed=1.79$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.09+0.00=0.14$   
 Verifica ZZ:  $0.04+0.07+0.00=0.12$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=7568.48$   $T_z=-62.45$   $M_y=37.94$   $T_y=-125.99$   $M_z=-17.07$   $M_x=42.59$   
 Tensioni:  $\sigma_N=622.41$   $\sigma_M=187.47$   $\tau=92.17$   $\sigma_{max}=809.87$   
 Tensioni:  $\sigma_N=622.41$   $\sigma_M=116.37$   $\tau=115.44$   $\tau_{max}=115.44$   
 Tensioni:  $\sigma_N=622.41$   $\sigma_M=181.65$   $\tau=108.48$   $\sigma_{ID,max}=825.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_1=0.01$   
 Sollecitazioni:  $N=-1076.08$   $T_z=-117.94$   $M_y=63.68$   $T_y=12.08$   $M_x=48.35$   
 $V,Ed=12.08$   $V_c,Rd,Red=7220.47$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-117.94$   $V_c,Rd,Red=7220.47$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-592.26$   $T_z=-51.35$   $M_y=28.20$   $T_y=55.72$   $M_z=-6.08$   $M_x=29.28$   
 Tensioni:  $\sigma_N=-48.71$   $\sigma_M=-116.84$   $\tau=63.37$   $\sigma_{max}=-165.54$   
 Tensioni:  $\sigma_N=-48.71$   $\sigma_M=-86.50$   $\tau=73.66$   $\tau_{max}=73.66$   
 Tensioni:  $\sigma_N=-48.71$   $\sigma_M=-114.76$   $\tau=70.58$   $\sigma_{ID,max}=204.13$

Asta n. 4998 (-11101 -11031) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -495.48$  My,  $Ed = -111.88$  Mz,  $Ed = 0.65$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25463900.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25463900.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02 + 0.14 + 0.00 = 0.16$   
 Verifica ZZ:  $0.02 + 0.11 + 0.00 = 0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 7996.00$   $T_z = -52.46$   $M_y = -35.15$   $T_y = -255.69$   $M_z = 27.34$   $M_x = 28.46$   
 Tensioni:  $\sigma_N = 657.57$   $\sigma_M = 212.94$   $\tau = 61.59$   $\sigma_{max} = 870.51$   
 Tensioni:  $\sigma_N = 657.57$   $\sigma_M = -107.79$   $\tau = 108.82$   $\tau_{max} = 108.82$   
 Tensioni:  $\sigma_N = 657.57$   $\sigma_M = 212.94$   $\tau = 61.59$   $\sigma_{ID, max} = 877.02$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -401.17$   $T_z = -201.32$   $M_y = -93.34$   $T_y = 17.14$   $M_x = 28.50$   
 $V, Ed = 17.14$   $V_c, Rd, Red = 7481.65$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -201.32$   $V_c, Rd, Red = 7481.65$   $V, Ed/V_c, Rd, Red = 0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -366.23$   $T_z = -101.75$   $M_y = -50.16$   $T_y = -53.24$   $M_z = -6.24$   $M_x = 22.61$   
 Tensioni:  $\sigma_N = -30.12$   $\sigma_M = -192.21$   $\tau = 48.92$   $\sigma_{max} = -222.32$   
 Tensioni:  $\sigma_N = -30.12$   $\sigma_M = 19.15$   $\tau = 67.72$   $\tau_{max} = 67.72$   
 Tensioni:  $\sigma_N = -30.12$   $\sigma_M = -190.08$   $\tau = 55.82$   $\sigma_{ID, max} = 240.49$

Asta n. 4998 (-11031 -10958) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -341.11$  My,  $Ed = -84.06$  Mz,  $Ed = 3.34$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25462900.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25462900.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01 + 0.10 + 0.00 = 0.12$   
 Verifica ZZ:  $0.01 + 0.08 + 0.00 = 0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 7959.05$   $T_z = -58.54$   $M_y = -27.27$   $T_y = -88.14$   $M_z = 7.01$   $M_x = 30.98$   
 Tensioni:  $\sigma_N = 654.53$   $\sigma_M = 116.82$   $\tau = 67.05$   $\sigma_{max} = 771.35$   
 Tensioni:  $\sigma_N = 654.53$   $\sigma_M = -83.65$   $\tau = 83.33$   $\tau_{max} = 83.33$   
 Tensioni:  $\sigma_N = 654.53$   $\sigma_M = 116.82$   $\tau = 67.05$   $\sigma_{ID, max} = 780.04$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -238.68$   $T_z = -155.56$   $M_y = -68.76$   $T_y = -27.94$   $M_x = 32.47$   
 $V, Ed = -27.94$   $V_c, Rd, Red = 7429.41$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -155.56$   $V_c, Rd, Red = 7429.41$   $V, Ed/V_c, Rd, Red = 0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -322.81$   $T_z = -81.92$   $M_y = -35.52$   $T_y = -26.59$   $M_z = 3.25$   $M_x = 23.74$   
 Tensioni:  $\sigma_N = -26.55$   $\sigma_M = -132.12$   $\tau = 51.38$   $\sigma_{max} = -158.66$   
 Tensioni:  $\sigma_N = -26.55$   $\sigma_M = -9.98$   $\tau = 66.52$   $\tau_{max} = 66.52$   
 Tensioni:  $\sigma_N = -26.55$   $\sigma_M = -131.01$   $\tau = 54.83$   $\sigma_{ID, max} = 183.96$

Asta n. 4998 (-10958 -10897) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -239.21$  My,  $Ed = -62.18$  Mz,  $Ed = 1.33$   
 Resistenze:  $N_c, Rd = 27215.20$  My,  $c, Rd = 656.79$  Mz,  $c, Rd = 656.79$  L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$  Ncr,  $y = 25463900.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$  Ncr,  $z = 25463900.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01 + 0.08 + 0.00 = 0.09$

Verifica ZZ:  $0.01+0.06+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7978.86$   $T_z=-32.00$   $M_y=-19.32$   $T_y=-36.76$   $M_z=1.09$   $M_x=34.77$   
 Tensioni:  $\sigma_N=656.16$   $\sigma_M=69.54$   $\tau=75.25$   $\sigma_{max}=725.70$   
 Tensioni:  $\sigma_N=656.16$   $\sigma_M=-59.24$   $\tau=82.04$   $\tau_{max}=82.04$   
 Tensioni:  $\sigma_N=656.16$   $\sigma_M=69.54$   $\tau=75.25$   $\sigma_{ID,max}=737.31$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-135.58$   $T_z=-134.11$   $M_y=-48.50$   $T_y=-16.60$   $M_x=38.02$   
 $V,Ed=-16.60$   $Vc,Rd,Red=7356.39$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-134.11$   $Vc,Rd,Red=7356.39$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-279.29$   $T_z=-67.63$   $M_y=-23.97$   $T_y=-12.98$   $M_z=1.53$   $M_x=25.47$   
 Tensioni:  $\sigma_N=-22.97$   $\sigma_M=-86.88$   $\tau=55.11$   $\sigma_{max}=-109.85$   
 Tensioni:  $\sigma_N=-22.97$   $\sigma_M=-4.68$   $\tau=67.60$   $\tau_{max}=67.60$   
 Tensioni:  $\sigma_N=-22.97$   $\sigma_M=-78.71$   $\tau=63.87$   $\sigma_{ID,max}=150.25$

Asta n. 4998 (-10897 -10851) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-202.94$   $M_y,Ed=-43.45$   $M_z,Ed=-0.70$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.05+0.00=0.06$   
 Verifica ZZ:  $0.01+0.04+0.00=0.05$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.01$  - Classe 3  
 Sollecitazioni:  $N=8021.88$   $T_z=-35.65$   $M_y=-14.23$   $T_y=-23.92$   $M_z=-1.09$   $M_x=39.49$   
 Tensioni:  $\sigma_N=659.69$   $\sigma_M=52.21$   $\tau=85.47$   $\sigma_{max}=711.90$   
 Tensioni:  $\sigma_N=659.69$   $\sigma_M=3.33$   $\tau=92.05$   $\tau_{max}=92.05$   
 Tensioni:  $\sigma_N=659.69$   $\sigma_M=52.21$   $\tau=85.47$   $\sigma_{ID,max}=727.13$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-202.94$   $T_z=-114.25$   $M_y=-32.35$   $T_y=-9.26$   $M_x=54.86$   
 $V,Ed=-9.26$   $Vc,Rd,Red=7134.70$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-114.25$   $Vc,Rd,Red=7134.70$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-245.46$   $T_z=-55.19$   $M_y=-15.78$   $T_y=-7.89$   $M_x=27.54$   
 Tensioni:  $\sigma_N=-20.19$   $\sigma_M=-53.77$   $\tau=59.59$   $\sigma_{max}=-73.95$   
 Tensioni:  $\sigma_N=-20.19$   $\sigma_M=0.00$   $\tau=69.79$   $\tau_{max}=69.79$   
 Tensioni:  $\sigma_N=-20.19$   $\sigma_M=-48.39$   $\tau=66.74$   $\sigma_{ID,max}=134.41$

Asta n. 4998 (-10851 -10751) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-180.29$   $M_y,Ed=-26.72$   $M_z,Ed=-1.08$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.00=0.04$   
 Verifica ZZ:  $0.01+0.03+0.00=0.03$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=8063.26$   $T_z=-26.32$   $M_y=-8.20$   $T_y=-26.30$   $M_z=-3.22$   $M_x=44.83$   
 Tensioni:  $\sigma_N=663.10$   $\sigma_M=38.92$   $\tau=97.01$   $\sigma_{max}=702.02$   
 Tensioni:  $\sigma_N=663.10$   $\sigma_M=9.88$   $\tau=101.87$   $\tau_{max}=101.87$   
 Tensioni:  $\sigma_N=663.10$   $\sigma_M=38.92$   $\tau=97.01$   $\sigma_{ID,max}=721.85$



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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.08$   
 Sollecitazioni:  $N=-180.28$   $T_z=-116.58$   $M_y=-17.44$   $T_y=-9.23$   $M_x=61.73$   
 $V,Ed=-9.23$   $V_c,Rd,Red=7044.38$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-116.58$   $V_c,Rd,Red=7044.38$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-211.16$   $T_z=-49.26$   $M_y=-10.51$   $T_y=1.74$   $M_x=29.58$   
 Tensioni:  $\sigma_N=-17.37$   $\sigma_M=-35.80$   $\tau=64.02$   $\sigma_{max}=-53.16$   
 Tensioni:  $\sigma_N=-17.37$   $\sigma_M=0.00$   $\tau=73.12$   $\tau_{max}=73.12$   
 Tensioni:  $\sigma_N=-17.37$   $\sigma_M=-32.22$   $\tau=70.40$   $\sigma_{ID,max}=131.63$

Asta n. 4998 (-10751 -10665) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-175.60$   $M_y,Ed=-11.93$   $M_z,Ed=-1.35$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.01+0.00=0.02$   
 Verifica ZZ:  $0.01+0.01+0.00=0.02$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.01$  - Classe 3  
 Sollecitazioni:  $N=8091.01$   $T_z=-41.99$   $M_y=-4.98$   $T_y=-37.56$   $M_z=-3.32$   $M_x=49.78$   
 Tensioni:  $\sigma_N=665.38$   $\sigma_M=28.31$   $\tau=107.73$   $\sigma_{max}=693.69$   
 Tensioni:  $\sigma_N=665.38$   $\sigma_M=10.19$   $\tau=115.49$   $\tau_{max}=115.49$   
 Tensioni:  $\sigma_N=665.38$   $\sigma_M=26.61$   $\tau=113.17$   $\sigma_{ID,max}=719.22$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.07$   
 Sollecitazioni:  $N=-161.35$   $T_z=-134.13$   $T_y=-12.55$   $M_z=-1.48$   $M_x=67.80$   
 $V,Ed=-12.55$   $V_c,Rd,Red=6964.55$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-134.13$   $V_c,Rd,Red=6964.55$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-174.18$   $T_z=-52.32$   $M_y=6.96$   $T_y=-8.84$   $M_x=31.32$   
 Tensioni:  $\sigma_N=-14.32$   $\sigma_M=-23.72$   $\tau=67.78$   $\sigma_{max}=-38.04$   
 Tensioni:  $\sigma_N=-14.32$   $\sigma_M=-0.00$   $\tau=77.44$   $\tau_{max}=77.44$   
 Tensioni:  $\sigma_N=-14.32$   $\sigma_M=-0.00$   $\tau=77.44$   $\sigma_{ID,max}=134.89$

Asta n. 4998 (-10665 -10624) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-140.19$   $M_y,Ed=28.00$   $M_z,Ed=-2.87$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.03+0.00=0.04$   
 Verifica ZZ:  $0.01+0.03+0.00=0.04$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=8078.34$   $T_z=-46.19$   $M_y=5.54$   $T_y=-55.69$   $M_z=-10.51$   $M_x=53.90$   
 Tensioni:  $\sigma_N=664.34$   $\sigma_M=54.67$   $\tau=116.64$   $\sigma_{max}=719.00$   
 Tensioni:  $\sigma_N=664.34$   $\sigma_M=16.98$   $\tau=126.92$   $\tau_{max}=126.92$   
 Tensioni:  $\sigma_N=664.34$   $\sigma_M=52.78$   $\tau=122.62$   $\sigma_{ID,max}=747.90$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-140.56$   $T_z=-133.46$   $M_y=8.96$   $T_y=-13.05$   $M_x=63.82$   
 $V,Ed=-13.05$   $V_c,Rd,Red=7016.83$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-133.46$   $V_c,Rd,Red=7016.83$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

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Sollecitazioni:  $N=-133.18$   $T_z=-61.93$   $M_y=14.76$   $T_y=1.38$   $M_x=32.40$   
Tensioni:  $\sigma_N=-10.95$   $\sigma_M=-50.30$   $\tau=70.11$   $\sigma_{max}=-61.26$   
Tensioni:  $\sigma_N=-10.95$   $\sigma_M=-0.00$   $\tau=81.55$   $\tau_{max}=81.55$   
Tensioni:  $\sigma_N=-10.95$   $\sigma_M=-45.27$   $\tau=78.13$   $\sigma_{ID,max}=146.54$

Asta n. 4998 (-10624 -10465) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-111.55$   $M_y,Ed=58.84$   $M_z,Ed=-3.11$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.00+0.07+0.00=0.08$   
Verifica ZZ:  $0.00+0.06+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=7970.39$   $T_z=-80.60$   $M_y=16.70$   $T_y=-71.21$   $M_z=-15.62$   $M_x=56.32$   
Tensioni:  $\sigma_N=655.46$   $\sigma_M=110.14$   $\tau=121.88$   $\sigma_{max}=765.60$   
Tensioni:  $\sigma_N=655.46$   $\sigma_M=47.91$   $\tau=136.77$   $\tau_{max}=136.77$   
Tensioni:  $\sigma_N=655.46$   $\sigma_M=110.14$   $\tau=121.88$   $\sigma_{ID,max}=794.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 95 SLU  $X_l=0.02$

Sollecitazioni:  $N=-81.33$   $T_z=-87.92$   $M_y=17.79$   $T_y=-2.06$   $M_x=38.38$   
 $V,Ed=-2.06$   $V_c,Rd,Red=7351.56$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-87.92$   $V_c,Rd,Red=7351.56$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=33.04$   $T_z=-77.55$   $M_y=24.85$   $T_y=-9.91$   $M_z=-1.73$   $M_x=32.68$   
Tensioni:  $\sigma_N=2.72$   $\sigma_M=90.56$   $\tau=70.72$   $\sigma_{max}=93.28$   
Tensioni:  $\sigma_N=2.72$   $\sigma_M=5.31$   $\tau=85.04$   $\tau_{max}=85.04$   
Tensioni:  $\sigma_N=2.72$   $\sigma_M=82.10$   $\tau=80.76$   $\sigma_{ID,max}=163.58$

Asta n. 4998 (-10465 -10396) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-81.98$   $M_y,Ed=96.59$   $M_z,Ed=3.65$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.00+0.12+0.01=0.13$   
Verifica ZZ:  $0.00+0.09+0.01=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=7647.38$   $T_z=-82.91$   $M_y=29.13$   $T_y=-34.13$   $M_z=-17.71$   $M_x=56.45$   
Tensioni:  $\sigma_N=628.90$   $\sigma_M=159.61$   $\tau=122.16$   $\sigma_{max}=788.50$   
Tensioni:  $\sigma_N=628.90$   $\sigma_M=54.31$   $\tau=137.47$   $\tau_{max}=137.47$   
Tensioni:  $\sigma_N=628.90$   $\sigma_M=159.61$   $\tau=122.16$   $\sigma_{ID,max}=816.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU  $X_l=0.03$

Sollecitazioni:  $N=-162.03$   $T_z=-245.26$   $M_y=68.57$   $T_y=93.34$   $M_x=92.45$   
 $V,Ed=93.34$   $V_c,Rd,Red=6640.17$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-245.26$   $V_c,Rd,Red=6640.17$   $V,Ed/V_c,Rd,Red=0.04$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-50.17$   $T_z=-95.78$   $M_y=37.22$   $T_y=37.26$   $M_z=2.48$   $M_x=31.85$   
Tensioni:  $\sigma_N=-4.13$   $\sigma_M=-135.29$   $\tau=68.94$   $\sigma_{max}=-139.42$   
Tensioni:  $\sigma_N=-4.13$   $\sigma_M=-7.62$   $\tau=86.63$   $\tau_{max}=86.63$   
Tensioni:  $\sigma_N=-4.13$   $\sigma_M=-122.61$   $\tau=81.34$   $\sigma_{ID,max}=189.50$

Asta n. 4998 (-10396 3503) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 68 SLU - Classe 3

Sollecitazioni: N,Ed=-143.12 My,Ed=124.76 Mz,Ed=45.42  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.15+0.07=0.22  
 Verifica ZZ: 0.01+0.12+0.07=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=6813.38 Tz=-113.61 My=45.04 Ty=271.70 Mz=10.29 Mx=53.74  
 Tensioni:  $\sigma_N=560.31$   $\sigma_M=188.56$   $\tau=116.30$   $\sigma_{max}=748.87$   
 Tensioni:  $\sigma_N=560.31$   $\sigma_M=-138.14$   $\tau=166.49$   $\tau_{max}=166.49$   
 Tensioni:  $\sigma_N=560.31$   $\sigma_M=188.56$   $\tau=116.30$   $\sigma_{ID,max}=775.49$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.03  
 Sollecitazioni: N=4069.10 Tz=-198.56 My=79.26 Ty=311.26 Mz=62.52  
 V,Ed=311.26 Vc,Rd,Red=7033.91 V,Ed/Vc,Rd,Red=0.04
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-198.56 Vc,Rd,Red=7033.91 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-36.88 Tz=-100.46 My=51.21 Ty=161.83 Mz=17.33 Mx=29.92  
 Tensioni:  $\sigma_N=-3.03$   $\sigma_M=-233.57$   $\tau=64.75$   $\sigma_{max}=-236.60$   
 Tensioni:  $\sigma_N=-3.03$   $\sigma_M=-157.05$   $\tau=94.65$   $\tau_{max}=94.65$   
 Tensioni:  $\sigma_N=-3.03$   $\sigma_M=-227.66$   $\tau=85.70$   $\sigma_{ID,max}=274.33$

Asta n. 4999 (3502 -10376) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 25 SLU - Classe 3  
 Sollecitazioni: N,Ed=-72.24 My,Ed=162.02 Mz,Ed=-17.74  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.20+0.03=0.23  
 Verifica ZZ: 0.00+0.16+0.03=0.19
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=6777.81 Tz=174.66 My=57.16 Ty=193.01 Mz=18.53 Mx=43.71  
 Tensioni:  $\sigma_N=557.38$   $\sigma_M=257.94$   $\tau=94.58$   $\sigma_{max}=815.33$   
 Tensioni:  $\sigma_N=557.38$   $\sigma_M=-175.31$   $\tau=130.25$   $\tau_{max}=130.25$   
 Tensioni:  $\sigma_N=557.38$   $\sigma_M=257.94$   $\tau=94.58$   $\sigma_{ID,max}=831.63$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.09  
 Sollecitazioni: N=-82.79 Tz=335.68 My=135.87 Ty=154.43 Mz=50.62  
 V,Ed=154.43 Vc,Rd,Red=7190.55 V,Ed/Vc,Rd,Red=0.02
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=335.68 Vc,Rd,Red=7190.55 V,Ed/Vc,Rd,Red=0.05
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-98.34 Tz=129.74 My=64.20 Ty=210.95 Mz=-19.67 Mx=26.49  
 Tensioni:  $\sigma_N=-8.09$   $\sigma_M=-285.79$   $\tau=57.33$   $\sigma_{max}=-293.88$   
 Tensioni:  $\sigma_N=-8.09$   $\sigma_M=-196.89$   $\tau=96.30$   $\tau_{max}=96.30$   
 Tensioni:  $\sigma_N=-8.09$   $\sigma_M=-279.09$   $\tau=84.64$   $\sigma_{ID,max}=322.44$

Asta n. 4999 (-10376 -10426) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-75.78 My,Ed=116.17 Mz,Ed=3.33  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.14+0.00=0.15  
 Verifica ZZ: 0.00+0.11+0.00=0.12

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7633.48$   $T_z=127.64$   $M_y=49.22$   $T_y=-60.20$   $M_z=20.52$   $M_x=46.24$   
 Tensioni:  $\sigma_N=627.75$   $\sigma_M=237.66$   $\tau=100.08$   $\sigma_{max}=865.42$   
 Tensioni:  $\sigma_N=627.75$   $\sigma_M=62.95$   $\tau=123.66$   $\tau_{max}=123.66$   
 Tensioni:  $\sigma_N=627.75$   $\sigma_M=237.66$   $\tau=100.08$   $\sigma_{ID,max}=882.61$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-21.99$   $T_z=157.08$   $M_y=66.44$   $T_y=15.75$   $M_x=19.66$   
 $V,Ed=15.75$   $Vc,Rd,Red=7597.87$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=157.08$   $Vc,Rd,Red=7597.87$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-99.68$   $T_z=109.01$   $M_y=45.66$   $T_y=34.08$   $M_z=1.01$   $M_x=27.45$   
 Tensioni:  $\sigma_N=-8.20$   $\sigma_M=-159.01$   $\tau=59.40$   $\sigma_{max}=-167.21$   
 Tensioni:  $\sigma_N=-8.20$   $\sigma_M=3.08$   $\tau=79.53$   $\tau_{max}=79.53$   
 Tensioni:  $\sigma_N=-8.20$   $\sigma_M=-158.67$   $\tau=63.81$   $\sigma_{ID,max}=200.15$

Asta n. 4999 (-10426 -10506) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-93.84$   $M_y,Ed=72.60$   $M_z,Ed=3.56$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.09+0.01=0.10$   
 Verifica ZZ:  $0.00+0.07+0.01=0.08$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7972.34$   $T_z=117.89$   $M_y=30.24$   $T_y=-76.38$   $M_z=16.10$   $M_x=46.76$   
 Tensioni:  $\sigma_N=655.62$   $\sigma_M=157.93$   $\tau=101.20$   $\sigma_{max}=813.55$   
 Tensioni:  $\sigma_N=655.62$   $\sigma_M=49.39$   $\tau=122.98$   $\tau_{max}=122.98$   
 Tensioni:  $\sigma_N=655.62$   $\sigma_M=157.93$   $\tau=101.20$   $\sigma_{ID,max}=832.22$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=-71.54$   $T_z=119.16$   $M_y=31.73$   $T_y=-8.01$   $M_x=29.41$   
 $V,Ed=-8.01$   $Vc,Rd,Red=7469.65$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=119.16$   $Vc,Rd,Red=7469.65$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=59.46$   $T_z=92.03$   $M_y=29.68$   $T_y=-6.17$   $M_z=2.61$   $M_x=28.10$   
 Tensioni:  $\sigma_N=4.89$   $\sigma_M=110.03$   $\tau=60.82$   $\sigma_{max}=114.92$   
 Tensioni:  $\sigma_N=4.89$   $\sigma_M=8.01$   $\tau=77.82$   $\tau_{max}=77.82$   
 Tensioni:  $\sigma_N=4.89$   $\sigma_M=99.92$   $\tau=72.74$   $\sigma_{ID,max}=163.88$

Asta n. 4999 (-10506 -10541) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-115.31$   $M_y,Ed=36.86$   $M_z,Ed=2.60$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.05+0.00=0.05$   
 Verifica ZZ:  $0.00+0.04+0.00=0.04$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=8081.62$   $T_z=71.20$   $M_y=13.81$   $T_y=-57.26$   $M_z=10.61$   $M_x=45.02$   
 Tensioni:  $\sigma_N=664.61$   $\sigma_M=83.19$   $\tau=97.43$   $\sigma_{max}=747.79$   
 Tensioni:  $\sigma_N=664.61$   $\sigma_M=32.53$   $\tau=110.58$   $\tau_{max}=110.58$   
 Tensioni:  $\sigma_N=664.61$   $\sigma_M=83.19$   $\tau=97.43$   $\sigma_{ID,max}=766.60$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $Xl=0.06$

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Sollecitazioni:  $N=-107.46$   $T_z=145.80$   $M_y=19.11$   $T_y=-12.10$   $M_x=43.71$   
 $V,Ed=-12.10$   $V_c,Rd,Red=7281.44$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=145.80$   $V_c,Rd,Red=7281.44$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=75.44$   $T_z=70.83$   $M_y=16.59$   $T_y=-6.91$   $M_z=2.01$   $M_x=27.91$   
Tensioni:  $\sigma_N=6.20$   $\sigma_M=63.41$   $\tau=60.40$   $\sigma_{max}=69.61$   
Tensioni:  $\sigma_N=6.20$   $\sigma_M=6.18$   $\tau=73.48$   $\tau_{max}=73.48$   
Tensioni:  $\sigma_N=6.20$   $\sigma_M=57.76$   $\tau=69.57$   $\sigma_{ID,max}=136.42$

Asta n. 4999 (-10541 -10707) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 25 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-105.09$   $M_y,Ed=10.60$   $M_z,Ed=1.72$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.00+0.01+0.00=0.02$   
Verifica ZZ:  $0.00+0.01+0.00=0.02$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=8094.55$   $T_z=60.15$   $M_y=3.54$   $T_y=-37.55$   $M_z=6.63$   $M_x=41.75$   
Tensioni:  $\sigma_N=665.67$   $\sigma_M=34.67$   $\tau=90.35$   $\sigma_{max}=700.34$   
Tensioni:  $\sigma_N=665.67$   $\sigma_M=20.34$   $\tau=101.46$   $\tau_{max}=101.46$   
Tensioni:  $\sigma_N=665.67$   $\sigma_M=33.47$   $\tau=98.14$   $\sigma_{ID,max}=719.50$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.05$   
Sollecitazioni:  $N=-133.98$   $T_z=147.24$   $M_y=1.86$   $T_y=-11.41$   $M_x=50.25$   
 $V,Ed=-11.41$   $V_c,Rd,Red=7195.38$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=147.24$   $V_c,Rd,Red=7195.38$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-171.58$   $T_z=58.97$   $M_y=6.67$   $T_y=-2.81$   $M_x=27.32$   
Tensioni:  $\sigma_N=-14.11$   $\sigma_M=-22.74$   $\tau=59.11$   $\sigma_{max}=-36.85$   
Tensioni:  $\sigma_N=-14.11$   $\sigma_M=-0.00$   $\tau=70.01$   $\tau_{max}=70.01$   
Tensioni:  $\sigma_N=-14.11$   $\sigma_M=-0.00$   $\tau=70.01$   $\sigma_{ID,max}=122.07$

Asta n. 4999 (-10707 -10792) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-152.82$   $M_y,Ed=-22.74$   $M_z,Ed=0.92$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.03+0.00=0.03$   
Verifica ZZ:  $0.01+0.02+0.00=0.03$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=8066.20$   $T_z=31.26$   $M_y=-7.64$   $T_y=-26.40$   $M_z=1.81$   $M_x=37.56$   
Tensioni:  $\sigma_N=663.34$   $\sigma_M=32.18$   $\tau=81.29$   $\sigma_{max}=695.52$   
Tensioni:  $\sigma_N=663.34$   $\sigma_M=5.54$   $\tau=87.06$   $\tau_{max}=87.06$   
Tensioni:  $\sigma_N=663.34$   $\sigma_M=32.18$   $\tau=81.29$   $\sigma_{ID,max}=709.63$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-152.82$   $T_z=117.59$   $M_y=-11.30$   $T_y=-8.65$   $M_x=44.99$   
 $V,Ed=-8.65$   $V_c,Rd,Red=7264.62$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=117.59$   $V_c,Rd,Red=7264.62$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-208.26$   $T_z=51.44$   $M_y=-8.05$   $T_y=-5.10$   $M_x=26.16$

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Tensioni:  $\sigma_N=-17.13$   $\sigma_M=-27.43$   $\tau=56.61$   $\sigma_{max}=-44.56$   
Tensioni:  $\sigma_N=-17.13$   $\sigma_M=0.00$   $\tau=66.11$   $\tau_{max}=66.11$   
Tensioni:  $\sigma_N=-17.13$   $\sigma_M=-24.69$   $\tau=63.27$   $\sigma_{ID,max}=117.30$

Asta n. 4999 (-10792 -10844) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-177.52 My,Ed=-38.33 Mz,Ed=0.56  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.05+0.00=0.05  
Verifica ZZ: 0.01+0.04+0.00=0.04

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.09 - Classe 3

Sollecitazioni: N=8023.25 Tz=34.93 My=-12.33 Ty=-23.63 Mz=1.09 Mx=33.00  
Tensioni:  $\sigma_N=659.81$   $\sigma_M=45.72$   $\tau=71.42$   $\sigma_{max}=705.53$   
Tensioni:  $\sigma_N=659.81$   $\sigma_M=3.34$   $\tau=77.87$   $\tau_{max}=77.87$   
Tensioni:  $\sigma_N=659.81$   $\sigma_M=45.72$   $\tau=71.42$   $\sigma_{ID,max}=716.29$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-133.74 Tz=107.74 My=-27.11 Ty=-7.57 Mx=36.46  
V,Ed=-7.57 Vc,Rd,Red=7376.90 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=107.74 Vc,Rd,Red=7376.90 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-246.57 Tz=54.53 My=-15.54 Mx=24.91  
Tensioni:  $\sigma_N=-20.28$   $\sigma_M=-52.95$   $\tau=53.90$   $\sigma_{max}=-73.23$   
Tensioni:  $\sigma_N=-20.28$   $\sigma_M=0.00$   $\tau=63.97$   $\tau_{max}=63.97$   
Tensioni:  $\sigma_N=-20.28$   $\sigma_M=-47.66$   $\tau=60.96$   $\sigma_{ID,max}=125.56$

Asta n. 4999 (-10844 -10934) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-217.45 My,Ed=-54.00 Mz,Ed=-1.44  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.01+0.07+0.00=0.08  
Verifica ZZ: 0.01+0.05+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni: N=7979.71 Tz=20.81 My=-15.98 Ty=-39.16 Mz=-1.33 Mx=28.96  
Tensioni:  $\sigma_N=656.23$   $\sigma_M=58.97$   $\tau=62.67$   $\sigma_{max}=715.19$   
Tensioni:  $\sigma_N=656.23$   $\sigma_M=-49.00$   $\tau=69.91$   $\tau_{max}=69.91$   
Tensioni:  $\sigma_N=656.23$   $\sigma_M=58.97$   $\tau=62.67$   $\sigma_{ID,max}=723.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-167.92 Tz=114.14 My=-42.90 Ty=-17.21 Mx=30.72  
V,Ed=-17.21 Vc,Rd,Red=7452.44 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=114.14 Vc,Rd,Red=7452.44 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-282.55 Tz=65.00 My=-24.67 Ty=-7.44 Mz=-1.19 Mx=23.58  
Tensioni:  $\sigma_N=-23.24$   $\sigma_M=-88.11$   $\tau=51.03$   $\sigma_{max}=-111.35$   
Tensioni:  $\sigma_N=-23.24$   $\sigma_M=-3.64$   $\tau=63.04$   $\tau_{max}=63.04$   
Tensioni:  $\sigma_N=-23.24$   $\sigma_M=-79.70$   $\tau=59.45$   $\sigma_{ID,max}=145.60$

Asta n. 4999 (-10934 -10999) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni: N,Ed=-248.00 My,Ed=-74.02 Mz,Ed=-3.94

Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,  $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,  $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.01+0.09+0.01=0.11$

Verifica ZZ:  $0.01+0.07+0.01=0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=7941.54$   $T_z=44.22$   $M_y=-21.83$   $T_y=-93.32$   $M_z=-7.88$   $M_x=25.75$   
 Tensioni:  $\sigma_N=653.09$   $\sigma_M=101.23$   $\tau=55.72$   $\sigma_{max}=754.32$   
 Tensioni:  $\sigma_N=653.09$   $\sigma_M=-66.94$   $\tau=72.96$   $\tau_{max}=72.96$   
 Tensioni:  $\sigma_N=653.09$   $\sigma_M=101.23$   $\tau=55.72$   $\sigma_{ID,max}=760.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-274.37$   $T_z=129.47$   $M_y=-59.97$   $T_y=-30.57$   $M_x=26.24$   
 $V, Ed=-30.57$   $V_c, R_d, Red=7511.38$   $V, Ed/V_c, R_d, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=129.47$   $V_c, R_d, Red=7511.38$   $V, Ed/V_c, R_d, Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-309.22$   $T_z=79.78$   $M_y=-36.10$   $T_y=-14.55$   $M_z=-1.91$   $M_x=22.70$   
 Tensioni:  $\sigma_N=-25.43$   $\sigma_M=-129.52$   $\tau=49.13$   $\sigma_{max}=-154.95$   
 Tensioni:  $\sigma_N=-25.43$   $\sigma_M=-5.84$   $\tau=63.87$   $\tau_{max}=63.87$   
 Tensioni:  $\sigma_N=-25.43$   $\sigma_M=-128.87$   $\tau=51.02$   $\sigma_{ID,max}=177.81$

Asta n. 4999 (-10999 -11077) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-416.08$   $M_y, Ed=-97.48$   $M_z, Ed=-1.68$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.12+0.00=0.14$   
 Verifica ZZ:  $0.02+0.10+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=7968.19$   $T_z=28.43$   $M_y=-26.35$   $T_y=-221.56$   $M_z=-24.80$   $M_x=23.54$   
 Tensioni:  $\sigma_N=655.28$   $\sigma_M=174.30$   $\tau=50.93$   $\sigma_{max}=829.57$   
 Tensioni:  $\sigma_N=655.28$   $\sigma_M=-80.81$   $\tau=91.86$   $\tau_{max}=91.86$   
 Tensioni:  $\sigma_N=655.28$   $\sigma_M=174.30$   $\tau=50.93$   $\sigma_{ID,max}=834.25$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-430.24$   $T_z=161.12$   $M_y=-80.22$   $T_y=2.45$   $M_x=22.80$   
 $V, Ed=2.45$   $V_c, R_d, Red=7556.66$   $V, Ed/V_c, R_d, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=161.12$   $V_c, R_d, Red=7556.66$   $V, Ed/V_c, R_d, Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-321.35$   $T_z=100.31$   $M_y=-50.64$   $T_y=-36.72$   $M_z=3.65$   $M_x=22.03$   
 Tensioni:  $\sigma_N=-26.43$   $\sigma_M=-184.99$   $\tau=47.68$   $\sigma_{max}=-211.42$   
 Tensioni:  $\sigma_N=-26.43$   $\sigma_M=11.19$   $\tau=66.21$   $\tau_{max}=66.21$   
 Tensioni:  $\sigma_N=-26.43$   $\sigma_M=-183.75$   $\tau=52.43$   $\sigma_{ID,max}=228.96$

Asta n. 4999 (-11077 -11142) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-1038.85$   $M_y, Ed=77.92$   $M_z, Ed=-0.30$   
 Resistenze:  $N_c, R_d=27215.20$   $M_y, c, R_d=656.79$   $M_z, c, R_d=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.10+0.00=0.13$   
 Verifica ZZ:  $0.04+0.08+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7566.33$   $T_z=71.24$   $M_y=39.78$   $T_y=-162.20$   $M_z=19.58$   $M_x=43.89$   
 Tensioni:  $\sigma_N=622.23$   $\sigma_M=202.30$   $\tau=94.99$   $\sigma_{max}=824.53$   
 Tensioni:  $\sigma_N=622.23$   $\sigma_M=122.01$   $\tau=124.95$   $\tau_{max}=124.95$   
 Tensioni:  $\sigma_N=622.23$   $\sigma_M=195.62$   $\tau=115.99$   $\sigma_{ID,max}=842.17$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-1038.85$   $T_z=130.07$   $M_y=77.92$   $T_y=-3.51$   $M_x=43.14$   
 $V,Ed=-3.51$   $Vc,Rd,Red=7288.95$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=130.07$   $Vc,Rd,Red=7288.95$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-423.48$   $T_z=68.06$   $M_y=44.50$   $T_y=65.46$   $M_z=7.66$   $M_x=26.13$   
 Tensioni:  $\sigma_N=-34.83$   $\sigma_M=-177.74$   $\tau=56.55$   $\sigma_{max}=-212.56$   
 Tensioni:  $\sigma_N=-34.83$   $\sigma_M=23.48$   $\tau=69.12$   $\tau_{max}=69.12$   
 Tensioni:  $\sigma_N=-34.83$   $\sigma_M=-175.13$   $\tau=65.03$   $\sigma_{ID,max}=238.26$

Asta n. 4999 (-11142 -11208) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1147.25$   $My,Ed=58.99$   $Mz,Ed=1.73$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.04+0.07+0.00=0.12$   
 Verifica ZZ:  $0.04+0.06+0.00=0.10$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7434.41$   $T_z=51.41$   $M_y=29.91$   $T_y=-58.10$   $M_z=7.26$   $M_x=43.12$   
 Tensioni:  $\sigma_N=611.38$   $\sigma_M=126.69$   $\tau=93.32$   $\sigma_{max}=738.07$   
 Tensioni:  $\sigma_N=611.38$   $\sigma_M=91.74$   $\tau=104.05$   $\tau_{max}=104.05$   
 Tensioni:  $\sigma_N=611.38$   $\sigma_M=124.21$   $\tau=100.84$   $\sigma_{ID,max}=756.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-925.03$   $T_z=89.51$   $M_y=30.36$   $T_y=-8.70$   $M_x=42.24$   
 $V,Ed=-8.70$   $Vc,Rd,Red=7300.85$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=89.51$   $Vc,Rd,Red=7300.85$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-457.17$   $T_z=68.60$   $M_y=35.10$   $T_y=26.18$   $M_z=2.69$   $M_x=25.89$   
 Tensioni:  $\sigma_N=-37.60$   $\sigma_M=-128.77$   $\tau=56.03$   $\sigma_{max}=-166.37$   
 Tensioni:  $\sigma_N=-37.60$   $\sigma_M=8.23$   $\tau=68.70$   $\tau_{max}=68.70$   
 Tensioni:  $\sigma_N=-37.60$   $\sigma_M=-127.86$   $\tau=59.42$   $\sigma_{ID,max}=194.85$

Asta n. 4999 (-11208 -11274) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1247.46$   $My,Ed=38.70$   $Mz,Ed=2.47$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_y, \alpha_z, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.05+0.05+0.00=0.10$   
 Verifica ZZ:  $0.05+0.04+0.00=0.09$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7360.42$   $T_z=65.49$   $M_y=21.67$   $T_y=-28.65$   $M_z=3.49$   $M_x=41.14$   
 Tensioni:  $\sigma_N=605.30$   $\sigma_M=85.74$   $\tau=89.04$   $\sigma_{max}=691.04$   
 Tensioni:  $\sigma_N=605.30$   $\sigma_M=10.72$   $\tau=101.14$   $\tau_{max}=101.14$   
 Tensioni:  $\sigma_N=605.30$   $\sigma_M=84.55$   $\tau=92.75$   $\sigma_{ID,max}=708.31$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.09$   
 Sollecitazioni:  $N=-1284.67$   $T_z=110.56$   $M_y=25.62$   $T_y=-16.51$   $M_x=50.65$



V,Ed=-16.51 Vc,Rd,Red=7190.08 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=110.56 Vc,Rd,Red=7190.08 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-505.48 T<sub>z</sub>=62.02 M<sub>y</sub>=25.19 T<sub>y</sub>=-13.92 M<sub>z</sub>=1.25 M<sub>x</sub>=25.07  
Tensioni: σ<sub>N</sub>=-41.57 σ<sub>M</sub>=-90.11 τ=54.26 σ<sub>max</sub>=-131.68  
Tensioni: σ<sub>N</sub>=-41.57 σ<sub>M</sub>=3.85 τ=65.71 τ<sub>max</sub>=65.71  
Tensioni: σ<sub>N</sub>=-41.57 σ<sub>M</sub>=-90.11 τ=54.26 σ<sub>ID,max</sub>=161.78

Asta n. 4999 (-11274 -11346) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
Sollecitazioni: N,Ed=-1328.33 My,Ed=20.33 Mz,Ed=1.65  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463300.00 λ<sub>y</sub><sup>\*</sup>=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463300.00 λ<sub>z</sub><sup>\*</sup>=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.02+0.00=0.08  
Verifica ZZ: 0.05+0.02+0.00=0.07

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=7304.19 T<sub>z</sub>=52.82 M<sub>y</sub>=12.14 T<sub>y</sub>=-17.66 M<sub>z</sub>=2.04 M<sub>x</sub>=38.11  
Tensioni: σ<sub>N</sub>=600.67 σ<sub>M</sub>=48.33 τ=82.47 σ<sub>max</sub>=649.01  
Tensioni: σ<sub>N</sub>=600.67 σ<sub>M</sub>=6.25 τ=92.23 τ<sub>max</sub>=92.23  
Tensioni: σ<sub>N</sub>=600.67 σ<sub>M</sub>=47.64 τ=84.76 σ<sub>ID,max</sub>=664.73

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.06  
Sollecitazioni: N=-1328.32 T<sub>z</sub>=114.69 M<sub>y</sub>=13.17 T<sub>y</sub>=-11.84 M<sub>z</sub>=36.63  
V,Ed=-11.84 Vc,Rd,Red=7374.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=114.69 Vc,Rd,Red=7374.60 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-567.14 T<sub>z</sub>=58.89 M<sub>y</sub>=16.29 T<sub>y</sub>=-9.77 M<sub>z</sub>=23.56  
Tensioni: σ<sub>N</sub>=-46.64 σ<sub>M</sub>=-55.53 τ=50.98 σ<sub>max</sub>=-102.17  
Tensioni: σ<sub>N</sub>=-46.64 σ<sub>M</sub>=-0.00 τ=61.86 τ<sub>max</sub>=61.86  
Tensioni: σ<sub>N</sub>=-46.64 σ<sub>M</sub>=-49.97 τ=58.60 σ<sub>ID,max</sub>=140.13

Asta n. 4999 (-11346 -11412) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-1457.91 My,Ed=-7.30 Mz,Ed=0.75  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463300.00 λ<sub>y</sub><sup>\*</sup>=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463300.00 λ<sub>z</sub><sup>\*</sup>=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.05+0.01+0.00=0.06  
Verifica ZZ: 0.05+0.01+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=7257.20 T<sub>z</sub>=63.00 M<sub>y</sub>=4.02 T<sub>y</sub>=-11.66 M<sub>z</sub>=1.27 M<sub>x</sub>=33.69  
Tensioni: σ<sub>N</sub>=596.81 σ<sub>M</sub>=18.05 τ=72.92 σ<sub>max</sub>=614.86  
Tensioni: σ<sub>N</sub>=596.81 σ<sub>M</sub>=3.90 τ=84.55 τ<sub>max</sub>=84.55  
Tensioni: σ<sub>N</sub>=596.81 σ<sub>M</sub>=16.68 τ=81.08 σ<sub>ID,max</sub>=629.36

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-1392.12 T<sub>z</sub>=109.96 M<sub>y</sub>=3.22 T<sub>y</sub>=-8.20 M<sub>z</sub>=31.17  
V,Ed=-8.20 Vc,Rd,Red=7446.44 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=109.96 Vc,Rd,Red=7446.44 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-631.06 T<sub>z</sub>=55.70 M<sub>y</sub>=7.99 T<sub>y</sub>=-7.53 M<sub>z</sub>=21.57  
Tensioni: σ<sub>N</sub>=-51.90 σ<sub>M</sub>=-27.24 τ=46.68 σ<sub>max</sub>=-79.14

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Tensioni:  $\sigma_N=-51.90$   $\sigma_M=-0.00$   $\tau=56.97$   $\tau_{max}=56.97$   
Tensioni:  $\sigma_N=-51.90$   $\sigma_M=-24.52$   $\tau=53.90$   $\sigma_{ID,max}=120.64$

Asta n. 4999 (-11412 -11482) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-1531.27 My,Ed=-23.57 Mz,Ed=-0.49  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.03+0.00=0.09  
Verifica ZZ: 0.06+0.02+0.00=0.08

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-1448.54 Tz=113.69 My=-24.34 Ty=-6.41 Mx=24.15  
My,Ed=-24.34 My,c,Rd=776.35  
N,Ed=-1448.54 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.05  
MNy,c,Rd=776.35 My,Ed/MNy,c,Rd=0.03

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-1448.56 Tz=114.95 My=-13.16 Ty=-6.41 Mx=24.15  
V,Ed=-6.41 Vc,Rd,Red=7538.80 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=114.95 Vc,Rd,Red=7538.80 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-675.65 Tz=52.79 My=-10.75 Mx=18.90  
Tensioni:  $\sigma_N=-55.56$   $\sigma_M=-36.62$   $\tau=40.90$   $\sigma_{max}=-92.18$   
Tensioni:  $\sigma_N=-55.56$   $\sigma_M=0.00$   $\tau=50.65$   $\tau_{max}=50.65$   
Tensioni:  $\sigma_N=-55.56$   $\sigma_M=-32.96$   $\tau=47.74$   $\sigma_{ID,max}=121.13$

Asta n. 4999 (-11482 -11552) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-1604.86 My,Ed=-42.26 Mz,Ed=-0.96  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.06+0.05+0.00=0.11  
Verifica ZZ: 0.06+0.04+0.00=0.10

- Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-1294.16 Tz=96.97 My=-32.51 Ty=-9.61 Mz=-1.04 Mx=21.19  
Tensioni:  $\sigma_N=-106.43$   $\sigma_M=-114.33$   $\tau=45.85$   $\sigma_{max}=-220.76$   
Tensioni:  $\sigma_N=-106.43$   $\sigma_M=-3.18$   $\tau=63.76$   $\tau_{max}=63.76$   
Tensioni:  $\sigma_N=-106.43$   $\sigma_M=-113.98$   $\tau=47.09$   $\sigma_{ID,max}=235.02$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-1516.82 Tz=132.59 My=-28.45 Ty=-9.31 Mx=25.02  
V,Ed=-9.31 Vc,Rd,Red=7527.37 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=132.59 Vc,Rd,Red=7527.37 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-757.30 Tz=66.59 My=-17.09 Ty=-8.40 Mz=-1.32 Mx=16.82  
Tensioni:  $\sigma_N=-62.28$   $\sigma_M=-62.75$   $\tau=36.41$   $\sigma_{max}=-125.03$   
Tensioni:  $\sigma_N=-62.28$   $\sigma_M=-4.05$   $\tau=48.71$   $\tau_{max}=48.71$   
Tensioni:  $\sigma_N=-62.28$   $\sigma_M=-56.93$   $\tau=45.03$   $\sigma_{ID,max}=142.46$

Asta n. 4999 (-11552 -11622) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-1688.64 My,Ed=-64.76 Mz,Ed=-2.40  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.06+0.08+0.00=0.14

Verifica ZZ: 0.06+0.06+0.00=0.13

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=7126.82 T<sub>z</sub>=87.94 M<sub>y</sub>=-35.43 T<sub>y</sub>=-25.11 M<sub>z</sub>=-1.70 M<sub>x</sub>=18.15  
 Tensioni:  $\sigma_N=586.09$   $\sigma_M=126.53$   $\tau=39.27$   $\sigma_{max}=712.62$   
 Tensioni:  $\sigma_N=586.09$   $\sigma_M=-5.21$   $\tau=55.52$   $\tau_{max}=55.52$   
 Tensioni:  $\sigma_N=586.09$   $\sigma_M=126.53$   $\tau=39.27$   $\sigma_{ID,max}=715.85$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-1591.11 T<sub>z</sub>=160.31 M<sub>y</sub>=-48.67 T<sub>y</sub>=-20.25 M<sub>z</sub>=17.74  
 V,Ed=-20.25 Vc,Rd,Red=7623.23 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=160.31 Vc,Rd,Red=7623.23 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-816.64 T<sub>z</sub>=81.05 M<sub>y</sub>=-28.10 T<sub>y</sub>=-13.28 M<sub>z</sub>=-2.02 M<sub>x</sub>=14.47  
 Tensioni:  $\sigma_N=-67.16$   $\sigma_M=-102.66$   $\tau=31.32$   $\sigma_{max}=-169.81$   
 Tensioni:  $\sigma_N=-67.16$   $\sigma_M=-6.21$   $\tau=46.29$   $\tau_{max}=46.29$   
 Tensioni:  $\sigma_N=-67.16$   $\sigma_M=-101.97$   $\tau=33.04$   $\sigma_{ID,max}=178.55$

Asta n. 4999 (-11622 -11694) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1821.84 M<sub>y</sub>,Ed=-93.37 M<sub>z</sub>,Ed=-5.74

Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.11+0.01=0.19

Verifica ZZ: 0.07+0.09+0.01=0.17

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=7081.91 T<sub>z</sub>=125.88 M<sub>y</sub>=-53.28 T<sub>y</sub>=-67.90 M<sub>z</sub>=-6.75 M<sub>x</sub>=14.27  
 Tensioni:  $\sigma_N=582.39$   $\sigma_M=204.58$   $\tau=30.89$   $\sigma_{max}=786.98$   
 Tensioni:  $\sigma_N=582.39$   $\sigma_M=-20.71$   $\tau=54.14$   $\tau_{max}=54.14$   
 Tensioni:  $\sigma_N=582.39$   $\sigma_M=204.58$   $\tau=30.89$   $\sigma_{ID,max}=788.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU Xl=0.00  
 Sollecitazioni: N=3367.87 T<sub>z</sub>=179.41 M<sub>y</sub>=-62.20 T<sub>y</sub>=-61.22 M<sub>z</sub>=14.54  
 V,Ed=-61.22 Vc,Rd,Red=7665.25 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=179.41 Vc,Rd,Red=7665.25 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-868.98 T<sub>z</sub>=100.72 M<sub>y</sub>=-42.40 T<sub>y</sub>=-29.61 M<sub>z</sub>=-4.02 M<sub>x</sub>=12.75  
 Tensioni:  $\sigma_N=-71.46$   $\sigma_M=-158.20$   $\tau=27.58$   $\sigma_{max}=-229.66$   
 Tensioni:  $\sigma_N=-71.46$   $\sigma_M=-12.33$   $\tau=46.19$   $\tau_{max}=46.19$   
 Tensioni:  $\sigma_N=-71.46$   $\sigma_M=-156.83$   $\tau=31.42$   $\sigma_{ID,max}=234.69$

Asta n. 4999 (-11694 -11760) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2001.56 M<sub>y</sub>,Ed=-127.39 M<sub>z</sub>,Ed=-6.27

Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.07+0.16+0.01=0.24

Verifica ZZ: 0.07+0.12+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3

Sollecitazioni:  $N=7078.61$   $T_z=128.65$   $M_y=-71.99$   $T_y=-130.70$   $M_z=-16.20$   $M_x=10.74$

Tensioni:  $\sigma_N=582.12$   $\sigma_M=300.53$   $\tau=23.24$   $\sigma_{max}=882.65$

Tensioni:  $\sigma_N=582.12$   $\sigma_M=-220.80$   $\tau=47.41$   $\tau_{max}=47.41$

Tensioni:  $\sigma_N=582.12$   $\sigma_M=300.53$   $\tau=23.24$   $\sigma_{ID,max}=883.57$

- Verifica a taglio dir. Y [4.2.16] - CC 103 SLU  $X_l=0.00$

Sollecitazioni:  $N=-678.55$   $T_z=106.34$   $M_y=-45.58$   $T_y=15.18$

$V,Ed=15.18$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]

$V,Ed=106.34$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-910.24$   $T_z=120.34$   $M_y=-59.62$   $T_y=-70.63$   $M_z=-9.35$   $M_x=11.21$

Tensioni:  $\sigma_N=-74.86$   $\sigma_M=-235.01$   $\tau=24.25$   $\sigma_{max}=-309.86$

Tensioni:  $\sigma_N=-74.86$   $\sigma_M=-28.67$   $\tau=46.49$   $\tau_{max}=46.49$

Tensioni:  $\sigma_N=-74.86$   $\sigma_M=-235.01$   $\tau=24.25$   $\sigma_{ID,max}=312.70$

Asta n. 4999 (-11760 -11826) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-2414.31$   $M_y,Ed=40.08$   $M_z,Ed=8.59$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.09+0.05+0.01=0.15$

Verifica ZZ:  $0.09+0.04+0.01=0.14$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=6724.85$   $T_z=20.12$   $M_y=18.55$   $T_y=-122.46$   $M_z=14.40$   $M_x=27.98$

Tensioni:  $\sigma_N=553.03$   $\sigma_M=112.28$   $\tau=60.55$   $\sigma_{max}=665.31$

Tensioni:  $\sigma_N=553.03$   $\sigma_M=56.88$   $\tau=83.16$   $\tau_{max}=83.16$

Tensioni:  $\sigma_N=553.03$   $\sigma_M=107.37$   $\tau=76.40$   $\sigma_{ID,max}=673.53$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.10$

Sollecitazioni:  $N=-1990.14$   $T_z=17.07$   $M_y=23.11$   $T_y=-86.14$   $M_x=29.18$

$V,Ed=-86.14$   $V_c,Rd,Red=7472.60$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=17.07$   $V_c,Rd,Red=7472.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-1010.17$   $T_z=32.81$   $M_y=22.26$   $T_y=-85.56$   $M_z=9.46$   $M_x=17.75$

Tensioni:  $\sigma_N=-83.07$   $\sigma_M=-108.10$   $\tau=38.41$   $\sigma_{max}=-191.17$

Tensioni:  $\sigma_N=-83.07$   $\sigma_M=68.28$   $\tau=54.22$   $\tau_{max}=54.22$

Tensioni:  $\sigma_N=-83.07$   $\sigma_M=-108.10$   $\tau=38.41$   $\sigma_{ID,max}=202.41$

Asta n. 4999 (-11826 -11898) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-2509.53$   $M_y,Ed=32.45$   $M_z,Ed=3.44$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.09+0.04+0.00=0.14$

Verifica ZZ:  $0.09+0.03+0.00=0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=6596.19$   $T_z=22.88$   $M_y=15.38$   $T_y=-36.52$   $M_z=4.78$   $M_x=26.99$

Tensioni:  $\sigma_N=542.45$   $\sigma_M=68.70$   $\tau=58.40$   $\sigma_{max}=611.15$

Tensioni:  $\sigma_N=542.45$   $\sigma_M=47.17$   $\tau=65.15$   $\tau_{max}=65.15$

Tensioni:  $\sigma_N=542.45$   $\sigma_M=68.70$   $\tau=58.40$   $\sigma_{ID,max}=619.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$

Sollecitazioni:  $N=-2599.27$   $T_z=58.09$   $M_y=23.24$   $T_y=-24.51$   $M_x=35.70$

$V,Ed=-24.51$   $V_c,Rd,Red=7386.85$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=58.09 Vc,Rd,Red=7386.85 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1026.15 T<sub>z</sub>=41.12 M<sub>y</sub>=17.61 T<sub>y</sub>=-28.30 M<sub>z</sub>=2.70 M<sub>x</sub>=17.50  
Tensioni:  $\sigma_N$ =-84.39  $\sigma_M$ =-69.23  $\tau$ =37.88  $\sigma_{max}$ =-153.61  
Tensioni:  $\sigma_N$ =-84.39  $\sigma_M$ =8.30  $\tau$ =45.48  $\tau_{max}$ =45.48  
Tensioni:  $\sigma_N$ =-84.39  $\sigma_M$ =-69.23  $\tau$ =37.88  $\sigma_{ID,max}$ =167.04

Asta n. 4999 (-11898 -11940) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2673.50 M<sub>y</sub>,Ed=19.59 M<sub>z</sub>,Ed=2.09  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.02+0.00=0.13  
Verifica ZZ: 0.10+0.02+0.00=0.12

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=6533.19 T<sub>z</sub>=39.99 M<sub>y</sub>=11.38 T<sub>y</sub>=-20.52 M<sub>z</sub>=2.49 M<sub>x</sub>=24.74  
Tensioni:  $\sigma_N$ =537.27  $\sigma_M$ =47.24  $\tau$ =53.53  $\sigma_{max}$ =584.51  
Tensioni:  $\sigma_N$ =537.27  $\sigma_M$ =7.63  $\tau$ =60.92  $\tau_{max}$ =60.92  
Tensioni:  $\sigma_N$ =537.27  $\sigma_M$ =47.24  $\tau$ =53.53  $\sigma_{ID,max}$ =591.82

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.09  
Sollecitazioni: N=-2583.19 T<sub>z</sub>=75.07 M<sub>y</sub>=14.12 T<sub>y</sub>=-16.04 M<sub>z</sub>=25.41  
V,Ed=-16.04 Vc,Rd,Red=7522.22 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=75.07 Vc,Rd,Red=7522.22 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1061.41 T<sub>z</sub>=37.91 M<sub>y</sub>=12.21 T<sub>y</sub>=-14.15 M<sub>z</sub>=1.00 M<sub>x</sub>=16.37  
Tensioni:  $\sigma_N$ =-87.29  $\sigma_M$ =-45.02  $\tau$ =35.43  $\sigma_{max}$ =-132.31  
Tensioni:  $\sigma_N$ =-87.29  $\sigma_M$ =3.07  $\tau$ =42.43  $\tau_{max}$ =42.43  
Tensioni:  $\sigma_N$ =-87.29  $\sigma_M$ =-45.02  $\tau$ =35.43  $\sigma_{ID,max}$ =145.85

Asta n. 4999 (-11940 -12053) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2723.75 M<sub>y</sub>,Ed=9.51 M<sub>z</sub>,Ed=1.05  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463300.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463300.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.01+0.00=0.11  
Verifica ZZ: 0.10+0.01+0.00=0.11

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=6498.83 T<sub>z</sub>=36.83 M<sub>y</sub>=5.42 T<sub>y</sub>=-11.29 M<sub>z</sub>=1.29 M<sub>x</sub>=21.57  
Tensioni:  $\sigma_N$ =534.44  $\sigma_M$ =22.88  $\tau$ =46.68  $\sigma_{max}$ =557.33  
Tensioni:  $\sigma_N$ =534.44  $\sigma_M$ =3.96  $\tau$ =53.49  $\tau_{max}$ =53.49  
Tensioni:  $\sigma_N$ =534.44  $\sigma_M$ =22.88  $\tau$ =46.68  $\sigma_{ID,max}$ =563.16

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.04  
Sollecitazioni: N=-2622.12 T<sub>z</sub>=79.52 M<sub>y</sub>=5.61 T<sub>y</sub>=-9.59 M<sub>z</sub>=21.08  
V,Ed=-9.59 Vc,Rd,Red=7579.27 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=79.52 Vc,Rd,Red=7579.27 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1098.30 T<sub>z</sub>=34.69 M<sub>y</sub>=8.10 T<sub>y</sub>=-6.37 M<sub>z</sub>=14.96  
Tensioni:  $\sigma_N$ =-90.32  $\sigma_M$ =-27.61  $\tau$ =32.37  $\sigma_{max}$ =-117.93  
Tensioni:  $\sigma_N$ =-90.32  $\sigma_M$ =-0.00  $\tau$ =38.78  $\tau_{max}$ =38.78

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Tensioni:  $\sigma_N=-90.32$   $\sigma_M=-24.85$   $\tau=36.87$   $\sigma_{ID,max}=131.69$

Asta n. 4999 (-12053 -12163) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-2758.52$   $M_y, Ed=-9.69$   $M_z, Ed=0.45$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.01+0.00=0.11$   
 Verifica ZZ:  $0.10+0.01+0.00=0.11$
  - Verifica a trazione [4.2.5] - CC 45 SLU  $X_l=0.00$  - Classe 1  
 Sollecitazioni:  $N=6476.41$   $T_z=55.35$   $T_y=-6.73$   $M_x=16.97$   
 $N, Ed=6476.41$   $N_{pl}, Rd=27215.20$   $N_u, Rd=31518.70$   $N, Ed/N_t, Rd=0.24$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2641.83$   $T_z=87.56$   $M_y=-3.00$   $T_y=-5.65$   $M_x=14.99$   
 $V, Ed=-5.65$   $V_c, Rd, Red=7659.42$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=87.56$   $V_c, Rd, Red=7659.42$   $V, Ed/V_c, Rd, Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1152.97$   $T_z=38.16$   $M_y=-4.80$   $T_y=2.75$   $M_z=-1.04$   $M_x=12.73$   
 Tensioni:  $\sigma_N=-94.82$   $\sigma_M=-19.91$   $\tau=27.54$   $\sigma_{max}=-114.72$   
 Tensioni:  $\sigma_N=-94.82$   $\sigma_M=-3.18$   $\tau=34.59$   $\tau_{max}=34.59$   
 Tensioni:  $\sigma_N=-94.82$   $\sigma_M=-18.27$   $\tau=32.48$   $\sigma_{ID,max}=126.31$

Asta n. 4999 (-12163 -12242) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-2785.07$   $M_y, Ed=-23.57$   $M_z, Ed=-0.43$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.03+0.00=0.13$   
 Verifica ZZ:  $0.10+0.02+0.00=0.13$
  - Verifica a pressoflessione retta - CC 54 SLU  $X_l=0.10$  - Classe 1  
 Sollecitazioni:  $N=-2652.18$   $T_z=95.72$   $M_y=-25.59$   $T_y=-4.22$   $M_x=7.99$   
 $M_y, Ed=-25.59$   $M_y, c, Rd=776.35$   
 $N, Ed=-2652.18$   $N_c, Rd=27215.20$   $n=N, Ed/N_c, Rd=0.10$   
 $M_{Ny}, c, Rd=776.35$   $M_y, Ed/M_{Ny}, c, Rd=0.03$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2785.07$   $T_z=95.93$   $M_y=-14.25$   $T_y=-6.19$   $M_x=14.78$   
 $V, Ed=-6.19$   $V_c, Rd, Red=7662.12$   $V, Ed/V_c, Rd, Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=95.93$   $V_c, Rd, Red=7662.12$   $V, Ed/V_c, Rd, Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1198.66$   $T_z=43.80$   $M_y=-10.22$   $T_y=-6.50$   $M_z=-1.25$   $M_x=10.51$   
 Tensioni:  $\sigma_N=-98.57$   $\sigma_M=-39.07$   $\tau=22.73$   $\sigma_{max}=-137.64$   
 Tensioni:  $\sigma_N=-98.57$   $\sigma_M=-3.83$   $\tau=30.83$   $\tau_{max}=30.83$   
 Tensioni:  $\sigma_N=-98.57$   $\sigma_M=-39.07$   $\tau=22.73$   $\sigma_{ID,max}=143.16$

Asta n. 4999 (-12242 -12314) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-2810.57$   $M_y, Ed=-41.83$   $M_z, Ed=-0.74$   
 Resistenze:  $N_c, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

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Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.05+0.00=0.16  
Verifica ZZ: 0.10+0.04+0.00=0.15

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.10 - Classe 1  
Sollecitazioni: N=-2662.04 T<sub>z</sub>=124.50 M<sub>y</sub>=-43.33 T<sub>y</sub>=-5.56  
M<sub>y</sub>,Ed=-43.33 M<sub>y</sub>,c,Rd=776.35  
N,Ed=-2662.04 N<sub>c</sub>,Rd=27215.20 n=N,Ed/N<sub>c</sub>,Rd=0.10  
MN<sub>y</sub>,c,Rd=776.35 M<sub>y</sub>,Ed/MN<sub>y</sub>,c,Rd=0.06
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
Sollecitazioni: N=-2810.57 T<sub>z</sub>=130.27 M<sub>y</sub>=-29.16 T<sub>y</sub>=-7.71 M<sub>x</sub>=6.92  
V,Ed=-7.71 V<sub>c</sub>,Rd,Red=7765.49 V,Ed/V<sub>c</sub>,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=130.27 V<sub>c</sub>,Rd,Red=7765.49 V,Ed/V<sub>c</sub>,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1243.23 T<sub>z</sub>=57.35 M<sub>y</sub>=-17.27 T<sub>y</sub>=-7.84 M<sub>z</sub>=-1.57 M<sub>x</sub>=8.08  
Tensioni: σ<sub>N</sub>=-102.24 σ<sub>M</sub>=-64.22 τ=17.50 σ<sub>max</sub>=-166.46  
Tensioni: σ<sub>N</sub>=-102.24 σ<sub>M</sub>=-4.82 τ=28.09 τ<sub>max</sub>=28.09  
Tensioni: σ<sub>N</sub>=-102.24 σ<sub>M</sub>=-64.22 τ=17.50 σ<sub>ID,max</sub>=169.19

Asta n. 4999 (-12314 -12382) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2845.49 M<sub>y</sub>,Ed=-63.66 M<sub>z</sub>,Ed=-1.98  
Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463300.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463300.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.08+0.00=0.19  
Verifica ZZ: 0.10+0.06+0.00=0.17
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=6423.28 T<sub>z</sub>=91.90 M<sub>y</sub>=-40.18 T<sub>y</sub>=-17.46 M<sub>z</sub>=-1.17 M<sub>x</sub>=1.75  
Tensioni: σ<sub>N</sub>=528.23 σ<sub>M</sub>=140.94 τ=3.79 σ<sub>max</sub>=669.16  
Tensioni: σ<sub>N</sub>=528.23 σ<sub>M</sub>=-3.60 τ=20.77 τ<sub>max</sub>=20.77  
Tensioni: σ<sub>N</sub>=528.23 σ<sub>M</sub>=140.94 τ=3.79 σ<sub>ID,max</sub>=669.20
  - Verifica a taglio dir. Y [4.2.16] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-2699.40 T<sub>z</sub>=152.51 M<sub>y</sub>=-48.06 T<sub>y</sub>=-16.38  
V,Ed=-16.38 V<sub>c</sub>,Rd=7856.59 V,Ed/V<sub>c</sub>,Rd=0.00
  - Verifica a taglio dir. Z [4.2.16]  
V,Ed=152.51 V<sub>c</sub>,Rd=7856.59 V,Ed/V<sub>c</sub>,Rd=0.02
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1287.21 T<sub>z</sub>=69.85 M<sub>y</sub>=-26.45 T<sub>y</sub>=-13.99 M<sub>z</sub>=-2.37 M<sub>x</sub>=6.02  
Tensioni: σ<sub>N</sub>=-105.86 σ<sub>M</sub>=-98.19 τ=13.02 σ<sub>max</sub>=-204.04  
Tensioni: σ<sub>N</sub>=-105.86 σ<sub>M</sub>=-7.26 τ=25.92 τ<sub>max</sub>=25.92  
Tensioni: σ<sub>N</sub>=-105.86 σ<sub>M</sub>=-98.19 τ=13.02 σ<sub>ID,max</sub>=205.29
- Asta n. 4999 (-12382 -12448) Tubo 80x80x4 mm - S235 Crit. 2
- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2930.83 M<sub>y</sub>,Ed=-93.97 M<sub>z</sub>,Ed=-5.28  
Resistenze: N<sub>c</sub>,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.11+0.12+0.01=0.23  
Verifica ZZ: 0.11+0.09+0.01=0.21
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=6388.67 T<sub>z</sub>=149.44 M<sub>y</sub>=-61.08 T<sub>y</sub>=-48.51 M<sub>z</sub>=-4.96 M<sub>x</sub>=-2.71  
Tensioni: σ<sub>N</sub>=525.38 σ<sub>M</sub>=225.06 τ=5.87 σ<sub>max</sub>=750.45  
Tensioni: σ<sub>N</sub>=525.38 σ<sub>M</sub>=15.22 τ=33.47 τ<sub>max</sub>=33.47

Tensioni:  $\sigma_N=525.38$   $\sigma_M=225.06$   $\tau=5.87$   $\sigma_{ID,max}=750.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-2778.95$   $T_z=214.58$   $M_y=-72.30$   $T_y=-36.76$   $M_x=-6.06$   
 $V,Ed=-36.76$   $V_c,Rd,Red=7776.82$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=214.58$   $V_c,Rd,Red=7776.82$   $V,Ed/V_c,Rd,Red=0.03$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1333.84$   $T_z=95.59$   $M_y=-39.39$   $T_y=-34.38$   $M_z=-4.87$   $M_x=-6.14$   
 Tensioni:  $\sigma_N=-109.69$   $\sigma_M=-150.81$   $\tau=13.29$   $\sigma_{max}=-260.50$   
 Tensioni:  $\sigma_N=-109.69$   $\sigma_M=14.93$   $\tau=30.95$   $\tau_{max}=30.95$   
 Tensioni:  $\sigma_N=-109.69$   $\sigma_M=-150.81$   $\tau=13.29$   $\sigma_{ID,max}=261.52$

Asta n. 4999 (-12448 -12534) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3072.67$   $M_y,Ed=-128.46$   $M_z,Ed=-7.07$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.11+0.16+0.01=0.28$   
 Verifica ZZ:  $0.11+0.13+0.01=0.25$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=6392.90$   $T_z=139.15$   $M_y=-81.80$   $T_y=-90.69$   $M_z=-11.51$   $M_x=-5.39$   
 Tensioni:  $\sigma_N=525.73$   $\sigma_M=317.95$   $\tau=11.66$   $\sigma_{max}=843.68$   
 Tensioni:  $\sigma_N=525.73$   $\sigma_M=35.29$   $\tau=37.38$   $\tau_{max}=37.38$   
 Tensioni:  $\sigma_N=525.73$   $\sigma_M=317.95$   $\tau=11.66$   $\sigma_{ID,max}=843.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-1424.08$   $T_z=125.45$   $M_y=-55.23$   $T_y=-13.22$   $M_x=-12.14$   
 $V,Ed=-13.22$   $V_c,Rd,Red=7696.86$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=125.45$   $V_c,Rd,Red=7696.86$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1383.63$   $T_z=107.55$   $M_y=-54.79$   $T_y=-79.07$   $M_z=-11.10$   $M_x=-7.42$   
 Tensioni:  $\sigma_N=-113.78$   $\sigma_M=-224.51$   $\tau=16.06$   $\sigma_{max}=-338.29$   
 Tensioni:  $\sigma_N=-113.78$   $\sigma_M=34.03$   $\tau=35.94$   $\tau_{max}=35.94$   
 Tensioni:  $\sigma_N=-113.78$   $\sigma_M=-224.51$   $\tau=16.06$   $\sigma_{ID,max}=339.44$

Asta n. 4999 (-12534 -12612) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-3274.35$   $M_y,Ed=25.57$   $M_z,Ed=5.17$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.12+0.03+0.01=0.16$   
 Verifica ZZ:  $0.12+0.03+0.01=0.15$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=6101.69$   $T_z=13.45$   $M_y=8.11$   $T_y=-56.67$   $M_z=7.29$   $M_x=19.56$   
 Tensioni:  $\sigma_N=501.78$   $\sigma_M=52.47$   $\tau=42.34$   $\sigma_{max}=554.25$   
 Tensioni:  $\sigma_N=501.78$   $\sigma_M=24.87$   $\tau=52.81$   $\tau_{max}=52.81$   
 Tensioni:  $\sigma_N=501.78$   $\sigma_M=52.47$   $\tau=42.34$   $\sigma_{ID,max}=559.08$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-2747.88$   $M_y=11.57$   $T_y=-65.54$   $M_x=22.31$   
 $V,Ed=-65.54$   $V_c,Rd,Red=7563.05$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1474.58$   $T_z=-35.31$   $M_y=19.11$   $T_y=-87.11$   $M_z=9.43$   $M_x=13.61$



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Tensioni:  $\sigma_N=-121.27$   $\sigma_M=-97.26$   $\tau=29.46$   $\sigma_{max}=-218.53$   
Tensioni:  $\sigma_N=-121.27$   $\sigma_M=58.61$   $\tau=45.56$   $\tau_{max}=45.56$   
Tensioni:  $\sigma_N=-121.27$   $\sigma_M=-97.26$   $\tau=29.46$   $\sigma_{ID,max}=224.41$

Asta n. 4999 (-12612 -12686) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-3486.71 My,Ed=15.98 Mz,Ed=2.59  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.02+0.00=0.15  
Verifica ZZ: 0.13+0.02+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=5977.83 Tz=-4.00 My=6.50 Ty=-17.96 Mz=3.08 Mx=18.98  
Tensioni:  $\sigma_N=491.60$   $\sigma_M=32.62$   $\tau=41.07$   $\sigma_{max}=524.22$   
Tensioni:  $\sigma_N=491.60$   $\sigma_M=19.92$   $\tau=44.39$   $\tau_{max}=44.39$   
Tensioni:  $\sigma_N=491.60$   $\sigma_M=32.62$   $\tau=41.07$   $\sigma_{ID,max}=529.02$

- Verifica a taglio dir. Y [4.2.16] - CC 88 SLU Xl=0.09

Sollecitazioni: N=-2000.48 Tz=8.82 My=5.70 Ty=-27.42  
V,Ed=-27.42 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]

V,Ed=8.82 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-1479.80 Tz=34.89 My=14.30 Ty=-28.78 Mz=2.39 Mx=13.48  
Tensioni:  $\sigma_N=-121.69$   $\sigma_M=-56.88$   $\tau=29.17$   $\sigma_{max}=-178.57$   
Tensioni:  $\sigma_N=-121.69$   $\sigma_M=7.33$   $\tau=35.62$   $\tau_{max}=35.62$   
Tensioni:  $\sigma_N=-121.69$   $\sigma_M=-56.88$   $\tau=29.17$   $\sigma_{ID,max}=185.58$

Asta n. 4999 (-12686 -12757) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-3529.36 My,Ed=12.09 Mz,Ed=1.78  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.01+0.00=0.15  
Verifica ZZ: 0.13+0.01+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=5926.51 Tz=32.84 My=6.01 Ty=-13.17 Mz=2.00 Mx=16.14  
Tensioni:  $\sigma_N=487.38$   $\sigma_M=27.29$   $\tau=34.92$   $\sigma_{max}=514.66$   
Tensioni:  $\sigma_N=487.38$   $\sigma_M=6.14$   $\tau=40.99$   $\tau_{max}=40.99$   
Tensioni:  $\sigma_N=487.38$   $\sigma_M=27.29$   $\tau=34.92$   $\sigma_{ID,max}=518.21$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.06

Sollecitazioni: N=-3529.35 Tz=48.75 My=9.04 Ty=-14.62 Mx=23.74  
V,Ed=-14.62 Vc,Rd,Red=7544.22 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=48.75 Vc,Rd,Red=7544.22 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-1504.01 Tz=35.54 My=9.85 Ty=-13.86 Mz=1.13 Mx=12.18  
Tensioni:  $\sigma_N=-123.69$   $\sigma_M=-37.39$   $\tau=26.35$   $\sigma_{max}=-161.08$   
Tensioni:  $\sigma_N=-123.69$   $\sigma_M=3.46$   $\tau=32.92$   $\tau_{max}=32.92$   
Tensioni:  $\sigma_N=-123.69$   $\sigma_M=-37.39$   $\tau=26.35$   $\sigma_{ID,max}=167.42$

Asta n. 4999 (-12757 -12827) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-3555.98 My,Ed=4.59 Mz,Ed=0.90

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.13+0.01+0.00=0.14

Verifica ZZ: 0.13+0.00+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=5899.01 T<sub>z</sub>=22.01 M<sub>y</sub>=1.34 T<sub>y</sub>=-8.42 M<sub>z</sub>=1.18 M<sub>x</sub>=13.23

Tensioni:  $\sigma_N=485.12$   $\sigma_M=8.61$   $\tau=28.64$   $\sigma_{max}=493.72$

Tensioni:  $\sigma_N=485.12$   $\sigma_M=3.63$   $\tau=32.70$   $\tau_{max}=32.70$

Tensioni:  $\sigma_N=485.12$   $\sigma_M=8.15$   $\tau=31.49$   $\sigma_{ID,max}=496.27$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.06

Sollecitazioni: N=-3387.62 T<sub>z</sub>=57.49 T<sub>y</sub>=-8.14 M<sub>x</sub>=14.08

V,Ed=-8.14 Vc,Rd,Red=7671.35 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=57.49 Vc,Rd,Red=7671.35 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-1535.58 T<sub>z</sub>=32.61 M<sub>y</sub>=5.86 T<sub>y</sub>=-8.77 M<sub>z</sub>=1.25 M<sub>x</sub>=10.88

Tensioni:  $\sigma_N=-126.28$   $\sigma_M=-24.23$   $\tau=23.54$   $\sigma_{max}=-150.51$

Tensioni:  $\sigma_N=-126.28$   $\sigma_M=3.83$   $\tau=29.56$   $\tau_{max}=29.56$

Tensioni:  $\sigma_N=-126.28$   $\sigma_M=-24.23$   $\tau=23.54$   $\sigma_{ID,max}=155.93$

Asta n. 4999 (-12827 -12897) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-3569.23 My,Ed=-10.48 Mz,Ed=0.34

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.13+0.01+0.00=0.14

Verifica ZZ: 0.13+0.01+0.00=0.14

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.02 - Classe 3

Sollecitazioni: N=-2557.10 T<sub>z</sub>=62.95 M<sub>y</sub>=-6.86 T<sub>y</sub>=-3.16 M<sub>z</sub>=1.02 M<sub>x</sub>=1.80

Tensioni:  $\sigma_N=-210.29$   $\sigma_M=-26.85$   $\tau=3.91$   $\sigma_{max}=-237.13$

Tensioni:  $\sigma_N=-210.29$   $\sigma_M=3.13$   $\tau=15.53$   $\tau_{max}=15.53$

Tensioni:  $\sigma_N=-210.29$   $\sigma_M=-26.85$   $\tau=3.91$   $\sigma_{ID,max}=237.23$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00

Sollecitazioni: N=-3390.25 T<sub>z</sub>=78.50 M<sub>y</sub>=-5.08 T<sub>y</sub>=-4.85 M<sub>x</sub>=7.76

V,Ed=-4.85 Vc,Rd,Red=7754.47 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=78.50 Vc,Rd,Red=7754.47 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3

Sollecitazioni: N=-1566.86 T<sub>z</sub>=34.82 M<sub>y</sub>=-5.18 T<sub>y</sub>=-6.32 M<sub>z</sub>=1.51 M<sub>x</sub>=8.93

Tensioni:  $\sigma_N=-128.85$   $\sigma_M=-22.77$   $\tau=19.32$   $\sigma_{max}=-151.63$

Tensioni:  $\sigma_N=-128.85$   $\sigma_M=4.63$   $\tau=25.75$   $\tau_{max}=25.75$

Tensioni:  $\sigma_N=-128.85$   $\sigma_M=-22.77$   $\tau=19.32$   $\sigma_{ID,max}=155.28$

Asta n. 4999 (-12897 -12964) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-3575.47 My,Ed=-22.48 Mz,Ed=-0.41

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.13+0.03+0.00=0.16

Verifica ZZ: 0.13+0.02+0.00=0.15

- Verifica a pressoflessione retta - CC 54 SLU  $X1=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3384.67$   $T_x=82.53$   $M_y=-24.92$   $T_y=-3.04$   $M_x=1.04$   
 $M_y, Ed=-24.92$   $M_y, c, Rd=776.35$   
 $N, Ed=-3384.67$   $Nc, Rd=27215.20$   $n=N, Ed/Nc, Rd=0.12$   
 $MNy, c, Rd=776.35$   $M_y, Ed/MNy, c, Rd=0.03$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-3384.69$   $T_x=83.79$   $M_y=-16.79$   $T_y=-3.04$   $M_x=1.04$   
 $V, Ed=-3.04$   $Vc, Rd, Red=7842.87$   $V, Ed/Vc, Rd, Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=83.79$   $Vc, Rd, Red=7842.87$   $V, Ed/Vc, Rd, Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1597.46$   $T_x=38.66$   $M_y=-10.13$   $T_y=-5.62$   $M_z=1.63$   $M_x=7.04$   
 Tensioni:  $\sigma_N=-131.37$   $\sigma_M=-40.08$   $\tau=15.24$   $\sigma_{max}=-171.45$   
 Tensioni:  $\sigma_N=-131.37$   $\sigma_M=5.00$   $\tau=22.38$   $\tau_{max}=22.38$   
 Tensioni:  $\sigma_N=-131.37$   $\sigma_M=-40.08$   $\tau=15.24$   $\sigma_{ID, max}=173.47$

Asta n. 4999 (-12964 -13058) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-3581.78$   $M_y, Ed=-39.68$   $M_z, Ed=-0.65$   
 Resistenze:  $Nc, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.05+0.00=0.18$   
 Verifica ZZ:  $0.13+0.04+0.00=0.17$

- Verifica a pressoflessione retta - CC 54 SLU  $X1=0.10$  - Classe 1  
 Sollecitazioni:  $N=-3379.29$   $T_x=117.49$   $M_y=-41.47$   $T_y=-3.84$   $M_x=-6.54$   
 $M_y, Ed=-41.47$   $M_y, c, Rd=776.35$   
 $N, Ed=-3379.29$   $Nc, Rd=27215.20$   $n=N, Ed/Nc, Rd=0.12$   
 $MNy, c, Rd=776.35$   $M_y, Ed/MNy, c, Rd=0.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-3581.78$   $T_x=124.27$   $M_y=-27.59$   $T_y=-5.75$   $M_x=-1.83$   
 $V, Ed=-5.75$   $Vc, Rd, Red=7832.58$   $V, Ed/Vc, Rd, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed=124.27$   $Vc, Rd, Red=7832.58$   $V, Ed/Vc, Rd, Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1627.86$   $T_x=54.43$   $M_y=-16.67$   $T_y=-6.85$   $M_z=-1.90$   $M_x=4.93$   
 Tensioni:  $\sigma_N=-133.87$   $\sigma_M=-63.28$   $\tau=10.68$   $\sigma_{max}=-197.15$   
 Tensioni:  $\sigma_N=-133.87$   $\sigma_M=-5.84$   $\tau=20.73$   $\tau_{max}=20.73$   
 Tensioni:  $\sigma_N=-133.87$   $\sigma_M=-63.28$   $\tau=10.68$   $\sigma_{ID, max}=198.02$

Asta n. 4999 (-13058 -13120) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed=-3597.33$   $M_y, Ed=-60.39$   $M_z, Ed=-1.72$   
 Resistenze:  $Nc, Rd=27215.20$   $M_y, c, Rd=656.79$   $M_z, c, Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463300.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.13+0.07+0.00=0.21$   
 Verifica ZZ:  $0.13+0.06+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=5861.13$   $T_x=89.31$   $M_y=-40.18$   $T_y=-15.38$   $M_z=-1.24$   $M_x=-6.32$   
 Tensioni:  $\sigma_N=482.00$   $\sigma_M=141.14$   $\tau=13.68$   $\sigma_{max}=623.14$   
 Tensioni:  $\sigma_N=482.00$   $\sigma_M=3.81$   $\tau=30.17$   $\tau_{max}=30.17$   
 Tensioni:  $\sigma_N=482.00$   $\sigma_M=141.14$   $\tau=13.68$   $\sigma_{ID, max}=623.59$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X1=0.00$   
 Sollecitazioni:  $N=-3408.02$   $T_x=144.19$   $M_y=-45.54$   $T_y=-13.15$   $M_x=-7.97$   
 $V, Ed=-13.15$   $Vc, Rd, Red=7751.69$   $V, Ed/Vc, Rd, Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=144.19 Vc,Rd,Red=7751.69 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1659.38 T<sub>z</sub>=65.61 M<sub>y</sub>=-25.07 T<sub>y</sub>=-13.03 M<sub>z</sub>=-2.67 M<sub>x</sub>=-6.61  
Tensioni:  $\sigma_N$ =-136.46  $\sigma_M$ =-94.52  $\tau$ =14.30  $\sigma_{max}$ =-230.98  
Tensioni:  $\sigma_N$ =-136.46  $\sigma_M$ =8.20  $\tau$ =26.42  $\tau_{max}$ =26.42  
Tensioni:  $\sigma_N$ =-136.46  $\sigma_M$ =-94.52  $\tau$ =14.30  $\sigma_{ID,max}$ =232.31
- Asta n. 4999 (-13120 -13200) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-3664.92 M<sub>y</sub>,Ed=-89.95 M<sub>z</sub>,Ed=-4.81  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.11+0.01=0.25  
Verifica ZZ: 0.13+0.09+0.01=0.23
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5832.47 T<sub>z</sub>=148.92 M<sub>y</sub>=-60.93 T<sub>y</sub>=-39.02 M<sub>z</sub>=-4.57 M<sub>x</sub>=-10.77  
Tensioni:  $\sigma_N$ =479.64  $\sigma_M$ =223.17  $\tau$ =23.30  $\sigma_{max}$ =702.82  
Tensioni:  $\sigma_N$ =479.64  $\sigma_M$ =14.00  $\tau$ =50.81  $\tau_{max}$ =50.81  
Tensioni:  $\sigma_N$ =479.64  $\sigma_M$ =223.17  $\tau$ =23.30  $\sigma_{ID,max}$ =703.97
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-3470.97 T<sub>z</sub>=209.32 M<sub>y</sub>=-68.60 T<sub>y</sub>=-32.35 M<sub>z</sub>=-13.95  
V,Ed=-32.35 Vc,Rd,Red=7673.07 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=209.32 Vc,Rd,Red=7673.07 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1699.48 T<sub>z</sub>=93.43 M<sub>y</sub>=-37.42 T<sub>y</sub>=-33.55 M<sub>z</sub>=-5.21 M<sub>x</sub>=-8.53  
Tensioni:  $\sigma_N$ =-139.76  $\sigma_M$ =-145.26  $\tau$ =18.45  $\sigma_{max}$ =-285.02  
Tensioni:  $\sigma_N$ =-139.76  $\sigma_M$ =15.97  $\tau$ =35.71  $\tau_{max}$ =35.71  
Tensioni:  $\sigma_N$ =-139.76  $\sigma_M$ =-145.26  $\tau$ =18.45  $\sigma_{ID,max}$ =286.81
- Asta n. 4999 (-13200 -13266) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-3781.27 M<sub>y</sub>,Ed=-123.50 M<sub>z</sub>,Ed=-5.64  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463300.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463300.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.14+0.15+0.01=0.30  
Verifica ZZ: 0.14+0.12+0.01=0.27
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5862.11 T<sub>z</sub>=138.51 M<sub>y</sub>=-81.64 T<sub>y</sub>=-29.98 M<sub>z</sub>=-5.82 M<sub>x</sub>=-13.29  
Tensioni:  $\sigma_N$ =482.08  $\sigma_M$ =298.03  $\tau$ =28.76  $\sigma_{max}$ =780.11  
Tensioni:  $\sigma_N$ =482.08  $\sigma_M$ =17.85  $\tau$ =54.34  $\tau_{max}$ =54.34  
Tensioni:  $\sigma_N$ =482.08  $\sigma_M$ =298.03  $\tau$ =28.76  $\sigma_{ID,max}$ =781.70
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.00  
Sollecitazioni: N=-1740.32 T<sub>z</sub>=117.68 M<sub>y</sub>=-52.73 T<sub>y</sub>=-4.62 M<sub>z</sub>=-13.60  
V,Ed=-4.62 Vc,Rd,Red=7677.71 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=117.68 Vc,Rd,Red=7677.71 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1745.74 T<sub>z</sub>=102.89 M<sub>y</sub>=-52.03 T<sub>y</sub>=-74.17 M<sub>z</sub>=-11.12 M<sub>x</sub>=-9.53  
Tensioni:  $\sigma_N$ =-143.56  $\sigma_M$ =-215.21  $\tau$ =20.63  $\sigma_{max}$ =-358.77  
Tensioni:  $\sigma_N$ =-143.56  $\sigma_M$ =34.11  $\tau$ =39.64  $\tau_{max}$ =39.64

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Tensioni:  $\sigma_N=-143.56$   $\sigma_M=-215.21$   $\tau=20.63$   $\sigma_{ID,max}=360.55$

Asta n. 4999 (-13266 -13335) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4072.32 My,Ed=-1.77 Mz,Ed=5.35  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.01=0.16  
Verifica ZZ: 0.15+0.00+0.01=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5609.71 Tz=-7.92 My=-4.00 Ty=-60.17 Mz=6.69 Mx=14.68  
Tensioni:  $\sigma_N=461.32$   $\sigma_M=36.43$   $\tau=31.76$   $\sigma_{max}=497.76$   
Tensioni:  $\sigma_N=461.32$   $\sigma_M=-12.28$   $\tau=42.87$   $\tau_{max}=42.87$   
Tensioni:  $\sigma_N=461.32$   $\sigma_M=36.43$   $\tau=31.76$   $\sigma_{ID,max}=500.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 89 SLU Xl=0.00  
Sollecitazioni: N=-2757.62 Tz=-3.42 Ty=-71.88 Mz=9.09 Mx=-5.47  
V,Ed=-71.88 Vc,Rd,Red=7784.63 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-3.42 Vc,Rd,Red=7784.63 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1823.84 Tz=-45.81 My=-14.73 Ty=-81.95 Mz=8.45 Mx=11.21  
Tensioni:  $\sigma_N=-149.99$   $\sigma_M=-78.99$   $\tau=24.26$   $\sigma_{max}=-228.97$   
Tensioni:  $\sigma_N=-149.99$   $\sigma_M=-45.18$   $\tau=39.40$   $\tau_{max}=39.40$   
Tensioni:  $\sigma_N=-149.99$   $\sigma_M=-76.11$   $\tau=34.88$   $\sigma_{ID,max}=234.03$

Asta n. 4999 (-13335 -13402) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4101.34 My,Ed=3.44 Mz,Ed=1.69  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5467.46 Tz=-21.51 My=-2.50 Ty=-6.78 Mz=1.57 Mx=13.99  
Tensioni:  $\sigma_N=449.63$   $\sigma_M=13.85$   $\tau=30.27$   $\sigma_{max}=463.48$   
Tensioni:  $\sigma_N=449.63$   $\sigma_M=-4.81$   $\tau=34.24$   $\tau_{max}=34.24$   
Tensioni:  $\sigma_N=449.63$   $\sigma_M=13.85$   $\tau=30.27$   $\sigma_{ID,max}=466.44$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.10  
Sollecitazioni: N=-1781.24 Tz=-32.56 Ty=-4.84 Mx=14.42  
V,Ed=-4.84 Vc,Rd,Red=7666.80 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-32.56 Vc,Rd,Red=7666.80 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1824.45 Tz=-38.37 My=9.23 Ty=-26.30 Mz=1.71 Mx=11.13  
Tensioni:  $\sigma_N=-150.04$   $\sigma_M=-37.31$   $\tau=24.10$   $\sigma_{max}=-187.34$   
Tensioni:  $\sigma_N=-150.04$   $\sigma_M=-5.25$   $\tau=31.18$   $\tau_{max}=31.18$   
Tensioni:  $\sigma_N=-150.04$   $\sigma_M=-37.31$   $\tau=24.10$   $\sigma_{ID,max}=191.94$

Asta n. 4999 (-13402 -13474) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4130.17 My,Ed=2.80 Mz,Ed=1.41  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

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$\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=5418.10 T<sub>z</sub>=17.79 M<sub>y</sub>=-1.26 T<sub>y</sub>=-7.19 M<sub>z</sub>=1.03 M<sub>x</sub>=10.95  
Tensioni:  $\sigma_N=445.57$   $\sigma_M=7.80$   $\tau=23.69$   $\sigma_{max}=453.37$   
Tensioni:  $\sigma_N=445.57$   $\sigma_M=3.17$   $\tau=26.98$   $\tau_{max}=26.98$   
Tensioni:  $\sigma_N=445.57$   $\sigma_M=7.80$   $\tau=23.69$   $\sigma_{ID,max}=455.23$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU Xl=0.08  
Sollecitazioni: N=-2949.07 T<sub>z</sub>=38.79 T<sub>y</sub>=-6.79 M<sub>z</sub>=1.54 M<sub>x</sub>=7.51  
V,Ed=-6.79 Vc,Rd,Red=7757.79 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=38.79 Vc,Rd,Red=7757.79 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1841.96 T<sub>z</sub>=25.07 M<sub>y</sub>=6.45 T<sub>y</sub>=-12.70 M<sub>z</sub>=1.49 M<sub>x</sub>=9.99  
Tensioni:  $\sigma_N=-151.48$   $\sigma_M=-27.04$   $\tau=21.61$   $\sigma_{max}=-178.52$   
Tensioni:  $\sigma_N=-151.48$   $\sigma_M=4.56$   $\tau=26.24$   $\tau_{max}=26.24$   
Tensioni:  $\sigma_N=-151.48$   $\sigma_M=-27.04$   $\tau=21.61$   $\sigma_{ID,max}=182.40$

Asta n. 4999 (-13474 -13544) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4147.94 M<sub>y,Ed</sub>=-3.35 M<sub>z,Ed</sub>=0.66  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.07 - Classe 3  
Sollecitazioni: N=-3927.84 T<sub>z</sub>=35.56 M<sub>y</sub>=-3.90 T<sub>y</sub>=-6.32 M<sub>z</sub>=1.03 M<sub>x</sub>=9.42  
Tensioni:  $\sigma_N=-323.01$   $\sigma_M=-16.77$   $\tau=20.39$   $\sigma_{max}=-339.79$   
Tensioni:  $\sigma_N=-323.01$   $\sigma_M=3.15$   $\tau=26.96$   $\tau_{max}=26.96$   
Tensioni:  $\sigma_N=-323.01$   $\sigma_M=-16.77$   $\tau=20.39$   $\sigma_{ID,max}=341.62$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.08  
Sollecitazioni: N=-3927.84 T<sub>z</sub>=35.45 M<sub>y</sub>=-4.21 T<sub>y</sub>=-6.32 M<sub>x</sub>=9.42  
V,Ed=-6.32 Vc,Rd,Red=7732.62 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=35.45 Vc,Rd,Red=7732.62 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1865.82 T<sub>z</sub>=23.32 M<sub>y</sub>=4.11 T<sub>y</sub>=-7.77 M<sub>z</sub>=1.69 M<sub>x</sub>=8.93  
Tensioni:  $\sigma_N=-153.44$   $\sigma_M=-19.74$   $\tau=19.32$   $\sigma_{max}=-173.18$   
Tensioni:  $\sigma_N=-153.44$   $\sigma_M=5.18$   $\tau=23.63$   $\tau_{max}=23.63$   
Tensioni:  $\sigma_N=-153.44$   $\sigma_M=-19.74$   $\tau=19.32$   $\sigma_{ID,max}=176.39$

Asta n. 4999 (-13544 -13610) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4153.93 M<sub>y,Ed</sub>=-11.27 M<sub>z,Ed</sub>=-0.25  
Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.01+0.00=0.17  
Verifica ZZ: 0.15+0.01+0.00=0.16
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.01 - Classe 3  
Sollecitazioni: N=-3925.88 T<sub>z</sub>=62.63 M<sub>y</sub>=-8.04 T<sub>y</sub>=-3.02 M<sub>z</sub>=1.02 M<sub>x</sub>=2.85

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Tensioni:  $\sigma_N=-322.85$   $\sigma_M=-30.86$   $\tau=6.16$   $\sigma_{max}=-353.71$   
Tensioni:  $\sigma_N=-322.85$   $\sigma_M=3.12$   $\tau=17.73$   $\tau_{max}=17.73$   
Tensioni:  $\sigma_N=-322.85$   $\sigma_M=-30.86$   $\tau=6.16$   $\sigma_{ID,max}=353.87$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.02$   
Sollecitazioni:  $N=-3925.88$   $T_z=62.51$   $M_y=-8.60$   $T_y=-3.02$   $M_x=2.85$   
 $V,Ed=-3.02$   $Vc,Rd,Red=7819.12$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=62.51$   $Vc,Rd,Red=7819.12$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-1888.78$   $T_z=28.47$   $M_y=-5.16$   $T_y=-5.17$   $M_z=1.99$   $M_x=7.22$   
Tensioni:  $\sigma_N=-155.33$   $\sigma_M=-24.37$   $\tau=15.63$   $\sigma_{max}=-179.69$   
Tensioni:  $\sigma_N=-155.33$   $\sigma_M=6.11$   $\tau=20.89$   $\tau_{max}=20.89$   
Tensioni:  $\sigma_N=-155.33$   $\sigma_M=-24.37$   $\tau=15.63$   $\sigma_{ID,max}=181.72$

Asta n. 4999 (-13610 -13676) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4155.28$   $M_y,Ed=-20.61$   $M_z,Ed=-0.24$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463100.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463100.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.15+0.03+0.00=0.18$   
Verifica ZZ:  $0.15+0.02+0.00=0.17$

- Verifica in termini tensionali [4.2.4] - CC 60 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-2944.55$   $T_z=48.88$   $M_y=-20.01$   $M_z=1.09$   $M_x=-5.68$   
Tensioni:  $\sigma_N=-242.15$   $\sigma_M=-71.91$   $\tau=12.28$   $\sigma_{max}=-314.06$   
Tensioni:  $\sigma_N=-242.15$   $\sigma_M=-3.35$   $\tau=21.31$   $\tau_{max}=21.31$   
Tensioni:  $\sigma_N=-242.15$   $\sigma_M=-71.91$   $\tau=12.28$   $\sigma_{ID,max}=314.78$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-3918.50$   $T_z=64.95$   $M_y=-16.78$   $M_x=-3.70$   
 $V,Ed=64.95$   $Vc,Rd,Red=7807.97$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-1910.75$   $T_z=30.48$   $M_y=-8.91$   $T_y=-3.99$   $M_z=2.10$   $M_x=5.67$   
Tensioni:  $\sigma_N=-157.13$   $\sigma_M=-37.53$   $\tau=12.26$   $\sigma_{max}=-194.66$   
Tensioni:  $\sigma_N=-157.13$   $\sigma_M=6.45$   $\tau=17.89$   $\tau_{max}=17.89$   
Tensioni:  $\sigma_N=-157.13$   $\sigma_M=-37.53$   $\tau=12.26$   $\sigma_{ID,max}=195.81$

Asta n. 4999 (-13676 -13742) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4161.84$   $M_y,Ed=-35.89$   $M_z,Ed=-0.87$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.15+0.04+0.00=0.20$   
Verifica ZZ:  $0.15+0.04+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-3347.94$   $T_z=85.66$   $M_y=-27.66$   $T_y=-6.65$   $M_z=-1.14$   $M_x=-6.79$   
Tensioni:  $\sigma_N=-275.32$   $\sigma_M=-98.12$   $\tau=14.69$   $\sigma_{max}=-373.44$   
Tensioni:  $\sigma_N=-275.32$   $\sigma_M=3.49$   $\tau=30.51$   $\tau_{max}=30.51$   
Tensioni:  $\sigma_N=-275.32$   $\sigma_M=-98.12$   $\tau=14.69$   $\sigma_{ID,max}=374.31$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-4161.84$   $T_z=112.77$   $M_y=-24.93$   $T_y=-7.82$   $M_x=-8.57$   
 $V,Ed=-7.82$   $Vc,Rd,Red=7743.88$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=112.77$   $Vc,Rd,Red=7743.88$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1932.61$   $T_z=51.55$   $M_y=-14.86$   $T_y=-5.65$   $M_z=-2.17$   $M_x=-7.67$   
 Tensioni:  $\sigma_N=-158.93$   $\sigma_M=-58.04$   $\tau=16.61$   $\sigma_{max}=-216.97$   
 Tensioni:  $\sigma_N=-158.93$   $\sigma_M=6.66$   $\tau=26.13$   $\tau_{max}=26.13$   
 Tensioni:  $\sigma_N=-158.93$   $\sigma_M=-58.04$   $\tau=16.61$   $\sigma_{ID,max}=218.87$

Asta n. 4999 (-13742 -13808) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4221.77$   $M_y,Ed=-53.54$   $M_z,Ed=-2.56$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.07+0.00=0.22$   
 Verifica ZZ:  $0.16+0.05+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=5322.45$   $T_z=74.45$   $M_y=-37.18$   $T_y=-18.98$   $M_z=-1.89$   $M_x=-11.31$   
 Tensioni:  $\sigma_N=437.70$   $\sigma_M=133.13$   $\tau=24.48$   $\sigma_{max}=570.83$   
 Tensioni:  $\sigma_N=437.70$   $\sigma_M=5.80$   $\tau=38.23$   $\tau_{max}=38.23$   
 Tensioni:  $\sigma_N=437.70$   $\sigma_M=133.13$   $\tau=24.48$   $\sigma_{ID,max}=572.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4221.77$   $T_z=121.30$   $M_y=-41.75$   $T_y=-19.34$   $M_x=-14.83$   
 $V,Ed=-19.34$   $V_c,Rd,Red=7661.46$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=121.30$   $V_c,Rd,Red=7661.46$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1964.71$   $T_z=56.35$   $M_y=-21.97$   $T_y=-12.30$   $M_z=-2.99$   $M_x=-9.56$   
 Tensioni:  $\sigma_N=-161.57$   $\sigma_M=-85.05$   $\tau=20.69$   $\sigma_{max}=-246.62$   
 Tensioni:  $\sigma_N=-161.57$   $\sigma_M=9.16$   $\tau=31.10$   $\tau_{max}=31.10$   
 Tensioni:  $\sigma_N=-161.57$   $\sigma_M=-85.05$   $\tau=20.69$   $\sigma_{ID,max}=249.21$

Asta n. 4999 (-13808 -13874) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4325.78$   $M_y,Ed=-81.06$   $M_z,Ed=-3.27$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463100.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463100.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.10+0.00=0.26$   
 Verifica ZZ:  $0.16+0.08+0.00=0.24$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4325.76$   $T_z=194.97$   $M_y=-81.06$   $T_y=-17.38$   $M_z=-3.27$   $M_x=-21.46$   
 Tensioni:  $\sigma_N=-355.74$   $\sigma_M=-287.39$   $\tau=46.45$   $\sigma_{max}=-643.13$   
 Tensioni:  $\sigma_N=-355.74$   $\sigma_M=10.04$   $\tau=82.46$   $\tau_{max}=82.46$   
 Tensioni:  $\sigma_N=-355.74$   $\sigma_M=-287.39$   $\tau=46.45$   $\sigma_{ID,max}=648.14$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4073.76$   $T_z=183.19$   $M_y=-62.04$   $T_y=-12.08$   $M_x=-24.04$   
 $V,Ed=-12.08$   $V_c,Rd,Red=7540.33$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=183.19$   $V_c,Rd,Red=7540.33$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2008.29$   $T_z=90.76$   $M_y=-34.24$   $T_y=-28.39$   $M_z=-4.99$   $M_x=-11.50$   
 Tensioni:  $\sigma_N=-165.16$   $\sigma_M=-133.69$   $\tau=24.89$   $\sigma_{max}=-298.84$   
 Tensioni:  $\sigma_N=-165.16$   $\sigma_M=15.31$   $\tau=41.65$   $\tau_{max}=41.65$   
 Tensioni:  $\sigma_N=-165.16$   $\sigma_M=-133.69$   $\tau=24.89$   $\sigma_{ID,max}=301.94$

Asta n. 4999 (-13874 -13942) Tubo 80x80x4 mm - S235 Crit. 2



- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4403.27$   $M_y, Ed = -112.14$   $M_z, Ed = -2.56$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16 + 0.14 + 0.00 = 0.30$   
 Verifica ZZ:  $0.16 + 0.11 + 0.00 = 0.28$
  
  - Verifica in termini tensionali [4.2.4] - CC 25 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -4171.59$   $T_z = 217.21$   $M_y = -111.26$   $T_y = 32.18$   $M_z = 1.30$   $M_x = -22.87$   
 Tensioni:  $\sigma_N = -343.06$   $\sigma_M = -383.58$   $\tau = 49.49$   $\sigma_{max} = -726.63$   
 Tensioni:  $\sigma_N = -343.06$   $\sigma_M = -3.99$   $\tau = 89.61$   $\tau_{max} = 89.61$   
 Tensioni:  $\sigma_N = -343.06$   $\sigma_M = -383.13$   $\tau = 53.66$   $\sigma_{ID, max} = 732.11$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l = 0.07$   
 Sollecitazioni:  $N = -4403.26$   $T_z = 218.05$   $M_y = -106.45$   $T_y = 23.17$   $M_x = -24.25$   
 $V, Ed = 23.17$   $V_c, Rd, Red = 7537.57$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 218.05$   $V_c, Rd, Red = 7537.57$   $V, Ed/V_c, Rd, Red = 0.03$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -2048.72$   $T_z = 99.49$   $M_y = -48.38$   $T_y = 83.98$   $M_z = 10.93$   $M_x = -12.20$   
 Tensioni:  $\sigma_N = -168.48$   $\sigma_M = -202.12$   $\tau = 26.41$   $\sigma_{max} = -370.60$   
 Tensioni:  $\sigma_N = -168.48$   $\sigma_M = -33.53$   $\tau = 44.80$   $\tau_{max} = 44.80$   
 Tensioni:  $\sigma_N = -168.48$   $\sigma_M = -202.12$   $\tau = 26.41$   $\sigma_{ID, max} = 373.41$
- Asta n. 4999 (-13942 -14012) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4495.06$   $M_y, Ed = -19.34$   $M_z, Ed = 3.45$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.02 + 0.01 = 0.19$   
 Verifica ZZ:  $0.17 + 0.02 + 0.01 = 0.19$
  
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = 5230.36$   $T_z = -22.95$   $M_y = -16.15$   $T_y = -41.12$   $M_z = 4.15$   $M_x = 10.09$   
 Tensioni:  $\sigma_N = 430.13$   $\sigma_M = 69.16$   $\tau = 21.83$   $\sigma_{max} = 499.29$   
 Tensioni:  $\sigma_N = 430.13$   $\sigma_M = -49.53$   $\tau = 29.43$   $\tau_{max} = 29.43$   
 Tensioni:  $\sigma_N = 430.13$   $\sigma_M = 69.16$   $\tau = 21.83$   $\sigma_{ID, max} = 500.72$
  
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l = 0.10$   
 Sollecitazioni:  $N = -4495.04$   $T_z = -57.24$   $M_y = -13.92$   $T_y = -37.81$   $M_x = 17.53$   
 $V, Ed = -37.81$   $V_c, Rd, Red = 7625.97$   $V, Ed/V_c, Rd, Red = 0.00$
  
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = -57.24$   $V_c, Rd, Red = 7625.97$   $V, Ed/V_c, Rd, Red = 0.01$
  
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.00$  - Classe 3  
 Sollecitazioni:  $N = -2080.62$   $T_z = -48.76$   $M_y = -18.65$   $T_y = -75.56$   $M_z = 7.18$   $M_x = 10.34$   
 Tensioni:  $\sigma_N = -171.10$   $\sigma_M = -88.01$   $\tau = 22.38$   $\sigma_{max} = -259.12$   
 Tensioni:  $\sigma_N = -171.10$   $\sigma_M = -57.18$   $\tau = 36.34$   $\tau_{max} = 36.34$   
 Tensioni:  $\sigma_N = -171.10$   $\sigma_M = -85.56$   $\tau = 32.16$   $\sigma_{ID, max} = 262.64$
- Asta n. 4999 (-14012 -14081) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4471.62$   $M_y, Ed = -11.90$   $M_z, Ed = 0.51$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463100.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463100.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16 + 0.01 + 0.00 = 0.18$

Verifica ZZ:  $0.16+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-4211.44$   $T_z=-24.07$   $M_y=-6.46$   $T_y=2.43$   $M_z=1.02$   $M_x=14.32$   
 Tensioni:  $\sigma_N=-346.33$   $\sigma_M=-25.47$   $\tau=30.99$   $\sigma_{max}=-371.81$   
 Tensioni:  $\sigma_N=-346.33$   $\sigma_M=-3.12$   $\tau=35.44$   $\tau_{max}=35.44$   
 Tensioni:  $\sigma_N=-346.33$   $\sigma_M=-25.47$   $\tau=30.99$   $\sigma_{ID,max}=375.66$
- Verifica a taglio e torsione dir. Z [4.2.25] - CC 49 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=907.21$   $T_z=-47.77$   $M_y=-8.31$   $M_x=13.99$   
 $V,Ed=-47.77$   $Vc,Rd,Red=7672.53$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2067.56$   $T_z=-43.70$   $M_y=-11.86$   $T_y=-23.93$   $M_z=10.36$   
 Tensioni:  $\sigma_N=-170.03$   $\sigma_M=-40.40$   $\tau=22.42$   $\sigma_{max}=-210.43$   
 Tensioni:  $\sigma_N=-170.03$   $\sigma_M=0.00$   $\tau=30.50$   $\tau_{max}=30.50$   
 Tensioni:  $\sigma_N=-170.03$   $\sigma_M=-40.40$   $\tau=26.85$   $\sigma_{ID,max}=215.50$

Asta n. 4999 (-14081 -14147) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4461.82$   $M_y,Ed=-7.00$   $M_z,Ed=0.55$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.01+0.00=0.17$   
 Verifica ZZ:  $0.16+0.01+0.00=0.17$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4202.18$   $T_z=16.11$   $M_y=-6.78$   $T_y=-4.30$   $M_z=1.05$   $M_x=10.06$   
 Tensioni:  $\sigma_N=-345.57$   $\sigma_M=-26.69$   $\tau=21.77$   $\sigma_{max}=-372.26$   
 Tensioni:  $\sigma_N=-345.57$   $\sigma_M=3.22$   $\tau=24.75$   $\tau_{max}=24.75$   
 Tensioni:  $\sigma_N=-345.57$   $\sigma_M=-26.69$   $\tau=21.77$   $\sigma_{ID,max}=374.17$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1944.06$   $T_z=-15.97$   $M_y=-2.02$   $T_y=-2.52$   $M_x=8.41$   
 $V,Ed=-2.52$   $Vc,Rd,Red=7745.91$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-15.97$   $Vc,Rd,Red=7745.91$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2072.92$   $T_z=-17.92$   $M_y=-6.66$   $T_y=-10.60$   $M_z=1.66$   $M_x=9.20$   
 Tensioni:  $\sigma_N=-170.47$   $\sigma_M=-28.34$   $\tau=19.91$   $\sigma_{max}=-198.81$   
 Tensioni:  $\sigma_N=-170.47$   $\sigma_M=-5.08$   $\tau=23.22$   $\tau_{max}=23.22$   
 Tensioni:  $\sigma_N=-170.47$   $\sigma_M=-28.34$   $\tau=19.91$   $\sigma_{ID,max}=201.78$

Asta n. 4999 (-14147 -14213) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4453.36$   $M_y,Ed=-7.85$   $M_z,Ed=-0.23$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.01+0.00=0.17$   
 Verifica ZZ:  $0.16+0.01+0.00=0.17$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=-4189.60$   $T_z=15.15$   $M_y=-8.63$   $T_y=-2.75$   $M_z=1.02$   $M_x=5.56$   
 Tensioni:  $\sigma_N=-344.54$   $\sigma_M=-32.88$   $\tau=12.04$   $\sigma_{max}=-377.42$   
 Tensioni:  $\sigma_N=-344.54$   $\sigma_M=3.12$   $\tau=14.84$   $\tau_{max}=14.84$   
 Tensioni:  $\sigma_N=-344.54$   $\sigma_M=-32.88$   $\tau=12.04$   $\sigma_{ID,max}=378.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.06$   
 Sollecitazioni:  $N=-4189.60$   $T_z=15.04$   $M_y=-8.77$   $T_y=-2.75$   $M_x=5.56$   
 $V,Ed=-2.75$   $Vc,Rd,Red=7783.38$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=15.04 Vc,Rd,Red=7783.38 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2084.98 T<sub>z</sub>=-13.21 M<sub>y</sub>=-5.34 T<sub>y</sub>=-5.88 M<sub>z</sub>=2.02 M<sub>x</sub>=8.22  
Tensioni:  $\sigma_N$ =-171.46  $\sigma_M$ =-25.06  $\tau$ =17.78  $\sigma_{max}$ =-196.52  
Tensioni:  $\sigma_N$ =-171.46  $\sigma_M$ =-6.19  $\tau$ =20.22  $\tau_{max}$ =20.22  
Tensioni:  $\sigma_N$ =-171.46  $\sigma_M$ =-25.06  $\tau$ =17.78  $\sigma_{ID,max}$ =198.92

Asta n. 4999 (-14213 -14279) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4440.61 M<sub>y</sub>,Ed=-12.87 M<sub>z</sub>,Ed=-0.20  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.00=0.18  
Verifica ZZ: 0.16+0.01+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-3127.44 T<sub>z</sub>=33.57 M<sub>y</sub>=-13.62 M<sub>z</sub>=1.26 M<sub>x</sub>=-2.55  
Tensioni:  $\sigma_N$ =-257.19  $\sigma_M$ =-50.68  $\tau$ =5.51  $\sigma_{max}$ =-307.87  
Tensioni:  $\sigma_N$ =-257.19  $\sigma_M$ =-3.85  $\tau$ =11.71  $\tau_{max}$ =11.71  
Tensioni:  $\sigma_N$ =-257.19  $\sigma_M$ =-50.68  $\tau$ =5.51  $\sigma_{ID,max}$ =308.02

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4170.90 T<sub>z</sub>=42.30 M<sub>y</sub>=-10.88 M<sub>x</sub>=-1.08  
V,Ed=42.30 Vc,Rd,Red=7842.33 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2096.57 T<sub>z</sub>=18.74 M<sub>y</sub>=-5.78 T<sub>y</sub>=-3.33 M<sub>z</sub>=2.42 M<sub>x</sub>=6.68  
Tensioni:  $\sigma_N$ =-172.41  $\sigma_M$ =-27.96  $\tau$ =14.45  $\sigma_{max}$ =-200.38  
Tensioni:  $\sigma_N$ =-172.41  $\sigma_M$ =7.44  $\tau$ =17.91  $\tau_{max}$ =17.91  
Tensioni:  $\sigma_N$ =-172.41  $\sigma_M$ =-27.96  $\tau$ =14.45  $\sigma_{ID,max}$ =201.94

Asta n. 4999 (-14279 -14345) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4430.40 M<sub>y</sub>,Ed=-19.52 M<sub>z</sub>,Ed=-0.55  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463100.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463100.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.00=0.19  
Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.09 - Classe 3  
Sollecitazioni: N=-3112.21 T<sub>z</sub>=35.90 M<sub>y</sub>=-18.61 T<sub>y</sub>=-2.60 M<sub>z</sub>=1.00 M<sub>x</sub>=-7.59  
Tensioni:  $\sigma_N$ =-255.94  $\sigma_M$ =-66.81  $\tau$ =16.43  $\sigma_{max}$ =-322.75  
Tensioni:  $\sigma_N$ =-255.94  $\sigma_M$ =-3.07  $\tau$ =23.06  $\tau_{max}$ =23.06  
Tensioni:  $\sigma_N$ =-255.94  $\sigma_M$ =-66.81  $\tau$ =16.43  $\sigma_{ID,max}$ =324.00

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4154.61 T<sub>z</sub>=47.84 M<sub>y</sub>=-17.15 T<sub>y</sub>=-3.62 M<sub>x</sub>=-7.65  
V,Ed=-3.62 Vc,Rd,Red=7755.94 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=47.84 Vc,Rd,Red=7755.94 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2107.80 T<sub>z</sub>=24.61 M<sub>y</sub>=-7.75 T<sub>y</sub>=-2.86 M<sub>z</sub>=2.25 M<sub>x</sub>=-8.36  
Tensioni:  $\sigma_N$ =-173.34  $\sigma_M$ =-34.06  $\tau$ =18.09  $\sigma_{max}$ =-207.40  
Tensioni:  $\sigma_N$ =-173.34  $\sigma_M$ =-6.89  $\tau$ =22.64  $\tau_{max}$ =22.64  
Tensioni:  $\sigma_N$ =-173.34  $\sigma_M$ =-34.06  $\tau$ =18.09  $\sigma_{ID,max}$ =209.75

Asta n. 4999 (-14345 -14411) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4459.87 My,Ed=-30.92 Mz,Ed=-1.61  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.04+0.00=0.20  
 Verifica ZZ: 0.16+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4459.85 T<sub>2</sub>=83.71 M<sub>y</sub>=-30.92 T<sub>y</sub>=-11.17 M<sub>z</sub>=-1.61 M<sub>x</sub>=-13.68  
 Tensioni:  $\sigma_N=-366.76$   $\sigma_M=-110.86$   $\tau=29.60$   $\sigma_{max}=-477.63$   
 Tensioni:  $\sigma_N=-366.76$   $\sigma_M=4.94$   $\tau=45.06$   $\tau_{max}=45.06$   
 Tensioni:  $\sigma_N=-366.76$   $\sigma_M=-110.86$   $\tau=29.60$   $\sigma_{ID,max}=480.37$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-4459.87 T<sub>2</sub>=84.97 M<sub>y</sub>=-22.68 T<sub>y</sub>=-11.17 M<sub>z</sub>=-13.68  
 V,Ed=-11.17 Vc,Rd,Red=7676.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=84.97 Vc,Rd,Red=7676.60 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2124.97 T<sub>2</sub>=40.11 M<sub>y</sub>=-11.95 T<sub>y</sub>=-4.81 M<sub>z</sub>=-2.47 M<sub>x</sub>=-10.73  
 Tensioni:  $\sigma_N=-174.75$   $\sigma_M=-49.15$   $\tau=23.22$   $\sigma_{max}=-223.90$   
 Tensioni:  $\sigma_N=-174.75$   $\sigma_M=7.59$   $\tau=30.63$   $\tau_{max}=30.63$   
 Tensioni:  $\sigma_N=-174.75$   $\sigma_M=-49.15$   $\tau=23.22$   $\sigma_{ID,max}=227.48$

Asta n. 4999 (-14411 -14477) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4524.02 My,Ed=-44.54 Mz,Ed=-1.55  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.05+0.00=0.22  
 Verifica ZZ: 0.17+0.04+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4524.00 T<sub>2</sub>=90.96 M<sub>y</sub>=-44.54 T<sub>y</sub>=-6.02 M<sub>z</sub>=-1.55 M<sub>x</sub>=-19.59  
 Tensioni:  $\sigma_N=-372.04$   $\sigma_M=-157.06$   $\tau=42.39$   $\sigma_{max}=-529.10$   
 Tensioni:  $\sigma_N=-372.04$   $\sigma_M=4.75$   $\tau=59.19$   $\tau_{max}=59.19$   
 Tensioni:  $\sigma_N=-372.04$   $\sigma_M=-157.06$   $\tau=42.39$   $\sigma_{ID,max}=534.17$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-4278.78 T<sub>2</sub>=94.11 M<sub>y</sub>=-34.64 T<sub>y</sub>=-4.84 M<sub>z</sub>=-18.11  
 V,Ed=-4.84 Vc,Rd,Red=7618.29 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=94.11 Vc,Rd,Red=7618.29 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2149.89 T<sub>2</sub>=50.08 M<sub>y</sub>=-18.24 T<sub>y</sub>=-7.92 M<sub>z</sub>=-2.85 M<sub>x</sub>=-12.33  
 Tensioni:  $\sigma_N=-176.80$   $\sigma_M=-71.86$   $\tau=26.68$   $\sigma_{max}=-248.66$   
 Tensioni:  $\sigma_N=-176.80$   $\sigma_M=8.74$   $\tau=35.93$   $\tau_{max}=35.93$   
 Tensioni:  $\sigma_N=-176.80$   $\sigma_M=-71.86$   $\tau=26.68$   $\sigma_{ID,max}=252.91$

Asta n. 4999 (-14477 -14543) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4569.70 My,Ed=-65.96 Mz,Ed=-1.56  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.17+0.08+0.00=0.25$   
 Verifica ZZ:  $0.17+0.06+0.00=0.23$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4569.68$   $T_z=155.07$   $M_y=-65.96$   $T_y=2.50$   $M_z=-1.32$   $M_x=-24.96$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=-229.25$   $\tau=54.01$   $\sigma_{max}=-605.05$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=4.04$   $\tau=82.65$   $\tau_{max}=82.65$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=-229.25$   $\tau=54.01$   $\sigma_{ID,max}=612.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4321.51$   $T_z=156.94$   $M_y=-50.06$   $T_y=5.85$   $M_x=-23.24$   
 $V,Ed=5.85$   $Vc,Rd,Red=7550.76$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=156.94$   $Vc,Rd,Red=7550.76$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2176.21$   $T_z=78.77$   $M_y=-28.82$   $T_y=27.02$   $M_z=-4.58$   $M_x=-13.95$   
 Tensioni:  $\sigma_N=-178.97$   $\sigma_M=-113.80$   $\tau=30.19$   $\sigma_{max}=-292.76$   
 Tensioni:  $\sigma_N=-178.97$   $\sigma_M=14.04$   $\tau=44.74$   $\tau_{max}=44.74$   
 Tensioni:  $\sigma_N=-178.97$   $\sigma_M=-113.80$   $\tau=30.19$   $\sigma_{ID,max}=297.40$

Asta n. 4999 (-14543 -14613) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4623.38$   $M_y,Ed=-89.65$   $M_z,Ed=-1.33$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.11+0.00=0.28$   
 Verifica ZZ:  $0.17+0.09+0.00=0.26$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4623.36$   $T_z=167.64$   $M_y=-89.65$   $T_y=-9.39$   $M_z=-1.33$   $M_x=-27.09$   
 Tensioni:  $\sigma_N=-380.21$   $\sigma_M=-310.01$   $\tau=58.63$   $\sigma_{max}=-690.22$   
 Tensioni:  $\sigma_N=-380.21$   $\sigma_M=4.07$   $\tau=89.59$   $\tau_{max}=89.59$   
 Tensioni:  $\sigma_N=-380.21$   $\sigma_M=-310.01$   $\tau=58.63$   $\sigma_{ID,max}=697.65$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4369.20$   $T_z=170.84$   $M_y=-73.03$   $T_y=-2.32$   $M_x=-25.40$   
 $V,Ed=-2.32$   $Vc,Rd,Red=7522.44$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=170.84$   $Vc,Rd,Red=7522.44$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2210.65$   $T_z=87.11$   $M_y=-41.12$   $T_y=-63.56$   $M_z=10.07$   $M_x=-14.23$   
 Tensioni:  $\sigma_N=-181.80$   $\sigma_M=-174.44$   $\tau=30.79$   $\sigma_{max}=-356.23$   
 Tensioni:  $\sigma_N=-181.80$   $\sigma_M=-30.89$   $\tau=46.89$   $\tau_{max}=46.89$   
 Tensioni:  $\sigma_N=-181.80$   $\sigma_M=-174.44$   $\tau=30.79$   $\sigma_{ID,max}=360.20$

Asta n. 4999 (-14613 -14681) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4644.66$   $M_y,Ed=-20.81$   $M_z,Ed=0.57$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.03+0.00=0.20$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=5071.76$   $T_z=-12.38$   $M_y=-16.41$   $T_y=-18.85$   $M_z=1.67$   $M_x=7.92$   
 Tensioni:  $\sigma_N=417.09$   $\sigma_M=61.63$   $\tau=17.15$   $\sigma_{max}=478.71$   
 Tensioni:  $\sigma_N=417.09$   $\sigma_M=-50.34$   $\tau=20.63$   $\tau_{max}=20.63$   
 Tensioni:  $\sigma_N=417.09$   $\sigma_M=61.63$   $\tau=17.15$   $\sigma_{ID,max}=479.63$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4644.64$   $T_z=-50.29$   $M_y=-16.06$   $T_y=-11.66$   $M_x=16.59$   
 $V,Ed=-11.66$   $V_c,Rd,Red=7638.27$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-50.29$   $V_c,Rd,Red=7638.27$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2219.32$   $T_z=-39.02$   $M_y=-17.06$   $T_y=64.52$   $M_z=-5.79$   $M_x=12.12$   
Tensioni:  $\sigma_N=-182.51$   $\sigma_M=-77.86$   $\tau=26.23$   $\sigma_{max}=-260.37$   
Tensioni:  $\sigma_N=-182.51$   $\sigma_M=52.32$   $\tau=38.14$   $\tau_{max}=38.14$   
Tensioni:  $\sigma_N=-182.51$   $\sigma_M=-77.86$   $\tau=26.23$   $\sigma_{ID,max}=264.30$

Asta n. 4999 (-14681 -14747) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4596.41$   $M_y,Ed=-14.26$   $M_z,Ed=-0.16$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.00=0.19$   
Verifica ZZ:  $0.17+0.01+0.00=0.18$
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.08$  - Classe 3  
Sollecitazioni:  $N=-4304.30$   $T_z=-19.99$   $M_y=-8.46$   $T_y=8.38$   $M_z=1.06$   $M_x=15.07$   
Tensioni:  $\sigma_N=-353.97$   $\sigma_M=-32.45$   $\tau=32.62$   $\sigma_{max}=-386.43$   
Tensioni:  $\sigma_N=-353.97$   $\sigma_M=-3.25$   $\tau=36.31$   $\tau_{max}=36.31$   
Tensioni:  $\sigma_N=-353.97$   $\sigma_M=-32.45$   $\tau=32.62$   $\sigma_{ID,max}=390.53$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-2020.54$   $T_z=-41.96$   $M_y=-6.13$   $T_y=-1.96$   $M_x=8.36$   
 $V,Ed=-1.96$   $V_c,Rd,Red=7746.55$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-41.96$   $V_c,Rd,Red=7746.55$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2198.95$   $T_z=-35.17$   $M_y=-11.72$   $T_y=-20.58$   $M_x=12.17$   
Tensioni:  $\sigma_N=-180.84$   $\sigma_M=-39.95$   $\tau=26.34$   $\sigma_{max}=-220.78$   
Tensioni:  $\sigma_N=-180.84$   $\sigma_M=0.00$   $\tau=32.84$   $\tau_{max}=32.84$   
Tensioni:  $\sigma_N=-180.84$   $\sigma_M=-39.95$   $\tau=30.14$   $\sigma_{ID,max}=226.87$
- Asta n. 4999 (-14747 -14813) Tubo 80x80x4 mm - S235 Crit. 2
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4575.67$   $M_y,Ed=-10.09$   $M_z,Ed=0.28$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.01+0.00=0.18$   
Verifica ZZ:  $0.17+0.01+0.00=0.18$
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-4284.09$   $T_z=14.24$   $M_y=-9.77$   $T_y=-1.82$   $M_z=1.17$   $M_x=11.15$   
Tensioni:  $\sigma_N=-352.31$   $\sigma_M=-37.29$   $\tau=24.13$   $\sigma_{max}=-389.60$   
Tensioni:  $\sigma_N=-352.31$   $\sigma_M=3.60$   $\tau=26.76$   $\tau_{max}=26.76$   
Tensioni:  $\sigma_N=-352.31$   $\sigma_M=-37.29$   $\tau=24.13$   $\sigma_{ID,max}=391.83$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-2008.29$   $T_z=-15.27$   $M_y=-3.31$   $T_y=-1.65$   $M_x=6.38$   
 $V,Ed=-1.65$   $V_c,Rd,Red=7772.71$   $V,Ed/V_c,Rd,Red=0.00$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-15.27$   $V_c,Rd,Red=7772.71$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2200.02$   $T_x=-14.16$   $M_y=-7.55$   $T_y=-9.06$   $M_z=2.03$   $M_x=11.13$   
 Tensioni:  $\sigma_N=-180.92$   $\sigma_M=-32.65$   $\tau=24.09$   $\sigma_{max}=-213.57$   
 Tensioni:  $\sigma_N=-180.92$   $\sigma_M=-6.22$   $\tau=26.71$   $\tau_{max}=26.71$   
 Tensioni:  $\sigma_N=-180.92$   $\sigma_M=-32.65$   $\tau=24.09$   $\sigma_{ID,max}=217.61$

Asta n. 4999 (-14813 -14879) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4566.30$   $M_y,Ed=-10.71$   $M_z,Ed=-0.20$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.01+0.00=0.18$   
 Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4271.62$   $T_x=10.96$   $M_y=-11.80$   $T_y=-2.00$   $M_z=1.05$   $M_x=6.75$   
 Tensioni:  $\sigma_N=-351.28$   $\sigma_M=-43.79$   $\tau=14.60$   $\sigma_{max}=-395.07$   
 Tensioni:  $\sigma_N=-351.28$   $\sigma_M=3.21$   $\tau=16.62$   $\tau_{max}=16.62$   
 Tensioni:  $\sigma_N=-351.28$   $\sigma_M=-43.79$   $\tau=14.60$   $\sigma_{ID,max}=395.88$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.10$   
 Sollecitazioni:  $N=-2004.14$   $T_x=-11.05$   $M_y=-1.69$   $T_y=-1.33$   $M_x=4.51$   
 $V,Ed=-1.33$   $V_c,Rd,Red=7797.24$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-11.05$   $V_c,Rd,Red=7797.24$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2209.38$   $T_x=-10.01$   $M_y=-6.68$   $T_y=-4.82$   $M_z=2.44$   $M_x=10.23$   
 Tensioni:  $\sigma_N=-181.69$   $\sigma_M=-31.07$   $\tau=22.13$   $\sigma_{max}=-212.76$   
 Tensioni:  $\sigma_N=-181.69$   $\sigma_M=-7.49$   $\tau=23.98$   $\tau_{max}=23.98$   
 Tensioni:  $\sigma_N=-181.69$   $\sigma_M=-31.07$   $\tau=22.13$   $\sigma_{ID,max}=216.19$

Asta n. 4999 (-14879 -14945) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4558.84$   $M_y,Ed=-15.05$   $M_z,Ed=-0.51$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463100.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463100.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.02+0.00=0.19$   
 Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.02$  - Classe 3  
 Sollecitazioni:  $N=-4259.99$   $T_x=36.95$   $M_y=-13.82$   $T_y=-3.79$   $M_z=1.02$   
 Tensioni:  $\sigma_N=-350.33$   $\sigma_M=-50.56$   $\tau=0.00$   $\sigma_{max}=-400.89$   
 Tensioni:  $\sigma_N=-350.33$   $\sigma_M=3.12$   $\tau=6.82$   $\tau_{max}=6.82$   
 Tensioni:  $\sigma_N=-350.33$   $\sigma_M=-50.56$   $\tau=0.00$   $\sigma_{ID,max}=400.89$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.03$   
 Sollecitazioni:  $N=-4259.98$   $T_x=36.83$   $M_y=-14.15$   $T_y=-3.79$   
 $V,Ed=-3.79$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=36.83$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2218.49$   $T_x=17.10$   $M_y=-7.17$   $T_y=-2.80$   $M_z=2.54$   $M_x=8.68$   
 Tensioni:  $\sigma_N=-182.44$   $\sigma_M=-33.09$   $\tau=18.78$   $\sigma_{max}=-215.53$   
 Tensioni:  $\sigma_N=-182.44$   $\sigma_M=7.80$   $\tau=21.93$   $\tau_{max}=21.93$   
 Tensioni:  $\sigma_N=-182.44$   $\sigma_M=-33.09$   $\tau=18.78$   $\sigma_{ID,max}=217.97$

Asta n. 4999 (-14945 -15011) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4577.50$   $M_y, Ed = -20.33$   $M_z, Ed = -1.28$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.02 + 0.00 = 0.20$   
 Verifica ZZ:  $0.17 + 0.02 + 0.00 = 0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -4577.48$   $T_x = 35.22$   $M_y = -20.33$   $T_y = -8.30$   $M_z = -1.28$   $M_x = -6.29$   
 Tensioni:  $\sigma_N = -376.44$   $\sigma_M = -73.62$   $\tau = 13.61$   $\sigma_{max} = -450.06$   
 Tensioni:  $\sigma_N = -376.44$   $\sigma_M = 3.92$   $\tau = 20.11$   $\tau_{max} = 20.11$   
 Tensioni:  $\sigma_N = -376.44$   $\sigma_M = -73.62$   $\tau = 13.61$   $\sigma_{ID, max} = 450.68$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = -4319.05$   $T_x = 36.65$   $M_y = -15.54$   $T_y = -8.15$   $M_x = -5.13$   
 $V, Ed = -8.15$   $V_c, Rd, Red = 7789.03$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 36.65$   $V_c, Rd, Red = 7789.03$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -2230.11$   $T_x = 18.99$   $M_y = -8.41$   $T_y = -4.52$   $M_z = -2.56$   $M_x = -10.22$   
 Tensioni:  $\sigma_N = -183.40$   $\sigma_M = -37.39$   $\tau = 22.11$   $\sigma_{max} = -220.79$   
 Tensioni:  $\sigma_N = -183.40$   $\sigma_M = 7.87$   $\tau = 25.62$   $\tau_{max} = 25.62$   
 Tensioni:  $\sigma_N = -183.40$   $\sigma_M = -37.39$   $\tau = 22.11$   $\sigma_{ID, max} = 224.08$

Asta n. 4999 (-15011 -15077) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4618.16$   $M_y, Ed = -29.37$   $M_z, Ed = -1.14$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.04 + 0.00 = 0.21$   
 Verifica ZZ:  $0.17 + 0.03 + 0.00 = 0.20$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -4618.14$   $T_x = 63.96$   $M_y = -29.37$   $T_y = -3.04$   $M_z = -1.14$   $M_x = -13.32$   
 Tensioni:  $\sigma_N = -379.78$   $\sigma_M = -103.97$   $\tau = 28.83$   $\sigma_{max} = -483.75$   
 Tensioni:  $\sigma_N = -379.78$   $\sigma_M = 3.50$   $\tau = 40.64$   $\tau_{max} = 40.64$   
 Tensioni:  $\sigma_N = -379.78$   $\sigma_M = -103.97$   $\tau = 28.83$   $\sigma_{ID, max} = 486.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = -4358.25$   $T_x = 66.66$   $M_y = -21.84$   $T_y = -2.66$   $M_x = -11.77$   
 $V, Ed = -2.66$   $V_c, Rd, Red = 7701.67$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 66.66$   $V_c, Rd, Red = 7701.67$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -2244.84$   $T_x = 38.18$   $M_y = -10.95$   $T_y = -2.33$   $M_z = -2.56$   $M_x = -12.12$   
 Tensioni:  $\sigma_N = -184.61$   $\sigma_M = -46.03$   $\tau = 26.22$   $\sigma_{max} = -230.63$   
 Tensioni:  $\sigma_N = -184.61$   $\sigma_M = 7.85$   $\tau = 33.28$   $\tau_{max} = 33.28$   
 Tensioni:  $\sigma_N = -184.61$   $\sigma_M = -46.03$   $\tau = 26.22$   $\sigma_{ID, max} = 235.06$

Asta n. 4999 (-15077 -15147) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4637.56$   $M_y, Ed = -39.78$   $M_z, Ed = -1.19$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda^*_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda^*_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.05 + 0.00 = 0.22$



Verifica ZZ:  $0.17+0.04+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.02$  - Classe 3  
 Sollecitazioni:  $N=-4637.56$   $T_z=72.40$   $M_y=-34.04$   $T_y=7.98$   $M_z=-1.05$   $M_x=-18.57$   
 Tensioni:  $\sigma_N=-381.38$   $\sigma_M=-119.55$   $\tau=40.18$   $\sigma_{max}=-500.93$   
 Tensioni:  $\sigma_N=-381.38$   $\sigma_M=3.21$   $\tau=53.55$   $\tau_{max}=53.55$   
 Tensioni:  $\sigma_N=-381.38$   $\sigma_M=-119.55$   $\tau=40.18$   $\sigma_{ID,max}=505.74$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4375.90$   $T_z=75.24$   $M_y=-31.79$   $T_y=9.10$   $M_x=-16.73$   
 $V,Ed=9.10$   $Vc,Rd,Red=7636.51$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=75.24$   $Vc,Rd,Red=7636.51$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2257.22$   $T_z=46.58$   $M_y=-16.64$   $T_y=11.64$   $M_z=2.99$   $M_x=-13.48$   
 Tensioni:  $\sigma_N=-185.63$   $\sigma_M=-66.87$   $\tau=29.18$   $\sigma_{max}=-252.50$   
 Tensioni:  $\sigma_N=-185.63$   $\sigma_M=-9.16$   $\tau=37.79$   $\tau_{max}=37.79$   
 Tensioni:  $\sigma_N=-185.63$   $\sigma_M=-66.87$   $\tau=29.18$   $\sigma_{ID,max}=257.51$

Asta n. 4999 (-15147 -15211) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4654.40$   $M_y,Ed=-55.89$   $M_z,Ed=-0.91$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.07+0.00=0.24$   
 Verifica ZZ:  $0.17+0.05+0.00=0.23$
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=-4342.52$   $T_z=110.58$   $M_y=-50.30$   $T_y=-5.59$   $M_z=1.04$   $M_x=-23.01$   
 Tensioni:  $\sigma_N=-357.12$   $\sigma_M=-174.93$   $\tau=49.80$   $\sigma_{max}=-532.04$   
 Tensioni:  $\sigma_N=-357.12$   $\sigma_M=-3.19$   $\tau=70.23$   $\tau_{max}=70.23$   
 Tensioni:  $\sigma_N=-357.12$   $\sigma_M=-174.93$   $\tau=49.80$   $\sigma_{ID,max}=538.99$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-4390.06$   $T_z=122.59$   $M_y=-43.77$   $T_y=-7.10$   $M_x=-21.43$   
 $V,Ed=-7.10$   $Vc,Rd,Red=7574.64$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=122.59$   $Vc,Rd,Red=7574.64$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2274.16$   $T_z=74.09$   $M_y=-26.52$   $T_y=-21.41$   $M_z=-4.41$   $M_x=-14.70$   
 Tensioni:  $\sigma_N=-187.02$   $\sigma_M=-105.41$   $\tau=31.82$   $\sigma_{max}=-292.43$   
 Tensioni:  $\sigma_N=-187.02$   $\sigma_M=13.54$   $\tau=45.51$   $\tau_{max}=45.51$   
 Tensioni:  $\sigma_N=-187.02$   $\sigma_M=-105.41$   $\tau=31.82$   $\sigma_{ID,max}=297.58$

Asta n. 4999 (-15211 -15278) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4678.84$   $M_y,Ed=-74.24$   $M_z,Ed=-3.59$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.09+0.01=0.27$   
 Verifica ZZ:  $0.17+0.07+0.01=0.25$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4678.82$   $T_z=124.00$   $M_y=-74.24$   $T_y=-32.68$   $M_z=-3.59$   $M_x=-25.14$   
 Tensioni:  $\sigma_N=-384.77$   $\sigma_M=-265.22$   $\tau=54.40$   $\sigma_{max}=-649.99$   
 Tensioni:  $\sigma_N=-384.77$   $\sigma_M=11.02$   $\tau=77.30$   $\tau_{max}=77.30$   
 Tensioni:  $\sigma_N=-384.77$   $\sigma_M=-265.22$   $\tau=54.40$   $\sigma_{ID,max}=656.78$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.00$   
Sollecitazioni:  $N=-4410.94$   $T_x=127.86$   $M_y=-62.04$   $T_y=-28.66$   $M_x=-23.06$   
 $V,Ed=-28.66$   $Vc,Rd,Red=7553.20$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=127.86$   $Vc,Rd,Red=7553.20$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
Sollecitazioni:  $N=-2291.89$   $T_x=73.62$   $M_y=-37.52$   $T_y=-56.66$   $M_z=-9.38$   $M_x=-15.01$   
Tensioni:  $\sigma_N=-188.48$   $\sigma_M=-159.82$   $\tau=32.47$   $\sigma_{max}=-348.30$   
Tensioni:  $\sigma_N=-188.48$   $\sigma_M=28.78$   $\tau=46.08$   $\tau_{max}=46.08$   
Tensioni:  $\sigma_N=-188.48$   $\sigma_M=-159.82$   $\tau=32.47$   $\sigma_{ID,max}=352.81$

Asta n. 4999 (-15278 -15344) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4681.94$   $M_y,Ed=-29.07$   $M_z,Ed=0.97$   
Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.04+0.00=0.21$   
Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-3787.36$   $T_x=-42.82$   $M_y=-23.39$   $T_y=-23.16$   $M_z=1.47$   $M_x=10.95$   
Tensioni:  $\sigma_N=-311.46$   $\sigma_M=-84.73$   $\tau=23.70$   $\sigma_{max}=-396.19$   
Tensioni:  $\sigma_N=-311.46$   $\sigma_M=-4.52$   $\tau=31.61$   $\tau_{max}=31.61$   
Tensioni:  $\sigma_N=-311.46$   $\sigma_M=-84.23$   $\tau=26.70$   $\sigma_{ID,max}=398.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-4412.84$   $T_x=-57.42$   $M_y=-23.06$   $T_y=-3.32$   $M_x=14.61$   
 $V,Ed=-3.32$   $Vc,Rd,Red=7664.40$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-57.42$   $Vc,Rd,Red=7664.40$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-2298.47$   $T_x=-39.68$   $M_y=-16.70$   $T_y=-57.45$   $M_z=4.47$   $M_x=13.05$   
Tensioni:  $\sigma_N=-189.02$   $\sigma_M=-72.13$   $\tau=28.24$   $\sigma_{max}=-261.15$   
Tensioni:  $\sigma_N=-189.02$   $\sigma_M=-51.23$   $\tau=38.85$   $\tau_{max}=38.85$   
Tensioni:  $\sigma_N=-189.02$   $\sigma_M=-70.61$   $\tau=35.68$   $\sigma_{ID,max}=266.88$

Asta n. 4999 (-15344 -15410) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4616.05$   $M_y,Ed=-21.59$   $M_z,Ed=-0.17$   
Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.03+0.00=0.20$   
Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.07$  - Classe 3  
Sollecitazioni:  $N=-4299.75$   $T_x=-30.61$   $M_y=-16.01$   $T_y=5.69$   $M_z=1.01$   $M_x=14.32$   
Tensioni:  $\sigma_N=-353.60$   $\sigma_M=-58.01$   $\tau=31.00$   $\sigma_{max}=-411.61$   
Tensioni:  $\sigma_N=-353.60$   $\sigma_M=-3.10$   $\tau=36.65$   $\tau_{max}=36.65$   
Tensioni:  $\sigma_N=-353.60$   $\sigma_M=-58.01$   $\tau=31.00$   $\sigma_{ID,max}=415.10$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-4350.38$   $T_x=-48.25$   $M_y=-16.12$   $T_y=3.23$   $M_x=13.82$   
 $V,Ed=3.23$   $Vc,Rd,Red=7674.81$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-48.25$   $Vc,Rd,Red=7674.81$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.01$  - Classe 3

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Sollecitazioni:  $N=-2272.90$   $T_2=-34.07$   $M_y=-12.03$   $T_y=-18.85$   $M_z=-1.02$   $M_x=13.01$

Tensioni:  $\sigma_N=-186.92$   $\sigma_M=-44.49$   $\tau=28.16$   $\sigma_{max}=-231.41$

Tensioni:  $\sigma_N=-186.92$   $\sigma_M=3.13$   $\tau=34.45$   $\tau_{max}=34.45$

Tensioni:  $\sigma_N=-186.92$   $\sigma_M=-44.14$   $\tau=30.60$   $\sigma_{ID,max}=237.06$

Asta n. 4999 (-15410 -15476) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4585.07$   $M_y,Ed=-15.98$   $M_z,Ed=-0.19$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.17+0.02+0.00=0.19$

Verifica ZZ:  $0.17+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-4268.98$   $T_2=4.16$   $M_y=-15.29$   $T_y=-1.98$   $M_z=1.17$   $M_x=10.26$

Tensioni:  $\sigma_N=-351.07$   $\sigma_M=-56.08$   $\tau=22.21$   $\sigma_{max}=-407.15$

Tensioni:  $\sigma_N=-351.07$   $\sigma_M=3.58$   $\tau=22.98$   $\tau_{max}=22.98$

Tensioni:  $\sigma_N=-351.07$   $\sigma_M=-56.08$   $\tau=22.21$   $\sigma_{ID,max}=408.96$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $X_l=0.10$

Sollecitazioni:  $N=-2590.24$   $T_2=-16.37$   $M_y=-7.62$   $T_y=-3.28$   $M_x=1.83$

$V,Ed=-3.28$   $V_c,Rd,Red=7832.49$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-16.37$   $V_c,Rd,Red=7832.49$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=-2269.50$   $T_2=-14.14$   $M_y=-8.71$   $T_y=-7.98$   $M_z=2.95$   $M_x=11.74$

Tensioni:  $\sigma_N=-186.64$   $\sigma_M=-39.73$   $\tau=25.40$   $\sigma_{max}=-226.36$

Tensioni:  $\sigma_N=-186.64$   $\sigma_M=-9.05$   $\tau=28.01$   $\tau_{max}=28.01$

Tensioni:  $\sigma_N=-186.64$   $\sigma_M=-39.73$   $\tau=25.40$   $\sigma_{ID,max}=230.60$

Asta n. 4999 (-15476 -15542) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4570.43$   $M_y,Ed=-15.53$   $M_z,Ed=-0.56$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.17+0.02+0.00=0.19$

Verifica ZZ:  $0.17+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-4251.86$   $T_2=3.02$   $M_y=-15.68$   $T_y=-5.24$   $M_z=1.29$   $M_x=5.65$

Tensioni:  $\sigma_N=-349.66$   $\sigma_M=-57.80$   $\tau=12.23$   $\sigma_{max}=-407.46$

Tensioni:  $\sigma_N=-349.66$   $\sigma_M=-48.08$   $\tau=13.19$   $\tau_{max}=13.19$

Tensioni:  $\sigma_N=-349.66$   $\sigma_M=-57.80$   $\tau=12.23$   $\sigma_{ID,max}=408.01$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.04$

Sollecitazioni:  $N=-2021.11$   $T_2=-12.78$   $M_y=-4.31$   $T_y=-2.22$   $M_x=2.33$

$V,Ed=-2.22$   $V_c,Rd,Red=7825.94$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-12.78$   $V_c,Rd,Red=7825.94$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-2274.46$   $T_2=-10.05$   $M_y=-8.65$   $T_y=-4.44$   $M_z=2.80$   $M_x=10.59$

Tensioni:  $\sigma_N=-187.04$   $\sigma_M=-39.00$   $\tau=22.92$   $\sigma_{max}=-226.05$

Tensioni:  $\sigma_N=-187.04$   $\sigma_M=-8.57$   $\tau=24.78$   $\tau_{max}=24.78$

Tensioni:  $\sigma_N=-187.04$   $\sigma_M=-39.00$   $\tau=22.92$   $\sigma_{ID,max}=229.51$

Asta n. 4999 (-15542 -15608) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

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Sollecitazioni: N,Ed=-4575.95 My,Ed=-17.94 Mz,Ed=-1.28  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4575.93 Tz=22.97 My=-17.94 Ty=-8.83 Mz=-1.28 Mx=-2.06  
Tensioni:  $\sigma_N=-376.31$   $\sigma_M=-65.50$   $\tau=4.47$   $\sigma_{max}=-441.81$   
Tensioni:  $\sigma_N=-376.31$   $\sigma_M=3.92$   $\tau=8.71$   $\tau_{max}=8.71$   
Tensioni:  $\sigma_N=-376.31$   $\sigma_M=-65.50$   $\tau=4.47$   $\sigma_{ID,max}=441.88$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU Xl=0.00  
Sollecitazioni: N=-4255.38 Tz=25.05 My=-16.75 Ty=-8.86  
V,Ed=-8.86 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00
- Verifica a taglio dir. Z [4.2.16]  
V,Ed=25.05 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2280.56 Tz=10.82 My=-9.04 Ty=-4.44 Mz=-2.84 Mx=-9.78  
Tensioni:  $\sigma_N=-187.55$   $\sigma_M=-40.50$   $\tau=21.16$   $\sigma_{max}=-228.04$   
Tensioni:  $\sigma_N=-187.55$   $\sigma_M=8.71$   $\tau=23.16$   $\tau_{max}=23.16$   
Tensioni:  $\sigma_N=-187.55$   $\sigma_M=-40.50$   $\tau=21.16$   $\sigma_{ID,max}=230.97$

Asta n. 4999 (-15608 -15674) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4597.73 My,Ed=-20.94 Mz,Ed=-1.33  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463100.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463100.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.19
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4597.71 Tz=16.61 My=-20.94 Ty=-4.86 Mz=-1.33 Mx=-8.33  
Tensioni:  $\sigma_N=-378.10$   $\sigma_M=-75.89$   $\tau=18.02$   $\sigma_{max}=-453.99$   
Tensioni:  $\sigma_N=-378.10$   $\sigma_M=4.08$   $\tau=21.08$   $\tau_{max}=21.08$   
Tensioni:  $\sigma_N=-378.10$   $\sigma_M=-75.89$   $\tau=18.02$   $\sigma_{ID,max}=455.06$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-2906.90 Tz=27.30 My=-7.74 Ty=-5.51 Mx=4.82  
V,Ed=-5.51 Vc,Rd,Red=7793.22 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=27.30 Vc,Rd,Red=7793.22 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2287.78 Tz=14.35 My=-9.35 Ty=-2.22 Mz=-2.84 Mx=-11.37  
Tensioni:  $\sigma_N=-188.14$   $\sigma_M=-41.56$   $\tau=24.60$   $\sigma_{max}=-229.70$   
Tensioni:  $\sigma_N=-188.14$   $\sigma_M=8.72$   $\tau=27.25$   $\tau_{max}=27.25$   
Tensioni:  $\sigma_N=-188.14$   $\sigma_M=-41.56$   $\tau=24.60$   $\sigma_{ID,max}=233.62$

Asta n. 4999 (-15674 -15740) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4599.40 My,Ed=-27.29 Mz,Ed=-1.30  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.03+0.00=0.20  
Verifica ZZ: 0.17+0.03+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-4599.39$   $T_x=48.78$   $M_y=-24.70$   $T_y=5.74$   $M_z=-1.04$   $M_x=-15.12$   
 Tensioni:  $\sigma_N=-378.24$   $\sigma_M=-87.73$   $\tau=32.72$   $\sigma_{max}=-465.97$   
 Tensioni:  $\sigma_N=-378.24$   $\sigma_M=3.20$   $\tau=41.73$   $\tau_{max}=41.73$   
 Tensioni:  $\sigma_N=-378.24$   $\sigma_M=-87.73$   $\tau=32.72$   $\sigma_{ID,max}=469.41$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.01$   
 Sollecitazioni:  $N=-2919.35$   $T_x=56.04$   $M_y=-12.92$   $T_y=7.70$   $M_x=1.88$   
 $V,Ed=7.70$   $Vc,Rd,Red=7831.81$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=56.04$   $Vc,Rd,Red=7831.81$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2291.21$   $T_x=35.77$   $M_y=-10.27$   $T_y=6.76$   $M_z=-2.85$   $M_x=-13.14$   
 Tensioni:  $\sigma_N=-188.42$   $\sigma_M=-44.72$   $\tau=28.44$   $\sigma_{max}=-233.14$   
 Tensioni:  $\sigma_N=-188.42$   $\sigma_M=8.75$   $\tau=35.04$   $\tau_{max}=35.04$   
 Tensioni:  $\sigma_N=-188.42$   $\sigma_M=-44.72$   $\tau=28.44$   $\sigma_{ID,max}=238.29$

Asta n. 4999 (-15740 -15806) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4591.36$   $M_y,Ed=-33.49$   $M_z,Ed=-0.58$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.04+0.00=0.21$   
 Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4262.49$   $T_x=41.02$   $M_y=-29.94$   $M_z=1.00$   $M_x=-18.87$   
 Tensioni:  $\sigma_N=-350.53$   $\sigma_M=-105.42$   $\tau=40.84$   $\sigma_{max}=-455.96$   
 Tensioni:  $\sigma_N=-350.53$   $\sigma_M=-3.07$   $\tau=48.41$   $\tau_{max}=48.41$   
 Tensioni:  $\sigma_N=-350.53$   $\sigma_M=-105.42$   $\tau=40.84$   $\sigma_{ID,max}=461.41$

- Verifica a taglio dir. Z [4.2.16] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2920.40$   $T_x=63.80$   $M_y=-20.67$   
 $V,Ed=63.80$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2294.15$   $T_x=40.56$   $M_y=-14.52$   $T_y=-6.14$   $M_z=3.30$   $M_x=-14.39$   
 Tensioni:  $\sigma_N=-188.66$   $\sigma_M=-60.73$   $\tau=31.13$   $\sigma_{max}=-249.40$   
 Tensioni:  $\sigma_N=-188.66$   $\sigma_M=-10.12$   $\tau=38.63$   $\tau_{max}=38.63$   
 Tensioni:  $\sigma_N=-188.66$   $\sigma_M=-60.73$   $\tau=31.13$   $\sigma_{ID,max}=255.16$

Asta n. 4999 (-15806 -15872) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4590.18$   $M_y,Ed=-45.54$   $M_z,Ed=-2.42$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463100.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463100.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.06+0.00=0.23$   
 Verifica ZZ:  $0.17+0.04+0.00=0.22$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-4590.16$   $T_x=89.47$   $M_y=-45.54$   $T_y=-22.29$   $M_z=-2.42$   $M_x=-25.13$   
 Tensioni:  $\sigma_N=-377.48$   $\sigma_M=-163.41$   $\tau=54.39$   $\sigma_{max}=-540.89$   
 Tensioni:  $\sigma_N=-377.48$   $\sigma_M=7.41$   $\tau=70.92$   $\tau_{max}=70.92$   
 Tensioni:  $\sigma_N=-377.48$   $\sigma_M=-163.41$   $\tau=54.39$   $\sigma_{ID,max}=549.03$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-2928.24$   $T_x=98.12$   $M_y=-31.03$   $T_y=-13.67$   $M_x=-3.19$   
 $V,Ed=-13.67$   $Vc,Rd,Red=7814.68$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=98.12 Vc,Rd,Red=7814.68 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2299.67 T<sub>z</sub>=67.49 M<sub>y</sub>=-23.48 T<sub>y</sub>=-17.91 M<sub>z</sub>=-4.56 M<sub>x</sub>=-15.70  
Tensioni:  $\sigma_N$ =-189.12  $\sigma_M$ =-95.54  $\tau$ =33.98  $\sigma_{max}$ =-284.66  
Tensioni:  $\sigma_N$ =-189.12  $\sigma_M$ =13.99  $\tau$ =46.45  $\tau_{max}$ =46.45  
Tensioni:  $\sigma_N$ =-189.12  $\sigma_M$ =-95.54  $\tau$ =33.98  $\sigma_{ID,max}$ =290.68

Asta n. 4999 (-15872 -15939) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4596.71 My,Ed=-59.69 Mz,Ed=-5.35  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.07+0.01=0.25  
Verifica ZZ: 0.17+0.06+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4596.69 T<sub>z</sub>=96.97 M<sub>y</sub>=-59.69 T<sub>y</sub>=-36.92 M<sub>z</sub>=-5.35 M<sub>x</sub>=-26.66  
Tensioni:  $\sigma_N$ =-378.02  $\sigma_M$ =-221.66  $\tau$ =57.69  $\sigma_{max}$ =-599.67  
Tensioni:  $\sigma_N$ =-378.02  $\sigma_M$ =16.42  $\tau$ =75.60  $\tau_{max}$ =75.60  
Tensioni:  $\sigma_N$ =-378.02  $\sigma_M$ =-221.66  $\tau$ =57.69  $\sigma_{ID,max}$ =607.94

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
Sollecitazioni: N=-4318.65 T<sub>z</sub>=101.32 M<sub>y</sub>=-50.26 T<sub>y</sub>=-38.38 M<sub>z</sub>=-24.28  
V,Ed=-38.38 Vc,Rd,Red=7537.08 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=101.32 Vc,Rd,Red=7537.08 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2306.21 T<sub>z</sub>=69.88 M<sub>y</sub>=-33.78 T<sub>y</sub>=-35.34 M<sub>z</sub>=-7.54 M<sub>x</sub>=-15.93  
Tensioni:  $\sigma_N$ =-189.66  $\sigma_M$ =-140.80  $\tau$ =34.48  $\sigma_{max}$ =-330.46  
Tensioni:  $\sigma_N$ =-189.66  $\sigma_M$ =23.11  $\tau$ =47.39  $\tau_{max}$ =47.39  
Tensioni:  $\sigma_N$ =-189.66  $\sigma_M$ =-140.80  $\tau$ =34.48  $\sigma_{ID,max}$ =335.81

Asta n. 4999 (-15939 -16005) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4503.46 My,Ed=-50.23 Mz,Ed=5.77  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.06+0.01=0.24  
Verifica ZZ: 0.17+0.05+0.01=0.22

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4503.46 T<sub>z</sub>=-76.44 M<sub>y</sub>=-50.23 T<sub>y</sub>=-62.09 M<sub>z</sub>=5.77 M<sub>x</sub>=6.49  
Tensioni:  $\sigma_N$ =-370.35  $\sigma_M$ =-190.81  $\tau$ =14.04  $\sigma_{max}$ =-561.16  
Tensioni:  $\sigma_N$ =-370.35  $\sigma_M$ =-17.69  $\tau$ =28.17  $\tau_{max}$ =28.17  
Tensioni:  $\sigma_N$ =-370.35  $\sigma_M$ =-190.81  $\tau$ =14.04  $\sigma_{ID,max}$ =561.69

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-4503.44 T<sub>z</sub>=-77.70 M<sub>y</sub>=-42.70 T<sub>y</sub>=-62.09 M<sub>z</sub>=6.49  
V,Ed=-62.09 Vc,Rd,Red=7771.24 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-77.70 Vc,Rd,Red=7771.24 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2270.96 T<sub>z</sub>=-51.00 M<sub>y</sub>=-22.85 T<sub>y</sub>=-71.19 M<sub>z</sub>=5.47 M<sub>x</sub>=10.08  
Tensioni:  $\sigma_N$ =-186.76  $\sigma_M$ =-96.51  $\tau$ =21.82  $\sigma_{max}$ =-283.27  
Tensioni:  $\sigma_N$ =-186.76  $\sigma_M$ =-70.07  $\tau$ =34.98  $\tau_{max}$ =34.98  
Tensioni:  $\sigma_N$ =-186.76  $\sigma_M$ =-94.65  $\tau$ =31.04  $\sigma_{ID,max}$ =286.50

Asta n. 4999 (-16005 -16071) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-4434.37 My,Ed=-39.18 Mz,Ed=-0.90  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.05+0.00=0.21

Verifica ZZ: 0.16+0.04+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-4112.51 Tz=-49.74 My=-35.19 Ty=-7.62 Mz=1.31 Mx=5.72

Tensioni:  $\sigma_N=-338.20$   $\sigma_M=-124.36$   $\tau=12.38$   $\sigma_{max}=-462.56$

Tensioni:  $\sigma_N=-338.20$   $\sigma_M=-4.00$   $\tau=21.57$   $\tau_{max}=21.57$

Tensioni:  $\sigma_N=-338.20$   $\sigma_M=-124.36$   $\tau=12.38$   $\sigma_{ID,max}=463.06$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10

Sollecitazioni: N=-4434.35 Tz=-69.00 My=-32.50 Ty=-13.35 Mx=4.80

V,Ed=-13.35 Vc,Rd,Red=7793.40 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-69.00 Vc,Rd,Red=7793.40 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2247.24 Tz=-44.97 My=-17.21 Ty=-21.24 Mz=1.80 Mx=9.76

Tensioni:  $\sigma_N=-184.81$   $\sigma_M=-64.80$   $\tau=21.13$   $\sigma_{max}=-249.61$

Tensioni:  $\sigma_N=-184.81$   $\sigma_M=-5.53$   $\tau=29.44$   $\tau_{max}=29.44$

Tensioni:  $\sigma_N=-184.81$   $\sigma_M=-64.19$   $\tau=23.88$   $\sigma_{ID,max}=252.41$

Asta n. 4999 (-16071 -16137) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-4382.88 My,Ed=-30.26 Mz,Ed=-0.97

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.16+0.04+0.00=0.20

Verifica ZZ: 0.16+0.03+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-4064.36 Tz=-15.92 My=-28.81 Ty=-5.78 Mz=1.03 Mx=1.52

Tensioni:  $\sigma_N=-334.24$   $\sigma_M=-101.69$   $\tau=3.28$   $\sigma_{max}=-435.93$

Tensioni:  $\sigma_N=-334.24$   $\sigma_M=-3.17$   $\tau=6.22$   $\tau_{max}=6.22$

Tensioni:  $\sigma_N=-334.24$   $\sigma_M=-101.69$   $\tau=3.28$   $\sigma_{ID,max}=435.97$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU Xl=0.04

Sollecitazioni: N=-2479.60 Tz=-29.55 My=-15.78 Ty=-4.66 Mx=-3.01

V,Ed=-4.66 Vc,Rd,Red=7816.96 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-29.55 Vc,Rd,Red=7816.96 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3

Sollecitazioni: N=-2235.69 Tz=-21.84 My=-13.63 Ty=-7.44 Mz=2.73 Mx=-9.24

Tensioni:  $\sigma_N=-183.86$   $\sigma_M=-55.73$   $\tau=20.00$   $\sigma_{max}=-239.59$

Tensioni:  $\sigma_N=-183.86$   $\sigma_M=8.37$   $\tau=24.03$   $\tau_{max}=24.03$

Tensioni:  $\sigma_N=-183.86$   $\sigma_M=-55.73$   $\tau=20.00$   $\sigma_{ID,max}=242.08$

Asta n. 4999 (-16137 -16203) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-4344.48 My,Ed=-26.40 Mz,Ed=-1.17

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.03+0.00=0.19  
 Verifica ZZ: 0.16+0.03+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.07 - Classe 3  
 Sollecitazioni: N=-4344.47 T<sub>z</sub>=-24.62 M<sub>y</sub>=-24.68 T<sub>y</sub>=-5.61 M<sub>z</sub>=-1.02 M<sub>x</sub>=-4.91  
 Tensioni:  $\sigma_N=-357.27$   $\sigma_M=-87.59$   $\tau=10.62$   $\sigma_{max}=-444.87$   
 Tensioni:  $\sigma_N=-357.27$   $\sigma_M=-3.14$   $\tau=15.17$   $\tau_{max}=15.17$   
 Tensioni:  $\sigma_N=-357.27$   $\sigma_M=-87.59$   $\tau=10.62$   $\sigma_{ID,max}=445.25$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-4076.28 T<sub>z</sub>=-24.75 M<sub>y</sub>=-22.47 T<sub>y</sub>=-5.49 M<sub>z</sub>=-4.21  
 V,Ed=-5.49 Vc,Rd,Red=7801.17 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-24.75 Vc,Rd,Red=7801.17 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2226.79 T<sub>z</sub>=-15.90 M<sub>y</sub>=-12.32 T<sub>y</sub>=-3.31 M<sub>z</sub>=2.88 M<sub>x</sub>=-10.48  
 Tensioni:  $\sigma_N=-183.12$   $\sigma_M=-51.80$   $\tau=22.69$   $\sigma_{max}=-234.93$   
 Tensioni:  $\sigma_N=-183.12$   $\sigma_M=8.84$   $\tau=25.62$   $\tau_{max}=25.62$   
 Tensioni:  $\sigma_N=-183.12$   $\sigma_M=-51.80$   $\tau=22.69$   $\sigma_{ID,max}=238.19$

Asta n. 4999 (-16203 -16269) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4312.19 My,Ed=-23.35 Mz,Ed=-1.39  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.03+0.00=0.19  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.04 - Classe 3  
 Sollecitazioni: N=-4312.18 T<sub>z</sub>=-13.15 M<sub>y</sub>=-22.89 T<sub>y</sub>=-5.54 M<sub>z</sub>=-1.05 M<sub>x</sub>=-10.85  
 Tensioni:  $\sigma_N=-354.62$   $\sigma_M=-81.56$   $\tau=23.49$   $\sigma_{max}=-436.18$   
 Tensioni:  $\sigma_N=-354.62$   $\sigma_M=-3.21$   $\tau=25.92$   $\tau_{max}=25.92$   
 Tensioni:  $\sigma_N=-354.62$   $\sigma_M=-81.56$   $\tau=23.49$   $\sigma_{ID,max}=438.07$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.03  
 Sollecitazioni: N=-4312.18 T<sub>z</sub>=-13.04 M<sub>y</sub>=-23.01 T<sub>y</sub>=-5.54 M<sub>z</sub>=-10.85  
 V,Ed=-5.54 Vc,Rd,Red=7713.79 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-13.04 Vc,Rd,Red=7713.79 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2215.55 T<sub>z</sub>=-11.95 M<sub>y</sub>=-11.20 T<sub>y</sub>=-2.79 M<sub>z</sub>=-2.95 M<sub>x</sub>=-11.62  
 Tensioni:  $\sigma_N=-182.20$   $\sigma_M=-48.23$   $\tau=25.14$   $\sigma_{max}=-230.43$   
 Tensioni:  $\sigma_N=-182.20$   $\sigma_M=-9.05$   $\tau=27.35$   $\tau_{max}=27.35$   
 Tensioni:  $\sigma_N=-182.20$   $\sigma_M=-48.23$   $\tau=25.14$   $\sigma_{ID,max}=234.51$

Asta n. 4999 (-16269 -16335) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4283.19 My,Ed=-21.28 Mz,Ed=-1.83  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.03+0.00=0.19  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4283.19 T<sub>z</sub>=-18.23 M<sub>y</sub>=-21.28 T<sub>y</sub>=-6.95 M<sub>z</sub>=-1.15 M<sub>x</sub>=-16.41  
 Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-76.43$   $\tau=35.50$   $\sigma_{max}=-428.66$



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Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-3.54$   $\tau=38.87$   $\tau_{max}=38.87$   
Tensioni:  $\sigma_N=-352.24$   $\sigma_M=-76.43$   $\tau=35.50$   $\sigma_{ID,max}=433.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.10$   
Sollecitazioni:  $N=5250.10$   $T_z=-26.30$   $M_y=-17.70$   $T_y=-2.62$   $M_x=-16.69$   
 $V,Ed=-2.62$   $V_c,Rd,Red=7636.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-26.30$   $V_c,Rd,Red=7636.99$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2206.85$   $T_z=-15.82$   $M_y=-9.60$   $T_y=-5.88$   $M_z=-3.03$   $M_x=-12.72$   
Tensioni:  $\sigma_N=-181.48$   $\sigma_M=-43.01$   $\tau=27.52$   $\sigma_{max}=-224.49$   
Tensioni:  $\sigma_N=-181.48$   $\sigma_M=-9.28$   $\tau=30.44$   $\tau_{max}=30.44$   
Tensioni:  $\sigma_N=-181.48$   $\sigma_M=-43.01$   $\tau=27.52$   $\sigma_{ID,max}=229.50$

Asta n. 4999 (-16335 -16401) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4264.92$   $M_y,Ed=-18.38$   $M_z,Ed=-2.59$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.02+0.00=0.18$   
Verifica ZZ:  $0.16+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.08$  - Classe 3  
Sollecitazioni:  $N=5266.66$   $T_z=-24.36$   $M_y=-14.32$   $T_y=-6.90$   $M_z=-1.04$   $M_x=-20.04$   
Tensioni:  $\sigma_N=433.11$   $\sigma_M=52.35$   $\tau=43.37$   $\sigma_{max}=485.46$   
Tensioni:  $\sigma_N=433.11$   $\sigma_M=-3.19$   $\tau=47.87$   $\tau_{max}=47.87$   
Tensioni:  $\sigma_N=433.11$   $\sigma_M=52.35$   $\tau=43.37$   $\sigma_{ID,max}=491.24$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-2870.98$   $T_z=26.57$   $M_y=-10.36$   $T_y=-5.80$   $M_x=1.36$   
 $V,Ed=-5.80$   $V_c,Rd,Red=7838.68$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=26.57$   $V_c,Rd,Red=7838.68$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
Sollecitazioni:  $N=-2202.33$   $T_z=-24.19$   $M_y=-8.19$   $T_y=-7.27$   $M_z=-4.04$   $M_x=-13.60$   
Tensioni:  $\sigma_N=-181.11$   $\sigma_M=-41.69$   $\tau=29.43$   $\sigma_{max}=-222.80$   
Tensioni:  $\sigma_N=-181.11$   $\sigma_M=-12.39$   $\tau=33.89$   $\tau_{max}=33.89$   
Tensioni:  $\sigma_N=-181.11$   $\sigma_M=-41.69$   $\tau=29.43$   $\sigma_{ID,max}=228.56$

Asta n. 4999 (-16401 -16467) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4261.87$   $M_y,Ed=-15.99$   $M_z,Ed=-4.40$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,  $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,  $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.02+0.01=0.18$   
Verifica ZZ:  $0.16+0.02+0.01=0.18$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.01$  - Classe 3  
Sollecitazioni:  $N=5276.87$   $T_z=-45.01$   $M_y=-11.55$   $T_y=-16.90$   $M_z=-1.06$   $M_x=-22.05$   
Tensioni:  $\sigma_N=433.95$   $\sigma_M=42.95$   $\tau=47.71$   $\sigma_{max}=476.90$   
Tensioni:  $\sigma_N=433.95$   $\sigma_M=-3.24$   $\tau=56.03$   $\tau_{max}=56.03$   
Tensioni:  $\sigma_N=433.95$   $\sigma_M=42.59$   $\tau=49.90$   $\sigma_{ID,max}=484.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
Sollecitazioni:  $N=5276.87$   $T_z=-44.90$   $M_y=-11.95$   $T_y=-16.90$   $M_x=-22.05$   
 $V,Ed=-16.90$   $V_c,Rd,Red=7566.50$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-44.90 Vc,Rd,Red=7566.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2201.04 T<sub>z</sub>=-28.46 M<sub>y</sub>=-10.91 T<sub>y</sub>=-10.74 M<sub>z</sub>=-4.83 M<sub>x</sub>=-14.33  
Tensioni: σ<sub>N</sub>=-181.01 σ<sub>M</sub>=-53.66 τ=31.02 σ<sub>max</sub>=-234.67  
Tensioni: σ<sub>N</sub>=-181.01 σ<sub>M</sub>=-14.82 τ=36.28 τ<sub>max</sub>=36.28  
Tensioni: σ<sub>N</sub>=-181.01 σ<sub>M</sub>=-53.66 τ=31.02 σ<sub>ID,max</sub>=240.74

Asta n. 4999 (-16467 -16533) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4284.74 M<sub>y</sub>,Ed=-14.25 M<sub>z</sub>,Ed=-8.02  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.01=0.19  
Verifica ZZ: 0.16+0.01+0.01=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5294.36 T<sub>z</sub>=-29.94 M<sub>y</sub>=-5.34 T<sub>y</sub>=-28.28 M<sub>z</sub>=-2.08 M<sub>x</sub>=-23.52  
Tensioni: σ<sub>N</sub>=435.39 σ<sub>M</sub>=25.26 τ=50.89 σ<sub>max</sub>=460.65  
Tensioni: σ<sub>N</sub>=435.39 σ<sub>M</sub>=-6.37 τ=56.42 τ<sub>max</sub>=56.42  
Tensioni: σ<sub>N</sub>=435.39 σ<sub>M</sub>=24.55 τ=54.55 σ<sub>ID,max</sub>=469.55

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 67 SLU Xl=0.00  
Sollecitazioni: N=-2152.35 T<sub>z</sub>=-18.41 M<sub>y</sub>=-10.03 T<sub>y</sub>=-24.36 M<sub>z</sub>=-10.68  
V,Ed=-24.36 Vc,Rd,Red=7716.04 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-18.41 Vc,Rd,Red=7716.04 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2206.61 T<sub>z</sub>=51.27 M<sub>y</sub>=-17.33 T<sub>y</sub>=-19.92 M<sub>z</sub>=-6.14 M<sub>x</sub>=-14.63  
Tensioni: σ<sub>N</sub>=-181.47 σ<sub>M</sub>=-79.97 τ=31.67 σ<sub>max</sub>=-261.44  
Tensioni: σ<sub>N</sub>=-181.47 σ<sub>M</sub>=18.82 τ=41.14 τ<sub>max</sub>=41.14  
Tensioni: σ<sub>N</sub>=-181.47 σ<sub>M</sub>=-79.97 τ=31.67 σ<sub>ID,max</sub>=267.13

Asta n. 4999 (-16533 -16599) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4333.05 M<sub>y</sub>,Ed=-14.84 M<sub>z</sub>,Ed=-13.30  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
α<sub>my</sub>, α<sub>mz</sub>, α<sub>LT</sub>=0.95, 0.95, 0.95  
λ<sub>y</sub>=3.15 Ncr,y=25463400.00 λ<sub>y</sub>'=0.03 Curva a: Φ<sub>y</sub>=0.00 χ<sub>y</sub>=1.00  
λ<sub>z</sub>=3.15 Ncr,z=25463400.00 λ<sub>z</sub>'=0.03 Curva a: Φ<sub>z</sub>=0.00 χ<sub>z</sub>=1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.02=0.20  
Verifica ZZ: 0.16+0.01+0.02=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5347.28 T<sub>z</sub>=-60.93 M<sub>y</sub>=6.06 T<sub>y</sub>=-44.65 M<sub>z</sub>=-8.65 M<sub>x</sub>=-23.16  
Tensioni: σ<sub>N</sub>=439.74 σ<sub>M</sub>=50.12 τ=50.12 σ<sub>max</sub>=489.86  
Tensioni: σ<sub>N</sub>=439.74 σ<sub>M</sub>=-26.52 τ=61.38 τ<sub>max</sub>=61.38  
Tensioni: σ<sub>N</sub>=439.74 σ<sub>M</sub>=50.12 τ=50.12 σ<sub>ID,max</sub>=497.50

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.01  
Sollecitazioni: N=5347.26 T<sub>z</sub>=-59.78 T<sub>y</sub>=-44.65 M<sub>z</sub>=-4.69 M<sub>x</sub>=-23.16  
V,Ed=-44.65 Vc,Rd,Red=7551.85 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-59.78 Vc,Rd,Red=7551.85 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2220.56 T<sub>z</sub>=52.79 M<sub>y</sub>=-25.10 T<sub>y</sub>=-36.98 M<sub>z</sub>=-7.63 M<sub>x</sub>=-14.64  
Tensioni: σ<sub>N</sub>=-182.61 σ<sub>M</sub>=-111.55 τ=31.29 σ<sub>max</sub>=-294.17  
Tensioni: σ<sub>N</sub>=-182.61 σ<sub>M</sub>=23.41 τ=41.04 τ<sub>max</sub>=41.04  
Tensioni: σ<sub>N</sub>=-182.61 σ<sub>M</sub>=-111.55 τ=31.29 σ<sub>ID,max</sub>=299.12

Asta n. 4999 (-16599 -16566) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4333.01 My,Ed=-15.27 Mz,Ed=-12.57  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.02=0.20  
 Verifica ZZ: 0.16+0.01+0.02=0.19

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=5346.63 Tz=61.07 My=6.10 Ty=43.70 Mz=-8.53 Mx=22.49  
 Tensioni:  $\sigma_N=439.69$   $\sigma_M=49.85$   $\tau=48.66$   $\sigma_{max}=489.54$   
 Tensioni:  $\sigma_N=439.69$   $\sigma_M=-26.16$   $\tau=59.94$   $\tau_{max}=59.94$   
 Tensioni:  $\sigma_N=439.69$   $\sigma_M=49.85$   $\tau=48.66$   $\sigma_{ID,max}=496.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.09  
 Sollecitazioni: N=5346.61 Tz=59.93 Ty=43.70 Mz=-4.65 Mx=22.49  
 V,Ed=43.70 Vc,Rd,Red=7560.73 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=59.93 Vc,Rd,Red=7560.73 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2227.90 Tz=-49.62 My=-23.15 Ty=67.24 Mz=-6.90 Mx=15.05  
 Tensioni:  $\sigma_N=-183.22$   $\sigma_M=-102.40$   $\tau=32.56$   $\sigma_{max}=-285.61$   
 Tensioni:  $\sigma_N=-183.22$   $\sigma_M=70.99$   $\tau=44.99$   $\tau_{max}=44.99$   
 Tensioni:  $\sigma_N=-183.22$   $\sigma_M=-102.40$   $\tau=32.56$   $\sigma_{ID,max}=291.13$

Asta n. 4999 (-16566 -16500) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4286.47 My,Ed=-14.48 Mz,Ed=-7.80  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.01=0.19  
 Verifica ZZ: 0.16+0.01+0.01=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=5293.95 Tz=29.78 My=-5.29 Ty=28.17 Mz=-2.06 Mx=22.80  
 Tensioni:  $\sigma_N=435.36$   $\sigma_M=25.04$   $\tau=49.34$   $\sigma_{max}=460.39$   
 Tensioni:  $\sigma_N=435.36$   $\sigma_M=-6.32$   $\tau=54.84$   $\tau_{max}=54.84$   
 Tensioni:  $\sigma_N=435.36$   $\sigma_M=24.34$   $\tau=52.99$   $\sigma_{ID,max}=468.77$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.07  
 Sollecitazioni: N=-1934.38 Tz=-4.47 My=-10.29 Ty=24.23 Mx=10.23  
 V,Ed=24.23 Vc,Rd,Red=7721.95 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-4.47 Vc,Rd,Red=7721.95 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2219.80 Tz=-46.20 My=-15.96 Ty=30.71 Mz=-4.97 Mx=15.14  
 Tensioni:  $\sigma_N=-182.55$   $\sigma_M=-71.31$   $\tau=32.75$   $\sigma_{max}=-253.86$   
 Tensioni:  $\sigma_N=-182.55$   $\sigma_M=15.24$   $\tau=41.29$   $\tau_{max}=41.29$   
 Tensioni:  $\sigma_N=-182.55$   $\sigma_M=-71.31$   $\tau=32.75$   $\sigma_{ID,max}=260.12$

Asta n. 4999 (-16500 -16434) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4264.88 My,Ed=-16.14 Mz,Ed=-4.34  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

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Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.01=0.18  
Verifica ZZ: 0.16+0.02+0.01=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.09 - Classe 3  
Sollecitazioni: N=5276.83 T<sub>z</sub>=45.48 M<sub>y</sub>=-11.54 T<sub>y</sub>=16.96 M<sub>z</sub>=-1.04 M<sub>x</sub>=21.40  
Tensioni:  $\sigma_N=433.95$   $\sigma_M=42.84$   $\tau=46.32$   $\sigma_{max}=476.79$   
Tensioni:  $\sigma_N=433.95$   $\sigma_M=-3.18$   $\tau=54.72$   $\tau_{max}=54.72$   
Tensioni:  $\sigma_N=433.95$   $\sigma_M=42.49$   $\tau=48.52$   $\sigma_{ID,max}=483.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.10  
Sollecitazioni: N=5276.83 T<sub>z</sub>=45.37 M<sub>y</sub>=-11.94 T<sub>y</sub>=16.96 M<sub>z</sub>=21.40  
V,Ed=16.96 Vc,Rd,Red=7574.96 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=45.37 Vc,Rd,Red=7574.96 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2221.22 T<sub>z</sub>=25.95 M<sub>y</sub>=-10.28 T<sub>y</sub>=12.18 M<sub>z</sub>=-4.50 M<sub>x</sub>=14.73  
Tensioni:  $\sigma_N=-182.67$   $\sigma_M=-50.34$   $\tau=31.87$   $\sigma_{max}=-233.01$   
Tensioni:  $\sigma_N=-182.67$   $\sigma_M=-13.79$   $\tau=36.67$   $\tau_{max}=36.67$   
Tensioni:  $\sigma_N=-182.67$   $\sigma_M=-50.34$   $\tau=31.87$   $\sigma_{ID,max}=239.46$

Asta n. 4999 (-16434 -16368) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4269.21 M<sub>y</sub>,Ed=-18.48 M<sub>z</sub>,Ed=-2.57  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.02+0.00=0.18  
Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.02 - Classe 3  
Sollecitazioni: N=5266.92 T<sub>z</sub>=24.65 M<sub>y</sub>=-14.32 T<sub>y</sub>=6.96 M<sub>z</sub>=-1.02 M<sub>x</sub>=19.37  
Tensioni:  $\sigma_N=433.13$   $\sigma_M=52.25$   $\tau=41.92$   $\sigma_{max}=485.39$   
Tensioni:  $\sigma_N=433.13$   $\sigma_M=-3.12$   $\tau=46.47$   $\tau_{max}=46.47$   
Tensioni:  $\sigma_N=433.13$   $\sigma_M=52.25$   $\tau=41.92$   $\sigma_{ID,max}=490.79$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.06  
Sollecitazioni: N=-3123.48 T<sub>z</sub>=27.19 M<sub>y</sub>=-15.78 T<sub>y</sub>=10.58 M<sub>z</sub>=27.52  
V,Ed=10.58 Vc,Rd,Red=7494.45 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=27.19 Vc,Rd,Red=7494.45 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2229.20 T<sub>z</sub>=21.13 M<sub>y</sub>=-8.24 T<sub>y</sub>=5.08 M<sub>z</sub>=-3.98 M<sub>x</sub>=13.87  
Tensioni:  $\sigma_N=-183.32$   $\sigma_M=-41.65$   $\tau=30.01$   $\sigma_{max}=-224.97$   
Tensioni:  $\sigma_N=-183.32$   $\sigma_M=-12.22$   $\tau=33.91$   $\tau_{max}=33.91$   
Tensioni:  $\sigma_N=-183.32$   $\sigma_M=-41.65$   $\tau=30.01$   $\sigma_{ID,max}=230.90$

Asta n. 4999 (-16368 -16302) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4288.77 M<sub>y</sub>,Ed=-21.32 M<sub>z</sub>,Ed=-1.85  
Resistenze: Nc,Rd=27215.20 M<sub>y,c</sub>,Rd=656.79 M<sub>z,c</sub>,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.03+0.00=0.19  
Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=-4288.77 T<sub>z</sub>=17.81 M<sub>y</sub>=-21.32 T<sub>y</sub>=6.41 M<sub>z</sub>=-1.23 M<sub>x</sub>=15.79  
Tensioni:  $\sigma_N=-352.69$   $\sigma_M=-76.82$   $\tau=34.17$   $\sigma_{max}=-429.51$   
Tensioni:  $\sigma_N=-352.69$   $\sigma_M=-3.76$   $\tau=37.46$   $\tau_{max}=37.46$

Tensioni:  $\sigma_N=-352.69$   $\sigma_M=-76.82$   $\tau=34.17$   $\sigma_{ID,max}=433.57$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=5250.83$   $T_z=26.57$   $M_y=-17.71$   $T_y=2.78$   $M_x=16.06$   
 $V,Ed=2.78$   $V_c,Rd,Red=7645.33$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=26.57$   $V_c,Rd,Red=7645.33$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2239.85$   $T_z=14.22$   $M_y=-9.36$   $T_y=3.13$   $M_z=-3.46$   $M_x=12.82$   
 Tensioni:  $\sigma_N=-184.20$   $\sigma_M=-43.71$   $\tau=27.75$   $\sigma_{max}=-227.91$   
 Tensioni:  $\sigma_N=-184.20$   $\sigma_M=-10.62$   $\tau=30.37$   $\tau_{max}=30.37$   
 Tensioni:  $\sigma_N=-184.20$   $\sigma_M=-43.71$   $\tau=27.75$   $\sigma_{ID,max}=232.92$

Asta n. 4999 (-16302 -16236) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4318.39$   $M_y,Ed=-23.39$   $M_z,Ed=-1.45$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.03+0.00=0.19$   
 Verifica ZZ:  $0.16+0.02+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.07$  - Classe 3  
 Sollecitazioni:  $N=-4318.39$   $T_z=13.20$   $M_y=-23.04$   $T_y=5.60$   $M_z=-1.05$   $M_x=10.22$   
 Tensioni:  $\sigma_N=-355.13$   $\sigma_M=-82.08$   $\tau=22.11$   $\sigma_{max}=-437.21$   
 Tensioni:  $\sigma_N=-355.13$   $\sigma_M=-3.21$   $\tau=24.55$   $\tau_{max}=24.55$   
 Tensioni:  $\sigma_N=-355.13$   $\sigma_M=-82.08$   $\tau=22.11$   $\sigma_{ID,max}=438.88$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3204.30$   $T_z=17.76$   $M_y=-21.54$   $T_y=1.88$   $M_x=17.17$   
 $V,Ed=1.88$   $V_c,Rd,Red=7630.63$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=17.76$   $V_c,Rd,Red=7630.63$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2252.18$   $T_z=11.08$   $M_y=-10.78$   $T_y=2.73$   $M_z=-3.33$   $M_x=11.59$   
 Tensioni:  $\sigma_N=-185.21$   $\sigma_M=-48.07$   $\tau=25.07$   $\sigma_{max}=-233.28$   
 Tensioni:  $\sigma_N=-185.21$   $\sigma_M=-10.20$   $\tau=27.12$   $\tau_{max}=27.12$   
 Tensioni:  $\sigma_N=-185.21$   $\sigma_M=-48.07$   $\tau=25.07$   $\sigma_{ID,max}=237.29$

Asta n. 4999 (-16236 -16170) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4350.56$   $M_y,Ed=-26.34$   $M_z,Ed=-1.22$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.03+0.00=0.19$   
 Verifica ZZ:  $0.16+0.03+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.04$  - Classe 3  
 Sollecitazioni:  $N=-4350.54$   $T_z=23.78$   $M_y=-24.88$   $T_y=5.76$   $M_z=-1.02$   $M_x=4.32$   
 Tensioni:  $\sigma_N=-357.77$   $\sigma_M=-88.25$   $\tau=9.35$   $\sigma_{max}=-446.03$   
 Tensioni:  $\sigma_N=-357.77$   $\sigma_M=-3.12$   $\tau=13.74$   $\tau_{max}=13.74$   
 Tensioni:  $\sigma_N=-357.77$   $\sigma_M=-88.25$   $\tau=9.35$   $\sigma_{ID,max}=446.32$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-4080.31$   $T_z=24.12$   $M_y=-22.64$   $T_y=5.55$   $M_x=3.79$   
 $V,Ed=5.55$   $V_c,Rd,Red=7806.73$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=24.12$   $V_c,Rd,Red=7806.73$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2264.21 T<sub>z</sub>=17.21 M<sub>y</sub>=-11.83 T<sub>y</sub>=3.23 M<sub>z</sub>=3.24 M<sub>x</sub>=10.31  
 Tensioni:  $\sigma_N=-186.20$   $\sigma_M=-51.35$   $\tau=22.31$   $\sigma_{max}=-237.55$   
 Tensioni:  $\sigma_N=-186.20$   $\sigma_M=9.93$   $\tau=25.49$   $\tau_{max}=25.49$   
 Tensioni:  $\sigma_N=-186.20$   $\sigma_M=-51.35$   $\tau=22.31$   $\sigma_{ID,max}=240.67$

Asta n. 4999 (-16170 -16104) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4389.92 M<sub>y</sub>,Ed=-30.17 M<sub>z</sub>,Ed=-0.99  
 Resistenze: N<sub>c</sub>,R<sub>d</sub>=27215.20 M<sub>y,c</sub>,R<sub>d</sub>=656.79 M<sub>z,c</sub>,R<sub>d</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.04+0.00=0.20  
 Verifica ZZ: 0.16+0.03+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4068.16 T<sub>z</sub>=16.24 M<sub>y</sub>=-28.99 T<sub>y</sub>=5.94 M<sub>z</sub>=1.06 M<sub>x</sub>=-1.93  
 Tensioni:  $\sigma_N=-334.55$   $\sigma_M=-102.39$   $\tau=4.18$   $\sigma_{max}=-436.94$   
 Tensioni:  $\sigma_N=-334.55$   $\sigma_M=-3.26$   $\tau=7.18$   $\tau_{max}=7.18$   
 Tensioni:  $\sigma_N=-334.55$   $\sigma_M=-102.39$   $\tau=4.18$   $\sigma_{ID,max}=437.00$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00  
 Sollecitazioni: N=-4118.66 T<sub>z</sub>=29.27 M<sub>y</sub>=-26.07 T<sub>y</sub>=6.03 M<sub>x</sub>=-1.05  
 V,Ed=6.03 V<sub>c</sub>,R<sub>d</sub>,Red=7842.72 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=29.27 V<sub>c</sub>,R<sub>d</sub>,Red=7842.72 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2275.34 T<sub>z</sub>=23.96 M<sub>y</sub>=-13.16 T<sub>y</sub>=5.08 M<sub>z</sub>=3.22 M<sub>x</sub>=9.02  
 Tensioni:  $\sigma_N=-187.12$   $\sigma_M=-55.82$   $\tau=19.53$   $\sigma_{max}=-242.94$   
 Tensioni:  $\sigma_N=-187.12$   $\sigma_M=9.88$   $\tau=23.95$   $\tau_{max}=23.95$   
 Tensioni:  $\sigma_N=-187.12$   $\sigma_M=-55.82$   $\tau=19.53$   $\sigma_{ID,max}=245.28$

Asta n. 4999 (-16104 -16038) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4443.52 M<sub>y</sub>,Ed=-38.78 M<sub>z</sub>,Ed=-0.91  
 Resistenze: N<sub>c</sub>,R<sub>d</sub>=27215.20 M<sub>y,c</sub>,R<sub>d</sub>=656.79 M<sub>z,c</sub>,R<sub>d</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.05+0.00=0.21  
 Verifica ZZ: 0.16+0.04+0.00=0.20

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4117.42 T<sub>z</sub>=47.64 M<sub>y</sub>=-35.12 T<sub>y</sub>=7.93 M<sub>z</sub>=1.37 M<sub>x</sub>=-6.02  
 Tensioni:  $\sigma_N=-338.60$   $\sigma_M=-124.31$   $\tau=13.04$   $\sigma_{max}=-462.92$   
 Tensioni:  $\sigma_N=-338.60$   $\sigma_M=-4.19$   $\tau=21.84$   $\tau_{max}=21.84$   
 Tensioni:  $\sigma_N=-338.60$   $\sigma_M=-124.31$   $\tau=13.04$   $\sigma_{ID,max}=463.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-4443.50 T<sub>z</sub>=66.59 M<sub>y</sub>=-32.33 T<sub>y</sub>=12.14 M<sub>x</sub>=-5.28  
 V,Ed=12.14 V<sub>c</sub>,R<sub>d</sub>,Red=7787.13 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=66.59 V<sub>c</sub>,R<sub>d</sub>,Red=7787.13 V,Ed/V<sub>c</sub>,R<sub>d</sub>,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2290.85 T<sub>z</sub>=46.44 M<sub>y</sub>=-17.50 T<sub>y</sub>=13.61 M<sub>z</sub>=2.89 M<sub>x</sub>=-9.73  
 Tensioni:  $\sigma_N=-188.39$   $\sigma_M=-69.49$   $\tau=21.05$   $\sigma_{max}=-257.88$   
 Tensioni:  $\sigma_N=-188.39$   $\sigma_M=-8.86$   $\tau=29.63$   $\tau_{max}=29.63$   
 Tensioni:  $\sigma_N=-188.39$   $\sigma_M=-69.49$   $\tau=21.05$   $\sigma_{ID,max}=260.45$

Asta n. 4999 (-16038 -15972) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4515.45 My,Ed=-49.65 Mz,Ed=5.39  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.14$  Ncr,y=25486300.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.14$  Ncr,z=25486300.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.06+0.01=0.23  
 Verifica ZZ: 0.17+0.05+0.01=0.22

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4515.45 T<sub>z</sub>=76.03 M<sub>y</sub>=-49.65 T<sub>y</sub>=59.26 M<sub>z</sub>=5.39 M<sub>x</sub>=-6.94  
 Tensioni:  $\sigma_N=-371.34$   $\sigma_M=-187.57$   $\tau=15.01$   $\sigma_{max}=-558.90$   
 Tensioni:  $\sigma_N=-371.34$   $\sigma_M=-16.54$   $\tau=29.07$   $\tau_{max}=29.07$   
 Tensioni:  $\sigma_N=-371.34$   $\sigma_M=-187.57$   $\tau=15.01$   $\sigma_{ID,max}=559.51$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.00  
 Sollecitazioni: N=-4515.43 T<sub>z</sub>=77.29 M<sub>y</sub>=-42.16 T<sub>y</sub>=59.26 M<sub>z</sub>=-6.94  
 V,Ed=59.26 Vc,Rd,Red=7765.30 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=77.29 Vc,Rd,Red=7765.30 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2316.96 T<sub>z</sub>=53.35 M<sub>y</sub>=-24.27 T<sub>y</sub>=52.60 M<sub>z</sub>=3.10 M<sub>x</sub>=-10.03  
 Tensioni:  $\sigma_N=-190.54$   $\sigma_M=-93.26$   $\tau=21.70$   $\sigma_{max}=-283.80$   
 Tensioni:  $\sigma_N=-190.54$   $\sigma_M=-9.50$   $\tau=31.57$   $\tau_{max}=31.57$   
 Tensioni:  $\sigma_N=-190.54$   $\sigma_M=-92.21$   $\tau=28.52$   $\sigma_{ID,max}=287.03$

Asta n. 4999 (-15972 -15906) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4610.73 My,Ed=-60.01 Mz,Ed=-4.81  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.78  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25440600.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25440600.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.07+0.01=0.25  
 Verifica ZZ: 0.17+0.06+0.01=0.24

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4610.71 T<sub>z</sub>=-97.77 M<sub>y</sub>=-60.01 T<sub>y</sub>=32.55 M<sub>z</sub>=-4.81 M<sub>x</sub>=26.16  
 Tensioni:  $\sigma_N=-379.17$   $\sigma_M=-220.89$   $\tau=56.62$   $\sigma_{max}=-600.06$   
 Tensioni:  $\sigma_N=-379.17$   $\sigma_M=14.76$   $\tau=74.68$   $\tau_{max}=74.68$   
 Tensioni:  $\sigma_N=-379.17$   $\sigma_M=-220.89$   $\tau=56.62$   $\sigma_{ID,max}=608.02$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-4328.13 T<sub>z</sub>=-100.72 M<sub>y</sub>=-50.07 T<sub>y</sub>=38.20 M<sub>z</sub>=23.85  
 V,Ed=38.20 Vc,Rd,Red=7542.75 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-100.72 Vc,Rd,Red=7542.75 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2365.76 T<sub>z</sub>=-66.03 M<sub>y</sub>=-31.64 T<sub>y</sub>=32.53 M<sub>z</sub>=-4.02 M<sub>x</sub>=16.44  
 Tensioni:  $\sigma_N=-194.55$   $\sigma_M=-121.52$   $\tau=35.58$   $\sigma_{max}=-316.07$   
 Tensioni:  $\sigma_N=-194.55$   $\sigma_M=12.34$   $\tau=47.78$   $\tau_{max}=47.78$   
 Tensioni:  $\sigma_N=-194.55$   $\sigma_M=-121.52$   $\tau=35.58$   $\sigma_{ID,max}=322.02$

Asta n. 4999 (-15906 -15839) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4602.55 My,Ed=-45.82 Mz,Ed=-2.27  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.17+0.06+0.00=0.23$   
 Verifica ZZ:  $0.17+0.05+0.00=0.22$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4602.53$   $T_z=-88.03$   $M_y=-45.82$   $T_y=20.67$   $M_z=-2.27$   $M_x=24.62$   
 Tensioni:  $\sigma_N=-378.50$   $\sigma_M=-163.87$   $\tau=53.27$   $\sigma_{max}=-542.37$   
 Tensioni:  $\sigma_N=-378.50$   $\sigma_M=6.95$   $\tau=69.53$   $\tau_{max}=69.53$   
 Tensioni:  $\sigma_N=-378.50$   $\sigma_M=-163.87$   $\tau=53.27$   $\sigma_{ID,max}=550.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4321.48$   $T_z=-91.21$   $M_y=-36.52$   $T_y=21.40$   $M_x=22.36$   
 $V,Ed=21.40$   $Vc,Rd,Red=7562.32$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-91.21$   $Vc,Rd,Red=7562.32$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2364.78$   $T_z=-62.95$   $M_y=-21.93$   $T_y=12.61$   $M_z=-3.69$   $M_x=16.09$   
 Tensioni:  $\sigma_N=-194.47$   $\sigma_M=-87.31$   $\tau=34.82$   $\sigma_{max}=-281.78$   
 Tensioni:  $\sigma_N=-194.47$   $\sigma_M=11.33$   $\tau=46.45$   $\tau_{max}=46.45$   
 Tensioni:  $\sigma_N=-194.47$   $\sigma_M=-87.31$   $\tau=34.82$   $\sigma_{ID,max}=288.16$

Asta n. 4999 (-15839 -15773) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4602.86$   $M_y,Ed=-33.92$   $M_z,Ed=-0.56$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25462900.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25462900.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.04+0.00=0.21$   
 Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.08$  - Classe 3  
 Sollecitazioni:  $N=-4264.65$   $T_z=-40.17$   $M_y=-30.88$   $T_y=1.03$   $M_z=1.01$   $M_x=18.51$   
 Tensioni:  $\sigma_N=-350.71$   $\sigma_M=-108.67$   $\tau=40.07$   $\sigma_{max}=-459.38$   
 Tensioni:  $\sigma_N=-350.71$   $\sigma_M=-3.09$   $\tau=47.49$   $\tau_{max}=47.49$   
 Tensioni:  $\sigma_N=-350.71$   $\sigma_M=-108.67$   $\tau=40.07$   $\sigma_{ID,max}=464.60$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4322.43$   $T_z=-47.64$   $M_y=-28.53$   $T_y=1.19$   $M_x=17.84$   
 $V,Ed=1.19$   $Vc,Rd,Red=7621.79$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-47.64$   $Vc,Rd,Red=7621.79$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2365.48$   $T_z=-36.86$   $M_y=-13.67$   $T_y=1.47$   $M_z=3.23$   $M_x=14.65$   
 Tensioni:  $\sigma_N=-194.53$   $\sigma_M=-57.59$   $\tau=31.69$   $\sigma_{max}=-252.12$   
 Tensioni:  $\sigma_N=-194.53$   $\sigma_M=-9.92$   $\tau=38.50$   $\tau_{max}=38.50$   
 Tensioni:  $\sigma_N=-194.53$   $\sigma_M=-57.59$   $\tau=31.69$   $\sigma_{ID,max}=258.03$

Asta n. 4999 (-15773 -15707) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4609.73$   $M_y,Ed=-27.64$   $M_z,Ed=-1.37$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.03+0.00=0.21$   
 Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.04$  - Classe 3  
 Sollecitazioni:  $N=-4609.72$   $T_z=-48.24$   $M_y=-25.51$   $T_y=-6.15$   $M_z=-1.05$   $M_x=14.68$   
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=-90.49$   $\tau=31.78$   $\sigma_{max}=-469.57$   
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=3.21$   $\tau=40.69$   $\tau_{max}=40.69$   
 Tensioni:  $\sigma_N=-379.09$   $\sigma_M=-90.49$   $\tau=31.78$   $\sigma_{ID,max}=472.79$



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- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4330.16$   $T_z=-49.97$   $M_y=-21.61$   $T_y=-6.17$   $M_x=13.04$   
 $V,Ed=-6.17$   $V_c,Rd,Red=7685.08$   $V,Ed/V_c,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-49.97$   $V_c,Rd,Red=7685.08$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2368.11$   $T_z=-32.77$   $M_y=-10.61$   $T_y=-3.40$   $M_z=-3.14$   $M_x=13.22$   
Tensioni:  $\sigma_N=-194.75$   $\sigma_M=-46.88$   $\tau=28.61$   $\sigma_{max}=-241.62$   
Tensioni:  $\sigma_N=-194.75$   $\sigma_M=9.64$   $\tau=34.67$   $\tau_{max}=34.67$   
Tensioni:  $\sigma_N=-194.75$   $\sigma_M=-46.88$   $\tau=28.61$   $\sigma_{ID,max}=246.65$

Asta n. 4999 (-15707 -15641) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4606.72$   $M_y,Ed=-21.31$   $M_z,Ed=-1.39$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.03+0.00=0.20$   
Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4606.70$   $T_z=-17.97$   $M_y=-21.31$   $T_y=4.93$   $M_z=-1.39$   $M_x=7.95$   
Tensioni:  $\sigma_N=-378.84$   $\sigma_M=-77.36$   $\tau=17.21$   $\sigma_{max}=-456.20$   
Tensioni:  $\sigma_N=-378.84$   $\sigma_M=4.26$   $\tau=20.53$   $\tau_{max}=20.53$   
Tensioni:  $\sigma_N=-378.84$   $\sigma_M=-77.36$   $\tau=17.21$   $\sigma_{ID,max}=457.17$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4328.48$   $T_z=-20.03$   $M_y=-18.05$   $T_y=4.63$   $M_x=6.74$   
 $V,Ed=4.63$   $V_c,Rd,Red=7767.88$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-20.03$   $V_c,Rd,Red=7767.88$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2367.44$   $T_z=-12.79$   $M_y=-9.51$   $T_y=2.13$   $M_z=-3.30$   $M_x=11.36$   
Tensioni:  $\sigma_N=-194.69$   $\sigma_M=-43.64$   $\tau=24.59$   $\sigma_{max}=-238.33$   
Tensioni:  $\sigma_N=-194.69$   $\sigma_M=10.13$   $\tau=26.95$   $\tau_{max}=26.95$   
Tensioni:  $\sigma_N=-194.69$   $\sigma_M=-43.64$   $\tau=24.59$   $\sigma_{ID,max}=242.11$

Asta n. 4999 (-15641 -15575) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4582.87$   $M_y,Ed=-18.14$   $M_z,Ed=-1.33$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.02+0.00=0.19$   
Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4582.85$   $T_z=-23.32$   $M_y=-18.14$   $T_y=9.05$   $M_z=-1.33$   $M_x=1.67$   
Tensioni:  $\sigma_N=-376.88$   $\sigma_M=-66.34$   $\tau=3.62$   $\sigma_{max}=-443.22$   
Tensioni:  $\sigma_N=-376.88$   $\sigma_M=4.09$   $\tau=7.93$   $\tau_{max}=7.93$   
Tensioni:  $\sigma_N=-376.88$   $\sigma_M=-66.34$   $\tau=3.62$   $\sigma_{ID,max}=443.27$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4252.89$   $T_z=-25.22$   $M_y=-17.06$   $T_y=8.80$   
 $V,Ed=8.80$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-25.22$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2359.98 T<sub>z</sub>=-10.06 M<sub>y</sub>=-8.95 T<sub>y</sub>=3.86 M<sub>z</sub>=-3.29 M<sub>x</sub>=9.74  
 Tensioni:  $\sigma_N=-194.08$   $\sigma_M=-41.71$   $\tau=21.07$   $\sigma_{max}=-235.78$   
 Tensioni:  $\sigma_N=-194.08$   $\sigma_M=10.10$   $\tau=22.93$   $\tau_{max}=22.93$   
 Tensioni:  $\sigma_N=-194.08$   $\sigma_M=-41.71$   $\tau=21.07$   $\sigma_{ID,max}=238.59$

Asta n. 4999 (-15575 -15509) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4575.54 M<sub>y</sub>,Ed=-15.36 M<sub>z</sub>,Ed=-0.58  
 Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.02+0.00=0.19  
 Verifica ZZ: 0.17+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=-4247.69 T<sub>z</sub>=-5.10 M<sub>y</sub>=-15.73 T<sub>y</sub>=5.34 M<sub>z</sub>=1.33 M<sub>x</sub>=-5.82  
 Tensioni:  $\sigma_N=-349.32$   $\sigma_M=-58.12$   $\tau=12.60$   $\sigma_{max}=-407.44$   
 Tensioni:  $\sigma_N=-349.32$   $\sigma_M=-48.24$   $\tau=13.58$   $\tau_{max}=13.58$   
 Tensioni:  $\sigma_N=-349.32$   $\sigma_M=-58.12$   $\tau=12.60$   $\sigma_{ID,max}=408.02$

- Verifica a taglio dir. Y [4.2.16] - CC 37 SLU Xl=0.00  
 Sollecitazioni: N=-3540.24 T<sub>z</sub>=13.70 M<sub>y</sub>=-14.77 T<sub>y</sub>=3.43  
 V,Ed=3.43 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica a taglio dir. Z [4.2.16]  
 V,Ed=13.70 Vc,Rd=7856.59 V,Ed/Vc,Rd=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2354.97 T<sub>z</sub>=10.34 M<sub>y</sub>=-8.18 T<sub>y</sub>=3.70 M<sub>z</sub>=3.24 M<sub>x</sub>=-10.75  
 Tensioni:  $\sigma_N=-193.67$   $\sigma_M=-38.90$   $\tau=23.26$   $\sigma_{max}=-232.56$   
 Tensioni:  $\sigma_N=-193.67$   $\sigma_M=-9.93$   $\tau=25.17$   $\tau_{max}=25.17$   
 Tensioni:  $\sigma_N=-193.67$   $\sigma_M=-38.90$   $\tau=23.26$   $\sigma_{ID,max}=236.03$

Asta n. 4999 (-15509 -15443) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4588.21 M<sub>y</sub>,Ed=-15.57 M<sub>z</sub>,Ed=-0.20  
 Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_{y}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_{z}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.17+0.02+0.00=0.19  
 Verifica ZZ: 0.17+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4261.76 T<sub>z</sub>=-5.44 M<sub>y</sub>=-15.26 T<sub>y</sub>=2.20 M<sub>z</sub>=1.20 M<sub>x</sub>=-10.42  
 Tensioni:  $\sigma_N=-350.47$   $\sigma_M=-56.08$   $\tau=22.55$   $\sigma_{max}=-406.55$   
 Tensioni:  $\sigma_N=-350.47$   $\sigma_M=3.68$   $\tau=23.55$   $\tau_{max}=23.55$   
 Tensioni:  $\sigma_N=-350.47$   $\sigma_M=-56.08$   $\tau=22.55$   $\sigma_{ID,max}=408.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU Xl=0.00  
 Sollecitazioni: N=-2599.52 T<sub>z</sub>=15.45 M<sub>y</sub>=-7.28 T<sub>y</sub>=2.68 M<sub>x</sub>=-2.15  
 V,Ed=2.68 Vc,Rd,Red=7828.30 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=15.45 Vc,Rd,Red=7828.30 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2353.24 T<sub>z</sub>=15.67 M<sub>y</sub>=-8.13 T<sub>y</sub>=5.58 M<sub>z</sub>=3.28 M<sub>x</sub>=-11.95  
 Tensioni:  $\sigma_N=-193.52$   $\sigma_M=-38.89$   $\tau=25.87$   $\sigma_{max}=-232.41$   
 Tensioni:  $\sigma_N=-193.52$   $\sigma_M=-10.07$   $\tau=28.76$   $\tau_{max}=28.76$   
 Tensioni:  $\sigma_N=-193.52$   $\sigma_M=-38.89$   $\tau=25.87$   $\sigma_{ID,max}=236.69$

Asta n. 4999 (-15443 -15377) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4614.56$   $M_y, Ed = -20.49$   $M_z, Ed = -0.32$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.03 + 0.00 = 0.20$   
 Verifica ZZ:  $0.17 + 0.02 + 0.00 = 0.19$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l = 0.03$  - Classe 3  
 Sollecitazioni:  $N = -4286.96$   $T_x = 25.81$   $M_y = -15.58$   $T_y = -5.92$   $M_z = 1.05$   $M_x = -14.33$   
 Tensioni:  $\sigma_N = -352.55$   $\sigma_M = -56.66$   $\tau = 31.01$   $\sigma_{max} = -409.21$   
 Tensioni:  $\sigma_N = -352.55$   $\sigma_M = -3.21$   $\tau = 35.78$   $\tau_{max} = 35.78$   
 Tensioni:  $\sigma_N = -352.55$   $\sigma_M = -56.66$   $\tau = 31.01$   $\sigma_{ID, max} = 412.72$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = -3562.66$   $T_x = 49.55$   $M_y = -19.07$   $T_y = -3.46$   $M_x = -7.83$   
 $V, Ed = -3.46$   $V_c, Rd, Red = 7753.62$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 49.55$   $V_c, Rd, Red = 7753.62$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -2358.19$   $T_x = 35.88$   $M_y = -11.59$   $T_y = -14.93$   $M_z = 2.00$   $M_x = -13.22$   
 Tensioni:  $\sigma_N = -193.93$   $\sigma_M = -46.30$   $\tau = 28.60$   $\sigma_{max} = -240.23$   
 Tensioni:  $\sigma_N = -193.93$   $\sigma_M = -6.13$   $\tau = 35.23$   $\tau_{max} = 35.23$   
 Tensioni:  $\sigma_N = -193.93$   $\sigma_M = -46.30$   $\tau = 28.60$   $\sigma_{ID, max} = 245.29$

Asta n. 4999 (-15377 -15311) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4655.88$   $M_y, Ed = -27.45$   $M_z, Ed = -0.68$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.03 + 0.00 = 0.21$   
 Verifica ZZ:  $0.17 + 0.03 + 0.00 = 0.20$

- Verifica in termini tensionali [4.2.4] - CC 89 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -3244.28$   $T_x = 19.95$   $M_y = -15.56$   $T_y = 17.85$   $M_z = 1.77$   
 Tensioni:  $\sigma_N = -266.80$   $\sigma_M = -59.04$   $\tau = 0.00$   $\sigma_{max} = -325.83$   
 Tensioni:  $\sigma_N = -266.80$   $\sigma_M = 5.42$   $\tau = 3.69$   $\tau_{max} = 3.69$   
 Tensioni:  $\sigma_N = -266.80$   $\sigma_M = -59.04$   $\tau = 0.00$   $\sigma_{ID, max} = 325.83$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = -3593.24$   $T_x = 54.70$   $M_y = -26.29$   $T_y = -7.28$   $M_x = -8.83$   
 $V, Ed = -7.28$   $V_c, Rd, Red = 7740.48$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 54.70$   $V_c, Rd, Red = 7740.48$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -2373.35$   $T_x = 41.56$   $M_y = -16.86$   $T_y = 41.50$   $M_z = 2.23$   $M_x = -13.24$   
 Tensioni:  $\sigma_N = -195.18$   $\sigma_M = -65.04$   $\tau = 28.65$   $\sigma_{max} = -260.22$   
 Tensioni:  $\sigma_N = -195.18$   $\sigma_M = -6.84$   $\tau = 36.33$   $\tau_{max} = 36.33$   
 Tensioni:  $\sigma_N = -195.18$   $\sigma_M = -64.28$   $\tau = 34.03$   $\sigma_{ID, max} = 266.07$

Asta n. 4999 (-15311 -15245) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -4682.26$   $M_y, Ed = -73.78$   $M_z, Ed = -3.13$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17 + 0.09 + 0.00 = 0.27$

Verifica ZZ:  $0.17+0.07+0.00=0.25$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4682.24$   $T_z=-124.13$   $M_y=-73.78$   $T_y=28.30$   $M_z=-3.13$   $M_x=25.44$   
 Tensioni:  $\sigma_N=-385.05$   $\sigma_M=-262.07$   $\tau=55.06$   $\sigma_{max}=-647.13$   
 Tensioni:  $\sigma_N=-385.05$   $\sigma_M=9.59$   $\tau=77.98$   $\tau_{max}=77.98$   
 Tensioni:  $\sigma_N=-385.05$   $\sigma_M=-262.07$   $\tau=55.06$   $\sigma_{ID,max}=654.11$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4405.31$   $T_z=-126.40$   $M_y=-61.09$   $T_y=28.56$   $M_x=23.40$   
 $V,Ed=28.56$   $Vc,Rd,Red=7548.66$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-126.40$   $Vc,Rd,Red=7548.66$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2392.07$   $T_z=-70.56$   $M_y=-35.23$   $T_y=29.61$   $M_z=-6.42$   $M_x=16.22$   
 Tensioni:  $\sigma_N=-196.72$   $\sigma_M=-141.95$   $\tau=35.09$   $\sigma_{max}=-338.67$   
 Tensioni:  $\sigma_N=-196.72$   $\sigma_M=19.70$   $\tau=48.13$   $\tau_{max}=48.13$   
 Tensioni:  $\sigma_N=-196.72$   $\sigma_M=-141.95$   $\tau=35.09$   $\sigma_{ID,max}=344.08$

Asta n. 4999 (-15245 -15178) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4660.17$   $M_y,Ed=-55.53$   $M_z,Ed=-0.85$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.07+0.00=0.24$   
 Verifica ZZ:  $0.17+0.05+0.00=0.23$
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.05$  - Classe 3  
 Sollecitazioni:  $N=-4332.86$   $T_z=-105.52$   $M_y=-48.68$   $T_y=7.28$   $M_z=1.05$   $M_x=23.30$   
 Tensioni:  $\sigma_N=-356.32$   $\sigma_M=-169.48$   $\tau=50.43$   $\sigma_{max}=-525.80$   
 Tensioni:  $\sigma_N=-356.32$   $\sigma_M=-3.23$   $\tau=69.92$   $\tau_{max}=69.92$   
 Tensioni:  $\sigma_N=-356.32$   $\sigma_M=-169.48$   $\tau=50.43$   $\sigma_{ID,max}=533.00$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4386.03$   $T_z=-117.91$   $M_y=-43.46$   $T_y=7.87$   $M_x=21.78$   
 $V,Ed=7.87$   $Vc,Rd,Red=7570.07$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-117.91$   $Vc,Rd,Red=7570.07$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2380.76$   $T_z=-68.69$   $M_y=-24.81$   $T_y=11.32$   $M_z=-3.84$   $M_x=15.86$   
 Tensioni:  $\sigma_N=-195.79$   $\sigma_M=-97.64$   $\tau=34.32$   $\sigma_{max}=-293.42$   
 Tensioni:  $\sigma_N=-195.79$   $\sigma_M=11.79$   $\tau=47.01$   $\tau_{max}=47.01$   
 Tensioni:  $\sigma_N=-195.79$   $\sigma_M=-97.64$   $\tau=34.32$   $\sigma_{ID,max}=299.38$

Asta n. 4999 (-15178 -15113) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4644.48$   $M_y,Ed=-39.81$   $M_z,Ed=-1.27$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.05+0.00=0.22$   
 Verifica ZZ:  $0.17+0.04+0.00=0.21$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.07$  - Classe 3  
 Sollecitazioni:  $N=-4644.48$   $T_z=-72.39$   $M_y=-34.69$   $T_y=-8.70$   $M_z=-1.04$   $M_x=19.00$   
 Tensioni:  $\sigma_N=-381.95$   $\sigma_M=-121.76$   $\tau=41.11$   $\sigma_{max}=-503.70$   
 Tensioni:  $\sigma_N=-381.95$   $\sigma_M=3.19$   $\tau=54.48$   $\tau_{max}=54.48$   
 Tensioni:  $\sigma_N=-381.95$   $\sigma_M=-121.76$   $\tau=41.11$   $\sigma_{ID,max}=508.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4372.24$   $T_z=-74.29$   $M_y=-31.71$   $T_y=-8.97$   $M_x=17.25$   
 $V,Ed=-8.97$   $Vc,Rd,Red=7629.64$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-74.29$   $Vc,Rd,Red=7629.64$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2369.14$   $T_z=-43.90$   $M_y=-15.83$   $T_y=-6.67$   $M_z=3.23$   $M_x=14.48$   
 Tensioni:  $\sigma_N=-194.83$   $\sigma_M=-64.92$   $\tau=31.34$   $\sigma_{max}=-259.75$   
 Tensioni:  $\sigma_N=-194.83$   $\sigma_M=-9.89$   $\tau=39.45$   $\tau_{max}=39.45$   
 Tensioni:  $\sigma_N=-194.83$   $\sigma_M=-64.92$   $\tau=31.34$   $\sigma_{ID,max}=265.36$

Asta n. 4999 (-15113 -15044) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4625.36$   $M_y,Ed=-29.41$   $M_z,Ed=-1.21$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.04+0.00=0.21$   
 Verifica ZZ:  $0.17+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4625.34$   $T_z=-63.02$   $M_y=-29.41$   $T_y=3.00$   $M_z=-1.21$   $M_x=13.75$   
 Tensioni:  $\sigma_N=-380.37$   $\sigma_M=-104.31$   $\tau=29.75$   $\sigma_{max}=-484.69$   
 Tensioni:  $\sigma_N=-380.37$   $\sigma_M=3.70$   $\tau=41.39$   $\tau_{max}=41.39$   
 Tensioni:  $\sigma_N=-380.37$   $\sigma_M=-104.31$   $\tau=29.75$   $\sigma_{ID,max}=487.42$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4354.97$   $T_z=-65.00$   $M_y=-21.99$   $T_y=2.62$   $M_x=12.32$   
 $V,Ed=2.62$   $Vc,Rd,Red=7694.50$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-65.00$   $Vc,Rd,Red=7694.50$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2358.68$   $T_z=-35.79$   $M_y=-11.26$   $T_y=1.77$   $M_z=-3.11$   $M_x=12.98$   
 Tensioni:  $\sigma_N=-193.97$   $\sigma_M=-48.98$   $\tau=28.09$   $\sigma_{max}=-242.95$   
 Tensioni:  $\sigma_N=-193.97$   $\sigma_M=9.54$   $\tau=34.70$   $\tau_{max}=34.70$   
 Tensioni:  $\sigma_N=-193.97$   $\sigma_M=-48.98$   $\tau=28.09$   $\sigma_{ID,max}=247.77$

Asta n. 4999 (-15044 -14978) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4583.63$   $M_y,Ed=-20.46$   $M_z,Ed=-1.35$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.03+0.00=0.20$   
 Verifica ZZ:  $0.17+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4583.61$   $T_z=-35.41$   $M_y=-20.46$   $T_y=8.55$   $M_z=-1.35$   $M_x=6.76$   
 Tensioni:  $\sigma_N=-376.94$   $\sigma_M=-74.31$   $\tau=14.63$   $\sigma_{max}=-451.25$   
 Tensioni:  $\sigma_N=-376.94$   $\sigma_M=4.13$   $\tau=21.17$   $\tau_{max}=21.17$   
 Tensioni:  $\sigma_N=-376.94$   $\sigma_M=-74.31$   $\tau=14.63$   $\sigma_{ID,max}=451.96$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4583.63$   $T_z=-36.67$   $M_y=-16.94$   $T_y=8.55$   $M_x=6.76$   
 $V,Ed=8.55$   $Vc,Rd,Red=7767.65$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-36.67$   $Vc,Rd,Red=7767.65$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3

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Sollecitazioni:  $N=-2341.89$   $T_x=-18.16$   $M_y=-8.77$   $T_y=3.56$   $M_z=-3.14$   $M_x=10.94$

Tensioni:  $\sigma_N=-192.59$   $\sigma_M=-40.58$   $\tau=23.67$   $\sigma_{max}=-233.17$

Tensioni:  $\sigma_N=-192.59$   $\sigma_M=9.64$   $\tau=27.03$   $\tau_{max}=27.03$

Tensioni:  $\sigma_N=-192.59$   $\sigma_M=-40.58$   $\tau=23.67$   $\sigma_{ID,max}=236.75$

Asta n. 4999 (-14978 -14912) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4564.31$   $M_y,Ed=-15.16$   $M_z,Ed=-0.55$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.17+0.02+0.00=0.19$

Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.07$  - Classe 3

Sollecitazioni:  $N=-4251.06$   $T_x=-36.30$   $M_y=-14.44$   $T_y=3.78$   $M_z=1.02$

Tensioni:  $\sigma_N=-349.59$   $\sigma_M=-52.70$   $\tau=0.00$   $\sigma_{max}=-402.30$

Tensioni:  $\sigma_N=-349.59$   $\sigma_M=3.14$   $\tau=6.70$   $\tau_{max}=6.70$

Tensioni:  $\sigma_N=-349.59$   $\sigma_M=-52.70$   $\tau=0.00$   $\sigma_{ID,max}=402.30$

- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $X_l=0.06$

Sollecitazioni:  $N=-4251.06$   $T_x=-36.19$   $M_y=-14.77$   $T_y=3.78$

$V,Ed=3.78$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica a taglio dir. Z [4.2.16]

$V,Ed=-36.19$   $V_c,Rd=7856.59$   $V,Ed/V_c,Rd=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-2330.69$   $T_x=-15.39$   $M_y=-7.39$   $T_y=2.58$   $M_z=3.00$   $M_x=8.99$

Tensioni:  $\sigma_N=-191.67$   $\sigma_M=-35.41$   $\tau=19.45$   $\sigma_{max}=-227.08$

Tensioni:  $\sigma_N=-191.67$   $\sigma_M=-9.21$   $\tau=22.29$   $\tau_{max}=22.29$

Tensioni:  $\sigma_N=-191.67$   $\sigma_M=-35.41$   $\tau=19.45$   $\sigma_{ID,max}=229.56$

Asta n. 4999 (-14912 -14846) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-4571.83$   $M_y,Ed=-10.80$   $M_z,Ed=-0.23$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.17+0.01+0.00=0.18$

Verifica ZZ:  $0.17+0.01+0.00=0.18$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-4261.56$   $T_x=-11.29$   $M_y=-12.11$   $T_y=2.00$   $M_z=1.08$   $M_x=-6.10$

Tensioni:  $\sigma_N=-350.46$   $\sigma_M=-44.97$   $\tau=13.20$   $\sigma_{max}=-395.43$

Tensioni:  $\sigma_N=-350.46$   $\sigma_M=3.32$   $\tau=15.29$   $\tau_{max}=15.29$

Tensioni:  $\sigma_N=-350.46$   $\sigma_M=-44.97$   $\tau=13.20$   $\sigma_{ID,max}=396.09$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU  $X_l=0.00$

Sollecitazioni:  $N=-2011.47$   $T_x=10.57$   $M_y=-1.67$   $T_y=1.11$   $M_x=-4.18$

$V,Ed=1.11$   $V_c,Rd,Red=7801.54$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=10.57$   $V_c,Rd,Red=7801.54$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-2325.91$   $T_x=12.06$   $M_y=-6.28$   $T_y=3.62$   $M_z=3.13$   $M_x=-10.47$

Tensioni:  $\sigma_N=-191.28$   $\sigma_M=-32.05$   $\tau=22.66$   $\sigma_{max}=-223.32$

Tensioni:  $\sigma_N=-191.28$   $\sigma_M=-9.59$   $\tau=24.88$   $\tau_{max}=24.88$

Tensioni:  $\sigma_N=-191.28$   $\sigma_M=-32.05$   $\tau=22.66$   $\sigma_{ID,max}=226.75$

Asta n. 4999 (-14846 -14780) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

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Sollecitazioni: N,Ed=-4580.97 My,Ed=-10.05 Mz,Ed=0.22  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.01+0.00=0.18  
Verifica ZZ: 0.17+0.01+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4272.35 T<sub>z</sub>=-15.07 M<sub>y</sub>=-10.02 T<sub>y</sub>=2.16 M<sub>z</sub>=1.20 M<sub>x</sub>=-10.48  
Tensioni:  $\sigma_N=-351.35$   $\sigma_M=-38.22$   $\tau=22.67$   $\sigma_{max}=-389.56$   
Tensioni:  $\sigma_N=-351.35$   $\sigma_M=3.67$   $\tau=25.46$   $\tau_{max}=25.46$   
Tensioni:  $\sigma_N=-351.35$   $\sigma_M=-38.22$   $\tau=22.67$   $\sigma_{ID,max}=391.54$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.00  
Sollecitazioni: N=-2015.83 T<sub>z</sub>=14.33 M<sub>y</sub>=-3.22 T<sub>y</sub>=1.39 M<sub>x</sub>=-6.04  
V,Ed=1.39 Vc,Rd,Red=7777.18 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=14.33 Vc,Rd,Red=7777.18 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2321.40 T<sub>z</sub>=16.70 M<sub>y</sub>=-6.39 T<sub>y</sub>=7.02 M<sub>z</sub>=3.10 M<sub>x</sub>=-11.38  
Tensioni:  $\sigma_N=-190.91$   $\sigma_M=-32.33$   $\tau=24.63$   $\sigma_{max}=-223.24$   
Tensioni:  $\sigma_N=-190.91$   $\sigma_M=-9.51$   $\tau=27.72$   $\tau_{max}=27.72$   
Tensioni:  $\sigma_N=-190.91$   $\sigma_M=-32.33$   $\tau=24.63$   $\sigma_{ID,max}=227.28$

Asta n. 4999 (-14780 -14714) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4596.98 My,Ed=-14.00 Mz,Ed=-0.19  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.19  
Verifica ZZ: 0.17+0.01+0.00=0.18
- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.04 - Classe 3  
Sollecitazioni: N=-4286.71 T<sub>z</sub>=19.79 M<sub>y</sub>=-8.97 T<sub>y</sub>=-6.86 M<sub>z</sub>=1.03 M<sub>x</sub>=-14.39  
Tensioni:  $\sigma_N=-352.52$   $\sigma_M=-34.07$   $\tau=31.14$   $\sigma_{max}=-386.60$   
Tensioni:  $\sigma_N=-352.52$   $\sigma_M=-3.17$   $\tau=34.80$   $\tau_{max}=34.80$   
Tensioni:  $\sigma_N=-352.52$   $\sigma_M=-34.07$   $\tau=31.14$   $\sigma_{ID,max}=390.35$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-3607.87 T<sub>z</sub>=52.94 M<sub>y</sub>=-13.40 T<sub>y</sub>=-4.59 M<sub>x</sub>=-11.49  
V,Ed=-4.59 Vc,Rd,Red=7705.38 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=52.94 Vc,Rd,Red=7705.38 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2322.67 T<sub>z</sub>=40.24 M<sub>y</sub>=-11.19 T<sub>y</sub>=15.78 M<sub>z</sub>=-1.27 M<sub>x</sub>=-12.40  
Tensioni:  $\sigma_N=-191.01$   $\sigma_M=-42.48$   $\tau=26.85$   $\sigma_{max}=-233.49$   
Tensioni:  $\sigma_N=-191.01$   $\sigma_M=3.91$   $\tau=34.28$   $\tau_{max}=34.28$   
Tensioni:  $\sigma_N=-191.01$   $\sigma_M=-42.04$   $\tau=28.89$   $\sigma_{ID,max}=238.37$

Asta n. 4999 (-14714 -14648) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4618.46 My,Ed=-20.34 Mz,Ed=-0.56  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.17+0.02+0.00=0.20  
Verifica ZZ: 0.17+0.02+0.00=0.19

- Verifica in termini tensionali [4.2.4] - CC 89 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-3210.81$   $T_z=15.04$   $M_y=-10.22$   $T_y=20.70$   $M_z=2.36$   $M_x=2.06$   
 Tensioni:  $\sigma_N=-264.05$   $\sigma_M=-42.86$   $\tau=4.46$   $\sigma_{max}=-306.91$   
 Tensioni:  $\sigma_N=-264.05$   $\sigma_M=31.35$   $\tau=8.29$   $\tau_{max}=8.29$   
 Tensioni:  $\sigma_N=-264.05$   $\sigma_M=-42.86$   $\tau=4.46$   $\sigma_{ID,max}=307.01$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $Xl=0.00$   
 Sollecitazioni:  $N=-3625.80$   $T_z=58.19$   $M_y=-21.08$   $T_y=-9.47$   $M_x=-12.33$   
 $V,Ed=-9.47$   $Vc,Rd,Red=7694.31$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=58.19$   $Vc,Rd,Red=7694.31$   $V,Ed/Vc,Rd,Red=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2332.10$   $T_z=43.64$   $M_y=-17.38$   $T_y=-51.78$   $M_z=-3.83$   $M_x=-12.32$   
 Tensioni:  $\sigma_N=-191.78$   $\sigma_M=-72.28$   $\tau=26.66$   $\sigma_{max}=-264.06$   
 Tensioni:  $\sigma_N=-191.78$   $\sigma_M=53.32$   $\tau=36.22$   $\tau_{max}=36.22$   
 Tensioni:  $\sigma_N=-191.78$   $\sigma_M=-72.28$   $\tau=26.66$   $\sigma_{ID,max}=268.07$

Asta n. 4999 (-14648 -14580) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4596.58$   $M_y,Ed=-89.06$   $M_z,Ed=-1.15$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.11+0.00=0.28$   
 Verifica ZZ:  $0.17+0.09+0.00=0.26$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4596.56$   $T_z=-160.84$   $M_y=-89.06$   $T_y=8.04$   $M_z=-1.15$   $M_x=27.43$   
 Tensioni:  $\sigma_N=-378.01$   $\sigma_M=-307.41$   $\tau=59.37$   $\sigma_{max}=-685.42$   
 Tensioni:  $\sigma_N=-378.01$   $\sigma_M=3.53$   $\tau=89.07$   $\tau_{max}=89.07$   
 Tensioni:  $\sigma_N=-378.01$   $\sigma_M=-307.41$   $\tau=59.37$   $\sigma_{ID,max}=693.09$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-4596.58$   $T_z=-162.10$   $M_y=-73.28$   $T_y=8.04$   $M_x=27.43$   
 $V,Ed=8.04$   $Vc,Rd,Red=7495.65$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-162.10$   $Vc,Rd,Red=7495.65$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2330.03$   $T_z=-81.32$   $M_y=-39.30$   $T_y=38.58$   $M_z=-7.51$   $M_x=15.59$   
 Tensioni:  $\sigma_N=-191.62$   $\sigma_M=-159.50$   $\tau=33.75$   $\sigma_{max}=-351.12$   
 Tensioni:  $\sigma_N=-191.62$   $\sigma_M=23.04$   $\tau=48.77$   $\tau_{max}=48.77$   
 Tensioni:  $\sigma_N=-191.62$   $\sigma_M=-159.50$   $\tau=33.75$   $\sigma_{ID,max}=355.95$

Asta n. 4999 (-14580 -14510) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4569.72$   $M_y,Ed=-65.48$   $M_z,Ed=-1.66$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463400.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463400.00$   $\lambda^*_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.17+0.08+0.00=0.25$   
 Verifica ZZ:  $0.17+0.06+0.00=0.23$
- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4569.70$   $T_z=-154.33$   $M_y=-65.48$   $T_y=-4.48$   $M_z=-1.22$   $M_x=25.29$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=-227.29$   $\tau=54.74$   $\sigma_{max}=-603.09$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=3.74$   $\tau=83.24$   $\tau_{max}=83.24$   
 Tensioni:  $\sigma_N=-375.80$   $\sigma_M=-227.29$   $\tau=54.74$   $\sigma_{ID,max}=610.49$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$



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Sollecitazioni:  $N=-4308.25$   $T_z=-154.68$   $M_y=-49.41$   $T_y=-5.90$   $M_x=23.59$   
 $V,Ed=-5.90$   $V_c,Rd,Red=7546.16$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-154.68$   $V_c,Rd,Red=7546.16$   $V,Ed/V_c,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2312.06$   $T_z=-78.28$   $M_y=-27.40$   $T_y=-17.02$   $M_z=-4.30$   $M_x=15.18$   
Tensioni:  $\sigma_N=-190.14$   $\sigma_M=-108.04$   $\tau=32.85$   $\sigma_{max}=-298.17$   
Tensioni:  $\sigma_N=-190.14$   $\sigma_M=13.19$   $\tau=47.31$   $\tau_{max}=47.31$   
Tensioni:  $\sigma_N=-190.14$   $\sigma_M=-108.04$   $\tau=32.85$   $\sigma_{ID,max}=303.55$

Asta n. 4999 (-14510 -14444) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4529.85$   $M_y,Ed=-44.14$   $M_z,Ed=-1.62$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.17+0.05+0.00=0.22$   
Verifica ZZ:  $0.17+0.04+0.00=0.21$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4529.83$   $T_z=-89.51$   $M_y=-44.14$   $T_y=5.81$   $M_z=-1.62$   $M_x=19.91$   
Tensioni:  $\sigma_N=-372.52$   $\sigma_M=-155.94$   $\tau=43.09$   $\sigma_{max}=-528.46$   
Tensioni:  $\sigma_N=-372.52$   $\sigma_M=4.98$   $\tau=59.62$   $\tau_{max}=59.62$   
Tensioni:  $\sigma_N=-372.52$   $\sigma_M=-155.94$   $\tau=43.09$   $\sigma_{ID,max}=533.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4271.07$   $T_z=-91.71$   $M_y=-34.29$   $T_y=4.87$   $M_x=18.48$   
 $V,Ed=4.87$   $V_c,Rd,Red=7613.40$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-91.71$   $V_c,Rd,Red=7613.40$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2288.80$   $T_z=-47.74$   $M_y=-17.30$   $T_y=6.13$   $M_z=-3.37$   $M_x=13.36$   
Tensioni:  $\sigma_N=-188.22$   $\sigma_M=-70.42$   $\tau=28.92$   $\sigma_{max}=-258.64$   
Tensioni:  $\sigma_N=-188.22$   $\sigma_M=10.32$   $\tau=37.74$   $\tau_{max}=37.74$   
Tensioni:  $\sigma_N=-188.22$   $\sigma_M=-70.42$   $\tau=28.92$   $\sigma_{ID,max}=263.45$

Asta n. 4999 (-14444 -14378) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-4466.52$   $M_y,Ed=-30.66$   $M_z,Ed=-1.70$   
Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.16+0.04+0.00=0.20$   
Verifica ZZ:  $0.16+0.03+0.00=0.20$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-4466.50$   $T_z=-82.57$   $M_y=-30.66$   $T_y=11.53$   $M_z=-1.70$   $M_x=13.99$   
Tensioni:  $\sigma_N=-367.31$   $\sigma_M=-110.29$   $\tau=30.27$   $\sigma_{max}=-477.60$   
Tensioni:  $\sigma_N=-367.31$   $\sigma_M=5.23$   $\tau=45.52$   $\tau_{max}=45.52$   
Tensioni:  $\sigma_N=-367.31$   $\sigma_M=-110.29$   $\tau=30.27$   $\sigma_{ID,max}=480.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$   
Sollecitazioni:  $N=-4466.52$   $T_z=-83.83$   $M_y=-22.53$   $T_y=11.53$   $M_x=13.99$   
 $V,Ed=11.53$   $V_c,Rd,Red=7672.55$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-83.83$   $V_c,Rd,Red=7672.55$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-2260.09$   $T_z=-40.31$   $M_y=-12.07$   $T_y=5.45$   $M_z=-3.15$   $M_x=11.53$

Tensioni:  $\sigma_N=-185.86$   $\sigma_M=-51.89$   $\tau=24.96$   $\sigma_{max}=-237.75$   
 Tensioni:  $\sigma_N=-185.86$   $\sigma_M=9.67$   $\tau=32.41$   $\tau_{max}=32.41$   
 Tensioni:  $\sigma_N=-185.86$   $\sigma_M=-51.89$   $\tau=24.96$   $\sigma_{ID,max}=241.65$

Asta n. 4999 (-14378 -14312) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4437.84 My,Ed=-19.41 Mz,Ed=-0.60  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.00=0.19  
 Verifica ZZ: 0.16+0.02+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3588.44 T<sub>z</sub>=-33.05 M<sub>y</sub>=-15.06 T<sub>y</sub>=3.63 M<sub>z</sub>=-1.01 M<sub>x</sub>=5.28  
 Tensioni:  $\sigma_N=-295.10$   $\sigma_M=-54.78$   $\tau=11.44$   $\sigma_{max}=-349.88$   
 Tensioni:  $\sigma_N=-295.10$   $\sigma_M=3.10$   $\tau=17.54$   $\tau_{max}=17.54$   
 Tensioni:  $\sigma_N=-295.10$   $\sigma_M=-54.78$   $\tau=11.44$   $\sigma_{ID,max}=350.44$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-4143.07 T<sub>z</sub>=-45.45 M<sub>y</sub>=-17.31 T<sub>y</sub>=3.62 M<sub>x</sub>=7.96  
 V,Ed=3.62 Vc,Rd,Red=7751.91 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-45.45 Vc,Rd,Red=7751.91 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2242.33 T<sub>z</sub>=-21.66 M<sub>y</sub>=-8.53 T<sub>y</sub>=2.94 M<sub>z</sub>=2.79 M<sub>x</sub>=8.99  
 Tensioni:  $\sigma_N=-184.40$   $\sigma_M=-38.58$   $\tau=19.45$   $\sigma_{max}=-222.98$   
 Tensioni:  $\sigma_N=-184.40$   $\sigma_M=-8.56$   $\tau=23.45$   $\tau_{max}=23.45$   
 Tensioni:  $\sigma_N=-184.40$   $\sigma_M=-38.58$   $\tau=19.45$   $\sigma_{ID,max}=225.51$

Asta n. 4999 (-14312 -14246) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4450.06 My,Ed=-13.02 Mz,Ed=-0.24  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ , 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.00=0.18  
 Verifica ZZ: 0.16+0.01+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.06 - Classe 3  
 Sollecitazioni: N=-4159.82 T<sub>z</sub>=-40.59 M<sub>y</sub>=-12.67 M<sub>z</sub>=1.00 M<sub>x</sub>=1.39  
 Tensioni:  $\sigma_N=-342.09$   $\sigma_M=-46.59$   $\tau=3.02$   $\sigma_{max}=-388.68$   
 Tensioni:  $\sigma_N=-342.09$   $\sigma_M=-3.07$   $\tau=10.51$   $\tau_{max}=10.51$   
 Tensioni:  $\sigma_N=-342.09$   $\sigma_M=-46.59$   $\tau=3.02$   $\sigma_{ID,max}=388.71$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.05  
 Sollecitazioni: N=-4159.82 T<sub>z</sub>=-40.47 M<sub>y</sub>=-13.03 M<sub>x</sub>=1.39  
 V,Ed=-40.47 Vc,Rd,Red=7838.24 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2236.34 T<sub>z</sub>=-17.10 M<sub>y</sub>=-6.34 T<sub>y</sub>=2.55 M<sub>z</sub>=2.90 M<sub>x</sub>=-6.96  
 Tensioni:  $\sigma_N=-183.91$   $\sigma_M=-31.48$   $\tau=15.07$   $\sigma_{max}=-215.39$   
 Tensioni:  $\sigma_N=-183.91$   $\sigma_M=8.89$   $\tau=18.23$   $\tau_{max}=18.23$   
 Tensioni:  $\sigma_N=-183.91$   $\sigma_M=-31.48$   $\tau=15.07$   $\sigma_{ID,max}=216.97$

Asta n. 4999 (-14246 -14180) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4465.11 My,Ed=-8.18 Mz,Ed=-0.28  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.01+0.00=0.17  
 Verifica ZZ: 0.16+0.01+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.04 - Classe 3  
 Sollecitazioni: N=-4178.85 T<sub>z</sub>=-11.85 M<sub>y</sub>=-9.31 T<sub>y</sub>=2.53 M<sub>z</sub>=1.02 M<sub>x</sub>=-5.38  
 Tensioni:  $\sigma_N=-343.66$   $\sigma_M=-35.19$   $\tau=11.64$   $\sigma_{max}=-378.85$   
 Tensioni:  $\sigma_N=-343.66$   $\sigma_M=3.13$   $\tau=13.82$   $\tau_{max}=13.82$   
 Tensioni:  $\sigma_N=-343.66$   $\sigma_M=-35.19$   $\tau=11.64$   $\sigma_{ID,max}=379.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 68 SLU Xl=0.01  
 Sollecitazioni: N=-2843.99 T<sub>z</sub>=-17.01 M<sub>y</sub>=-8.06 T<sub>y</sub>=2.99 M<sub>z</sub>=9.71  
 V,Ed=2.99 Vc,Rd,Red=7728.87 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-17.01 Vc,Rd,Red=7728.87 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2231.41 T<sub>z</sub>=16.00 M<sub>y</sub>=-5.20 T<sub>y</sub>=4.66 M<sub>z</sub>=2.60 M<sub>x</sub>=-8.48  
 Tensioni:  $\sigma_N=-183.50$   $\sigma_M=-26.60$   $\tau=18.35$   $\sigma_{max}=-210.10$   
 Tensioni:  $\sigma_N=-183.50$   $\sigma_M=-7.98$   $\tau=21.30$   $\tau_{max}=21.30$   
 Tensioni:  $\sigma_N=-183.50$   $\sigma_M=-26.60$   $\tau=18.35$   $\sigma_{ID,max}=212.49$

Asta n. 4999 (-14180 -14114) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4475.88 M<sub>y,Ed</sub>=-7.82 M<sub>z,Ed</sub>=0.34  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.01+0.00=0.17  
 Verifica ZZ: 0.16+0.01+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-4191.70 T<sub>z</sub>=-15.07 M<sub>y</sub>=-7.63 T<sub>y</sub>=3.39 M<sub>z</sub>=1.07 M<sub>x</sub>=-9.86  
 Tensioni:  $\sigma_N=-344.71$   $\sigma_M=-29.63$   $\tau=21.34$   $\sigma_{max}=-374.34$   
 Tensioni:  $\sigma_N=-344.71$   $\sigma_M=3.28$   $\tau=24.12$   $\tau_{max}=24.12$   
 Tensioni:  $\sigma_N=-344.71$   $\sigma_M=-29.63$   $\tau=21.34$   $\sigma_{ID,max}=376.16$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 115 SLU Xl=0.00  
 Sollecitazioni: N=-1957.58 T<sub>z</sub>=16.37 M<sub>y</sub>=-2.53 T<sub>y</sub>=1.95 M<sub>z</sub>=-8.23  
 V,Ed=1.95 Vc,Rd,Red=7748.36 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=16.37 Vc,Rd,Red=7748.36 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-2226.18 T<sub>z</sub>=20.23 M<sub>y</sub>=-6.09 T<sub>y</sub>=8.44 M<sub>z</sub>=2.29 M<sub>x</sub>=-9.48  
 Tensioni:  $\sigma_N=-183.07$   $\sigma_M=-28.55$   $\tau=20.51$   $\sigma_{max}=-211.62$   
 Tensioni:  $\sigma_N=-183.07$   $\sigma_M=-7.03$   $\tau=24.24$   $\tau_{max}=24.24$   
 Tensioni:  $\sigma_N=-183.07$   $\sigma_M=-28.55$   $\tau=20.51$   $\sigma_{ID,max}=214.58$

Asta n. 4999 (-14114 -14069) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4486.04 M<sub>y,Ed</sub>=-13.56 M<sub>z,Ed</sub>=-0.09  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.16+0.02+0.00=0.18  
 Verifica ZZ: 0.16+0.01+0.00=0.18

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.02 - Classe 3  
 Sollecitazioni: N=-4199.86 T<sub>z</sub>=29.32 M<sub>y</sub>=-6.54 T<sub>y</sub>=-4.91 M<sub>z</sub>=1.03 M<sub>x</sub>=-14.30

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Tensioni:  $\sigma_N=-345.38$   $\sigma_M=-25.78$   $\tau=30.95$   $\sigma_{max}=-371.17$   
 Tensioni:  $\sigma_N=-345.38$   $\sigma_M=-3.14$   $\tau=36.36$   $\tau_{max}=36.36$   
 Tensioni:  $\sigma_N=-345.38$   $\sigma_M=-25.78$   $\tau=30.95$   $\sigma_{ID,max}=375.02$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3578.95$   $T_z=68.06$   $M_y=-11.82$   $T_y=-3.64$   $M_x=-14.95$   
 $V,Ed=-3.64$   $V_c,Rd,Red=7659.82$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=68.06$   $V_c,Rd,Red=7659.82$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2225.60$   $T_z=51.80$   $M_y=-12.26$   $T_y=18.55$   $M_x=-10.71$   
 Tensioni:  $\sigma_N=-183.03$   $\sigma_M=-41.79$   $\tau=23.18$   $\sigma_{max}=-224.82$   
 Tensioni:  $\sigma_N=-183.03$   $\sigma_M=0.00$   $\tau=32.75$   $\tau_{max}=32.75$   
 Tensioni:  $\sigma_N=-183.03$   $\sigma_M=-41.79$   $\tau=26.60$   $\sigma_{ID,max}=229.49$

Asta n. 4999 (-14069 -13979) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4482.13$   $M_y,Ed=-21.32$   $M_z,Ed=2.23$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.03+0.00=0.19$   
 Verifica ZZ:  $0.16+0.02+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=5175.03$   $T_z=18.49$   $M_y=-16.78$   $T_y=37.02$   $M_z=3.41$   $M_x=-10.11$   
 Tensioni:  $\sigma_N=425.58$   $\sigma_M=68.80$   $\tau=21.87$   $\sigma_{max}=494.38$   
 Tensioni:  $\sigma_N=425.58$   $\sigma_M=-51.47$   $\tau=28.71$   $\tau_{max}=28.71$   
 Tensioni:  $\sigma_N=425.58$   $\sigma_M=68.80$   $\tau=21.87$   $\sigma_{ID,max}=495.83$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU  $X_l=0.00$   
 Sollecitazioni:  $N=-3578.48$   $T_z=69.08$   $M_y=-21.57$   $T_y=5.44$   $M_x=-15.53$   
 $V,Ed=5.44$   $V_c,Rd,Red=7652.20$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=69.08$   $V_c,Rd,Red=7652.20$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2227.41$   $T_z=53.40$   $M_y=-20.04$   $T_y=61.40$   $M_z=4.94$   $M_x=-10.66$   
 Tensioni:  $\sigma_N=-183.18$   $\sigma_M=-85.11$   $\tau=23.06$   $\sigma_{max}=-268.29$   
 Tensioni:  $\sigma_N=-183.18$   $\sigma_M=-61.44$   $\tau=34.41$   $\tau_{max}=34.41$   
 Tensioni:  $\sigma_N=-183.18$   $\sigma_M=-83.43$   $\tau=31.01$   $\sigma_{ID,max}=271.96$

Asta n. 4999 (-13979 -13909) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4370.58$   $M_y,Ed=-110.06$   $M_z,Ed=-2.40$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.16+0.14+0.00=0.30$   
 Verifica ZZ:  $0.16+0.11+0.00=0.27$

- Verifica in termini tensionali [4.2.4] - CC 75 SLU  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=-4370.56$   $T_z=-213.66$   $M_y=-110.06$   $T_y=-37.64$   $M_z=1.28$   $M_x=25.74$   
 Tensioni:  $\sigma_N=-359.42$   $\sigma_M=-379.40$   $\tau=55.71$   $\sigma_{max}=-738.83$   
 Tensioni:  $\sigma_N=-359.42$   $\sigma_M=-3.94$   $\tau=95.17$   $\tau_{max}=95.17$   
 Tensioni:  $\sigma_N=-359.42$   $\sigma_M=-378.97$   $\tau=60.58$   $\sigma_{ID,max}=745.81$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.05$   
 Sollecitazioni:  $N=-4370.57$   $T_z=-214.35$   $M_y=-98.65$   $T_y=-37.64$   $M_x=25.74$   
 $V,Ed=-37.64$   $V_c,Rd,Red=7517.88$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-214.35 Vc,Rd,Red=7517.88 V,Ed/Vc,Rd,Red=0.03
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2184.81 T<sub>z</sub>=-100.37 M<sub>y</sub>=-46.00 T<sub>y</sub>=-62.16 M<sub>z</sub>=9.27 M<sub>x</sub>=13.69  
Tensioni:  $\sigma_N$ =-179.67  $\sigma_M$ =-188.31  $\tau$ =29.63  $\sigma_{max}$ =-367.98  
Tensioni:  $\sigma_N$ =-179.67  $\sigma_M$ =-28.42  $\tau$ =48.17  $\tau_{max}$ =48.17  
Tensioni:  $\sigma_N$ =-179.67  $\sigma_M$ =-188.31  $\tau$ =29.63  $\sigma_{ID,max}$ =371.54

Asta n. 4999 (-13909 -13841) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4320.15 My,Ed=-78.70 Mz,Ed=-3.04  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.10+0.00=0.26  
Verifica ZZ: 0.16+0.08+0.00=0.24

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=-4320.13 T<sub>z</sub>=-189.29 M<sub>y</sub>=-78.70 T<sub>y</sub>=14.29 M<sub>z</sub>=-3.04 M<sub>x</sub>=22.72  
Tensioni:  $\sigma_N$ =-355.27  $\sigma_M$ =-278.56  $\tau$ =49.18  $\sigma_{max}$ =-633.83  
Tensioni:  $\sigma_N$ =-355.27  $\sigma_M$ =9.33  $\tau$ =84.14  $\tau_{max}$ =84.14  
Tensioni:  $\sigma_N$ =-355.27  $\sigma_M$ =-278.56  $\tau$ =49.18  $\sigma_{ID,max}$ =639.53

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-4043.20 T<sub>z</sub>=-177.32 M<sub>y</sub>=-60.22 T<sub>y</sub>=10.47 M<sub>x</sub>=25.35  
V,Ed=10.47 Vc,Rd,Red=7523.02 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-177.32 Vc,Rd,Red=7523.02 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2156.87 T<sub>z</sub>=-89.54 M<sub>y</sub>=-31.76 T<sub>y</sub>=21.44 M<sub>z</sub>=-4.97 M<sub>x</sub>=12.81  
Tensioni:  $\sigma_N$ =-177.37  $\sigma_M$ =-125.15  $\tau$ =27.72  $\sigma_{max}$ =-302.53  
Tensioni:  $\sigma_N$ =-177.37  $\sigma_M$ =15.25  $\tau$ =44.26  $\tau_{max}$ =44.26  
Tensioni:  $\sigma_N$ =-177.37  $\sigma_M$ =-125.15  $\tau$ =27.72  $\sigma_{ID,max}$ =306.31

Asta n. 4999 (-13841 -13775) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4223.93 My,Ed=-51.90 Mz,Ed=-2.61  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25462900.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25462900.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.16+0.06+0.00=0.22  
Verifica ZZ: 0.16+0.05+0.00=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=5317.78 T<sub>z</sub>=-73.89 M<sub>y</sub>=-35.81 T<sub>y</sub>=18.73 M<sub>z</sub>=-1.86 M<sub>x</sub>=12.68  
Tensioni:  $\sigma_N$ =437.32  $\sigma_M$ =128.37  $\tau$ =27.44  $\sigma_{max}$ =565.69  
Tensioni:  $\sigma_N$ =437.32  $\sigma_M$ =5.70  $\tau$ =41.09  $\tau_{max}$ =41.09  
Tensioni:  $\sigma_N$ =437.32  $\sigma_M$ =128.37  $\tau$ =27.44  $\sigma_{ID,max}$ =567.68

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-4223.93 T<sub>z</sub>=-120.84 M<sub>y</sub>=-40.15 T<sub>y</sub>=18.97 M<sub>x</sub>=16.31  
V,Ed=18.97 Vc,Rd,Red=7641.96 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-120.84 Vc,Rd,Red=7641.96 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-2111.46 T<sub>z</sub>=-57.29 M<sub>y</sub>=-20.47 T<sub>y</sub>=12.09 M<sub>z</sub>=-3.61 M<sub>x</sub>=10.71  
Tensioni:  $\sigma_N$ =-173.64  $\sigma_M$ =-82.06  $\tau$ =23.18  $\sigma_{max}$ =-255.70  
Tensioni:  $\sigma_N$ =-173.64  $\sigma_M$ =11.07  $\tau$ =33.77  $\tau_{max}$ =33.77  
Tensioni:  $\sigma_N$ =-173.64  $\sigma_M$ =-82.06  $\tau$ =23.18  $\sigma_{ID,max}$ =258.84

Asta n. 4999 (-13775 -13709) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4168.67 My,Ed=-34.40 Mz,Ed=-0.93  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.04+0.00=0.20  
 Verifica ZZ: 0.15+0.03+0.00=0.19
  - Verifica in termini tensionali [4.2.4] - CC 74 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3366.86 Tz=-83.83 My=-26.57 Ty=6.66 Mz=-1.25 Mx=7.76  
 Tensioni:  $\sigma_N=-276.88$   $\sigma_M=-94.80$   $\tau=16.78$   $\sigma_{max}=-371.68$   
 Tensioni:  $\sigma_N=-276.88$   $\sigma_M=3.83$   $\tau=32.27$   $\tau_{max}=32.27$   
 Tensioni:  $\sigma_N=-276.88$   $\sigma_M=-94.80$   $\tau=16.78$   $\sigma_{ID,max}=372.81$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-4168.67 Tz=-109.57 My=-23.76 Ty=7.77 Mz=10.04  
 V,Ed=7.77 Vc,Rd,Red=7724.53 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-109.57 Vc,Rd,Red=7724.53 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2079.76 Tz=-48.67 My=-14.42 Ty=5.65 Mz=-2.74 Mx=8.62  
 Tensioni:  $\sigma_N=-171.03$   $\sigma_M=-58.48$   $\tau=18.66$   $\sigma_{max}=-229.51$   
 Tensioni:  $\sigma_N=-171.03$   $\sigma_M=8.42$   $\tau=27.65$   $\tau_{max}=27.65$   
 Tensioni:  $\sigma_N=-171.03$   $\sigma_M=-58.48$   $\tau=18.66$   $\sigma_{ID,max}=231.78$

Asta n. 4999 (-13709 -13643) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4166.27 My,Ed=-19.53 Mz,Ed=-0.30  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.02+0.00=0.18  
 Verifica ZZ: 0.15+0.02+0.00=0.17
  - Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2924.37 Tz=-47.73 My=-19.40 Mz=1.15 Mx=6.87  
 Tensioni:  $\sigma_N=-240.49$   $\sigma_M=-70.05$   $\tau=14.87$   $\sigma_{max}=-310.54$   
 Tensioni:  $\sigma_N=-240.49$   $\sigma_M=-3.54$   $\tau=23.69$   $\tau_{max}=23.69$   
 Tensioni:  $\sigma_N=-240.49$   $\sigma_M=-70.05$   $\tau=14.87$   $\sigma_{ID,max}=311.61$
  - Verifica a taglio e torsione dir. Z [4.2.25] - CC 54 SLU Xl=0.10  
 Sollecitazioni: N=-3903.30 Tz=-63.44 My=-16.01 Mz=5.39  
 V,Ed=-63.44 Vc,Rd,Red=7785.64 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-2064.94 Tz=-27.49 My=-9.40 Ty=3.35 Mz=2.61 Mx=6.13  
 Tensioni:  $\sigma_N=-169.81$   $\sigma_M=-40.93$   $\tau=13.26$   $\sigma_{max}=-210.75$   
 Tensioni:  $\sigma_N=-169.81$   $\sigma_M=-8.01$   $\tau=18.34$   $\tau_{max}=18.34$   
 Tensioni:  $\sigma_N=-169.81$   $\sigma_M=-40.93$   $\tau=13.26$   $\sigma_{ID,max}=212.00$

Asta n. 4999 (-13643 -13577) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-4168.23 My,Ed=-10.37 Mz,Ed=-0.30  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.15+0.01+0.00=0.17

Verifica ZZ:  $0.15+0.01+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X1=0.07$  - Classe 3  
 Sollecitazioni:  $N=-3911.05$   $T_z=-59.64$   $M_y=-8.69$   $T_y=3.21$   $M_z=1.02$   $M_x=-1.11$   
 Tensioni:  $\sigma_N=-321.63$   $\sigma_M=-33.08$   $\tau=2.41$   $\sigma_{max}=-354.72$   
 Tensioni:  $\sigma_N=-321.63$   $\sigma_M=3.13$   $\tau=13.43$   $\tau_{max}=13.43$   
 Tensioni:  $\sigma_N=-321.63$   $\sigma_M=-33.08$   $\tau=2.41$   $\sigma_{ID,max}=354.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.06$   
 Sollecitazioni:  $N=-3911.04$   $T_z=-59.52$   $M_y=-9.22$   $T_y=3.21$   $M_x=-1.11$   
 $V,Ed=3.21$   $Vc,Rd,Red=7841.93$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-59.52$   $Vc,Rd,Red=7841.93$   $V,Ed/Vc,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-2051.74$   $T_z=-25.17$   $M_y=-5.86$   $T_y=4.40$   $M_z=2.52$   $M_x=-6.68$   
 Tensioni:  $\sigma_N=-168.73$   $\sigma_M=-28.57$   $\tau=14.45$   $\sigma_{max}=-197.30$   
 Tensioni:  $\sigma_N=-168.73$   $\sigma_M=7.73$   $\tau=19.10$   $\tau_{max}=19.10$   
 Tensioni:  $\sigma_N=-168.73$   $\sigma_M=-28.57$   $\tau=14.45$   $\sigma_{ID,max}=198.88$

Asta n. 4999 (-13577 -13511) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4164.60$   $M_y,Ed=-2.76$   $M_z,Ed=0.60$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.00=0.16$   
 Verifica ZZ:  $0.15+0.00+0.00=0.16$

- Verifica a compressione [4.2.9] - CC 75 SLU  $X1=0.10$  - Classe 1  
 Sollecitazioni:  $N=-4164.60$   $T_z=-24.06$   $T_y=7.70$   $M_x=-11.20$   
 $N,Ed=-4164.60$   $Nc,Rd=-27215.20$   $N,Ed/Nc,Rd=0.15$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.01$   
 Sollecitazioni:  $N=-3912.26$   $T_z=-33.23$   $M_y=-4.28$   $T_y=6.50$   $M_x=-7.63$   
 $V,Ed=6.50$   $Vc,Rd,Red=7756.17$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-33.23$   $Vc,Rd,Red=7756.17$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-2037.76$   $T_z=-22.40$   $M_y=3.20$   $T_y=6.90$   $M_z=2.32$   $M_x=-8.38$   
 Tensioni:  $\sigma_N=-167.58$   $\sigma_M=-18.81$   $\tau=18.14$   $\sigma_{max}=-186.39$   
 Tensioni:  $\sigma_N=-167.58$   $\sigma_M=7.11$   $\tau=22.28$   $\tau_{max}=22.28$   
 Tensioni:  $\sigma_N=-167.58$   $\sigma_M=-18.81$   $\tau=18.14$   $\sigma_{ID,max}=189.02$

Asta n. 4999 (-13511 -13441) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-4147.99$   $M_y,Ed=2.98$   $M_z,Ed=1.37$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.15+0.00+0.00=0.16$   
 Verifica ZZ:  $0.15+0.00+0.00=0.16$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.04$  - Classe 3  
 Sollecitazioni:  $N=5408.48$   $T_z=-15.22$   $M_y=-1.51$   $T_y=7.65$   $M_z=1.06$   $M_x=-9.16$   
 Tensioni:  $\sigma_N=444.78$   $\sigma_M=8.75$   $\tau=19.83$   $\sigma_{max}=453.52$   
 Tensioni:  $\sigma_N=444.78$   $\sigma_M=3.25$   $\tau=22.64$   $\tau_{max}=22.64$   
 Tensioni:  $\sigma_N=444.78$   $\sigma_M=8.75$   $\tau=19.83$   $\sigma_{ID,max}=454.82$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 60 SLU  $X1=0.02$   
 Sollecitazioni:  $N=-2924.84$   $T_z=-36.50$   $T_y=7.27$   $M_z=1.63$   $M_x=-6.25$

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V,Ed=7.27 Vc,Rd,Red=7774.35 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-36.50 Vc,Rd,Red=7774.35 V,Ed/Vc,Rd,Red=0.00
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2021.40 T<sub>z</sub>=-24.62 M<sub>y</sub>=4.63 T<sub>y</sub>=11.81 M<sub>z</sub>=2.12 M<sub>x</sub>=-9.54  
Tensioni:  $\sigma_N$ =-166.23  $\sigma_M$ =-23.00  $\tau$ =20.65  $\sigma_{max}$ =-189.23  
Tensioni:  $\sigma_N$ =-166.23  $\sigma_M$ =6.49  $\tau$ =25.20  $\tau_{max}$ =25.20  
Tensioni:  $\sigma_N$ =-166.23  $\sigma_M$ =-23.00  $\tau$ =20.65  $\sigma_{ID,max}$ =192.58

Asta n. 4999 (-13441 -13369) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4115.09 M<sub>y</sub>,Ed=3.49 M<sub>z</sub>,Ed=1.81  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.00=0.16  
Verifica ZZ: 0.15+0.00+0.00=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5447.90 T<sub>z</sub>=22.98 M<sub>y</sub>=-2.97 T<sub>y</sub>=10.43 M<sub>z</sub>=2.13 M<sub>x</sub>=-12.18  
Tensioni:  $\sigma_N$ =448.02  $\sigma_M$ =17.38  $\tau$ =26.36  $\sigma_{max}$ =465.39  
Tensioni:  $\sigma_N$ =448.02  $\sigma_M$ =-6.54  $\tau$ =30.61  $\tau_{max}$ =30.61  
Tensioni:  $\sigma_N$ =448.02  $\sigma_M$ =17.38  $\tau$ =26.36  $\sigma_{ID,max}$ =467.63

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.00  
Sollecitazioni: N=-3330.60 T<sub>z</sub>=35.82 T<sub>y</sub>=3.82 M<sub>z</sub>=1.15 M<sub>x</sub>=-18.00  
V,Ed=3.82 Vc,Rd,Red=7619.81 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=35.82 Vc,Rd,Red=7619.81 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-2005.28 T<sub>z</sub>=42.32 M<sub>y</sub>=7.65 T<sub>y</sub>=24.29 M<sub>z</sub>=1.09 M<sub>x</sub>=-10.84  
Tensioni:  $\sigma_N$ =-164.91  $\sigma_M$ =-29.77  $\tau$ =23.46  $\sigma_{max}$ =-194.68  
Tensioni:  $\sigma_N$ =-164.91  $\sigma_M$ =-3.34  $\tau$ =31.27  $\tau_{max}$ =31.27  
Tensioni:  $\sigma_N$ =-164.91  $\sigma_M$ =-29.77  $\tau$ =23.46  $\sigma_{ID,max}$ =198.87

Asta n. 4999 (-13369 -13302) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-4065.24 M<sub>y</sub>,Ed=-2.54 M<sub>z</sub>,Ed=5.22  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.15+0.00+0.01=0.16  
Verifica ZZ: 0.15+0.00+0.01=0.16

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5540.52 T<sub>z</sub>=11.49 M<sub>y</sub>=-4.99 T<sub>y</sub>=42.35 M<sub>z</sub>=5.55 M<sub>x</sub>=-12.63  
Tensioni:  $\sigma_N$ =455.63  $\sigma_M$ =35.90  $\tau$ =27.34  $\sigma_{max}$ =491.54  
Tensioni:  $\sigma_N$ =455.63  $\sigma_M$ =-15.30  $\tau$ =35.16  $\tau_{max}$ =35.16  
Tensioni:  $\sigma_N$ =455.63  $\sigma_M$ =35.90  $\tau$ =27.34  $\sigma_{ID,max}$ =493.81

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.01  
Sollecitazioni: N=-2426.62 T<sub>z</sub>=9.51 T<sub>y</sub>=61.76 M<sub>z</sub>=1.71 M<sub>x</sub>=1.07  
V,Ed=61.76 Vc,Rd,Red=7842.52 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=9.51 Vc,Rd,Red=7842.52 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1991.29 T<sub>z</sub>=50.02 M<sub>y</sub>=-14.50 T<sub>y</sub>=74.61 M<sub>z</sub>=7.14 M<sub>x</sub>=-10.94  
Tensioni:  $\sigma_N$ =-163.76  $\sigma_M$ =-73.73  $\tau$ =23.67  $\sigma_{max}$ =-237.49



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Tensioni:  $\sigma_N=-163.76$   $\sigma_M=-44.48$   $\tau=37.45$   $\tau_{max}=37.45$   
 Tensioni:  $\sigma_N=-163.76$   $\sigma_M=-71.30$   $\tau=33.33$   $\sigma_{ID,max}=242.04$

Asta n. 4999 (-13302 -13233) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3767.10 My,Ed=-124.99 Mz,Ed=-6.31  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.14+0.15+0.01=0.30  
 Verifica ZZ: 0.14+0.12+0.01=0.27
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=5791.69 Tz=-138.98 My=-82.21 Ty=51.96 Mz=-7.76 Mx=14.64  
 Tensioni:  $\sigma_N=476.29$   $\sigma_M=306.58$   $\tau=31.69$   $\sigma_{max}=782.88$   
 Tensioni:  $\sigma_N=476.29$   $\sigma_M=23.79$   $\tau=57.36$   $\tau_{max}=57.36$   
 Tensioni:  $\sigma_N=476.29$   $\sigma_M=306.58$   $\tau=31.69$   $\sigma_{ID,max}=784.80$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.10  
 Sollecitazioni: N=-1712.13 Tz=-114.57 My=-52.49 Ty=11.41 Mx=14.30  
 V,Ed=11.41 Vc,Rd,Red=7668.43 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-114.57 Vc,Rd,Red=7668.43 V,Ed/Vc,Rd,Red=0.01
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1879.29 Tz=-107.84 My=-51.53 Ty=65.27 Mz=-10.93 Mx=11.05  
 Tensioni:  $\sigma_N=-154.55$   $\sigma_M=-212.83$   $\tau=23.90$   $\sigma_{max}=-367.38$   
 Tensioni:  $\sigma_N=-154.55$   $\sigma_M=33.51$   $\tau=43.83$   $\tau_{max}=43.83$   
 Tensioni:  $\sigma_N=-154.55$   $\sigma_M=-212.83$   $\tau=23.90$   $\sigma_{ID,max}=369.70$

Asta n. 4999 (-13233 -13164) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3666.89 My,Ed=-90.38 Mz,Ed=-4.90  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.13+0.11+0.01=0.25  
 Verifica ZZ: 0.13+0.09+0.01=0.23
  - Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=5812.37 Tz=-151.67 My=-60.77 Ty=37.37 Mz=-4.21 Mx=12.40  
 Tensioni:  $\sigma_N=477.99$   $\sigma_M=221.42$   $\tau=26.84$   $\sigma_{max}=699.41$   
 Tensioni:  $\sigma_N=477.99$   $\sigma_M=12.91$   $\tau=54.86$   $\tau_{max}=54.86$   
 Tensioni:  $\sigma_N=477.99$   $\sigma_M=221.42$   $\tau=26.84$   $\sigma_{ID,max}=700.96$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-3460.36 Tz=-213.72 My=-67.99 Ty=32.93 Mx=16.53  
 V,Ed=32.93 Vc,Rd,Red=7639.09 V,Ed/Vc,Rd,Red=0.00
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-213.72 Vc,Rd,Red=7639.09 V,Ed/Vc,Rd,Red=0.03
  - Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1832.22 Tz=-101.81 My=-35.91 Ty=33.04 Mz=-5.73 Mx=9.99  
 Tensioni:  $\sigma_N=-150.68$   $\sigma_M=-141.89$   $\tau=21.62$   $\sigma_{max}=-292.56$   
 Tensioni:  $\sigma_N=-150.68$   $\sigma_M=17.57$   $\tau=40.43$   $\tau_{max}=40.43$   
 Tensioni:  $\sigma_N=-150.68$   $\sigma_M=-141.89$   $\tau=21.62$   $\sigma_{ID,max}=294.95$

Asta n. 4999 (-13164 -13095) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3604.85 My,Ed=-59.99 Mz,Ed=-1.78  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY:  $0.13+0.07+0.00=0.21$

Verifica ZZ:  $0.13+0.06+0.00=0.19$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=5850.55 T<sub>z</sub>=-92.37 M<sub>y</sub>=-39.65 T<sub>y</sub>=15.31 M<sub>z</sub>=-1.15 M<sub>x</sub>=7.96  
 Tensioni:  $\sigma_N=481.13$   $\sigma_M=139.04$   $\tau=17.23$   $\sigma_{max}=620.17$   
 Tensioni:  $\sigma_N=481.13$   $\sigma_M=3.54$   $\tau=34.29$   $\tau_{max}=34.29$   
 Tensioni:  $\sigma_N=481.13$   $\sigma_M=139.04$   $\tau=17.23$   $\sigma_{ID,max}=620.89$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-3604.85 T<sub>z</sub>=-148.68 M<sub>y</sub>=-45.52 T<sub>y</sub>=15.29 M<sub>x</sub>=11.18  
 V,Ed=15.29 Vc,Rd,Red=7709.49 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-148.68 Vc,Rd,Red=7709.49 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1793.53 T<sub>z</sub>=-67.36 M<sub>y</sub>=-23.48 T<sub>y</sub>=13.03 M<sub>z</sub>=-3.19 M<sub>x</sub>=7.94  
 Tensioni:  $\sigma_N=-147.49$   $\sigma_M=-90.86$   $\tau=17.18$   $\sigma_{max}=-238.36$   
 Tensioni:  $\sigma_N=-147.49$   $\sigma_M=9.77$   $\tau=29.62$   $\tau_{max}=29.62$   
 Tensioni:  $\sigma_N=-147.49$   $\sigma_M=-90.86$   $\tau=17.18$   $\sigma_{ID,max}=240.21$

Asta n. 4999 (-13095 -13025) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3593.72 M<sub>y,Ed</sub>=-38.69 M<sub>z,Ed</sub>=-0.67  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY:  $0.13+0.05+0.00=0.18$   
 Verifica ZZ:  $0.13+0.04+0.00=0.17$

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-3365.65 T<sub>z</sub>=-119.07 M<sub>y</sub>=-40.36 T<sub>y</sub>=3.82 M<sub>x</sub>=8.83  
 M<sub>y,Ed</sub>=-40.36 M<sub>y,c,Rd</sub>=776.35  
 N,Ed=-3365.65 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.12  
 M<sub>Ny,c,Rd</sub>=776.35 M<sub>y,Ed/MNy,c,Rd</sub>=0.05

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-3593.72 T<sub>z</sub>=-127.63 M<sub>y</sub>=-26.27 T<sub>y</sub>=5.46 M<sub>x</sub>=4.45  
 V,Ed=5.46 Vc,Rd,Red=7798.04 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-127.63 Vc,Rd,Red=7798.04 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1771.32 T<sub>z</sub>=-55.48 M<sub>y</sub>=-16.09 T<sub>y</sub>=6.19 M<sub>z</sub>=-2.37 M<sub>x</sub>=5.88  
 Tensioni:  $\sigma_N=-145.67$   $\sigma_M=-62.89$   $\tau=12.73$   $\sigma_{max}=-208.56$   
 Tensioni:  $\sigma_N=-145.67$   $\sigma_M=7.26$   $\tau=22.98$   $\tau_{max}=22.98$   
 Tensioni:  $\sigma_N=-145.67$   $\sigma_M=-62.89$   $\tau=12.73$   $\sigma_{ID,max}=209.72$

Asta n. 4999 (-13025 -12942) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3591.93 M<sub>y,Ed</sub>=-21.09 M<sub>z,Ed</sub>=-0.45  
 Resistenze: Nc,Rd=27215.20 M<sub>y,c,Rd</sub>=656.79 M<sub>z,c,Rd</sub>=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY:  $0.13+0.03+0.00=0.16$   
 Verifica ZZ:  $0.13+0.02+0.00=0.15$

- Verifica in termini tensionali [4.2.4] - CC 60 SLU Xl=0.10 - Classe 3

Sollecitazioni:  $N=-2527.78$   $T_x=-65.65$   $M_y=-14.14$   $T_y=1.89$   $M_z=1.01$   $M_x=4.81$

Tensioni:  $\sigma_N=-207.88$   $\sigma_M=-51.63$   $\tau=10.40$   $\sigma_{max}=-259.50$

Tensioni:  $\sigma_N=-207.88$   $\sigma_M=-3.09$   $\tau=22.53$   $\tau_{max}=22.53$

Tensioni:  $\sigma_N=-207.88$   $\sigma_M=-51.63$   $\tau=10.40$   $\sigma_{ID,max}=260.13$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.10$

Sollecitazioni:  $N=-3591.93$   $T_x=-85.33$   $M_y=-12.81$   $T_y=4.56$   $M_z=-3.36$

$V,Ed=4.56$   $V_c,Rd,Red=7812.43$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-85.33$   $V_c,Rd,Red=7812.43$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-1752.87$   $T_x=-35.05$   $M_y=-10.38$   $T_y=4.93$   $M_z=2.14$   $M_x=-6.36$

Tensioni:  $\sigma_N=-144.15$   $\sigma_M=-42.63$   $\tau=13.77$   $\sigma_{max}=-186.78$

Tensioni:  $\sigma_N=-144.15$   $\sigma_M=6.55$   $\tau=20.25$   $\tau_{max}=20.25$

Tensioni:  $\sigma_N=-144.15$   $\sigma_M=-42.63$   $\tau=13.77$   $\sigma_{ID,max}=188.30$

Asta n. 4999 (-12942 -12864) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-3589.22$   $M_y,Ed=-8.84$   $M_z,Ed=-0.34$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.13+0.01+0.00=0.14$

Verifica ZZ:  $0.13+0.01+0.00=0.14$

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.09$  - Classe 3

Sollecitazioni:  $N=-3375.79$   $T_x=-76.27$   $M_y=-4.64$   $T_y=4.92$   $M_z=1.01$   $M_x=-5.41$

Tensioni:  $\sigma_N=-277.62$   $\sigma_M=-19.25$   $\tau=11.70$   $\sigma_{max}=-296.87$

Tensioni:  $\sigma_N=-277.62$   $\sigma_M=3.11$   $\tau=25.79$   $\tau_{max}=25.79$

Tensioni:  $\sigma_N=-277.62$   $\sigma_M=-19.25$   $\tau=11.70$   $\sigma_{ID,max}=297.56$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.08$

Sollecitazioni:  $N=-3375.79$   $T_x=-76.16$   $M_y=-5.31$   $T_y=4.92$   $M_x=-5.41$

$V,Ed=4.92$   $V_c,Rd,Red=7785.46$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-76.16$   $V_c,Rd,Red=7785.46$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3

Sollecitazioni:  $N=-1735.04$   $T_x=-30.80$   $M_y=-5.73$   $T_y=5.66$   $M_z=2.05$   $M_x=-8.25$

Tensioni:  $\sigma_N=-142.68$   $\sigma_M=-26.50$   $\tau=17.85$   $\sigma_{max}=-169.19$

Tensioni:  $\sigma_N=-142.68$   $\sigma_M=6.29$   $\tau=23.53$   $\tau_{max}=23.53$

Tensioni:  $\sigma_N=-142.68$   $\sigma_M=-26.50$   $\tau=17.85$   $\sigma_{ID,max}=171.99$

Asta n. 4999 (-12864 -12794) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-3578.45$   $M_y,Ed=6.00$   $M_z,Ed=0.87$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.13+0.01+0.00=0.14$

Verifica ZZ:  $0.13+0.01+0.00=0.14$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3

Sollecitazioni:  $N=5891.94$   $T_x=-20.52$   $M_y=2.18$   $T_y=7.56$   $M_z=1.10$   $M_x=-11.45$

Tensioni:  $\sigma_N=484.54$   $\sigma_M=11.19$   $\tau=24.79$   $\sigma_{max}=495.72$

Tensioni:  $\sigma_N=484.54$   $\sigma_M=3.37$   $\tau=28.58$   $\tau_{max}=28.58$

Tensioni:  $\sigma_N=484.54$   $\sigma_M=11.19$   $\tau=24.79$   $\sigma_{ID,max}=497.58$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_l=0.03$

Sollecitazioni:  $N=-3371.12$   $T_x=-55.92$   $M_y=1.00$   $T_y=8.71$   $M_x=-11.72$

$V,Ed=8.71$   $V_c,Rd,Red=7702.42$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-55.92 Vc,Rd,Red=7702.42 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1716.22 T<sub>z</sub>=-30.69 M<sub>y</sub>=4.75 T<sub>y</sub>=8.36 M<sub>z</sub>=1.86 M<sub>x</sub>=-10.33  
Tensioni:  $\sigma_N$ =-141.14  $\sigma_M$ =-22.52  $\tau$ =22.35  $\sigma_{max}$ =-163.66  
Tensioni:  $\sigma_N$ =-141.14  $\sigma_M$ =5.71  $\tau$ =28.02  $\tau_{max}$ =28.02  
Tensioni:  $\sigma_N$ =-141.14  $\sigma_M$ =-22.52  $\tau$ =22.35  $\sigma_{ID,max}$ =168.18

Asta n. 4999 (-12794 -12724) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-3552.25 M<sub>y</sub>,Ed=12.71 M<sub>z</sub>,Ed=1.89  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25462900.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25462900.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.02+0.00=0.15  
Verifica ZZ: 0.13+0.01+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5913.22 T<sub>z</sub>=-27.13 M<sub>y</sub>=6.10 T<sub>y</sub>=12.17 M<sub>z</sub>=1.82 M<sub>x</sub>=-14.32  
Tensioni:  $\sigma_N$ =486.29  $\sigma_M$ =26.97  $\tau$ =30.98  $\sigma_{max}$ =513.25  
Tensioni:  $\sigma_N$ =486.29  $\sigma_M$ =5.57  $\tau$ =35.99  $\tau_{max}$ =35.99  
Tensioni:  $\sigma_N$ =486.29  $\sigma_M$ =26.97  $\tau$ =30.98  $\sigma_{ID,max}$ =516.05

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.04  
Sollecitazioni: N=-3552.24 T<sub>z</sub>=-42.58 M<sub>y</sub>=10.03 T<sub>y</sub>=15.82 M<sub>x</sub>=-21.02  
V,Ed=15.82 Vc,Rd,Red=7579.98 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-42.58 Vc,Rd,Red=7579.98 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1694.63 T<sub>z</sub>=-32.33 M<sub>y</sub>=7.39 T<sub>y</sub>=14.25 M<sub>z</sub>=1.70 M<sub>x</sub>=-11.73  
Tensioni:  $\sigma_N$ =-139.36  $\sigma_M$ =-30.98  $\tau$ =25.38  $\sigma_{max}$ =-170.34  
Tensioni:  $\sigma_N$ =-139.36  $\sigma_M$ =5.21  $\tau$ =31.35  $\tau_{max}$ =31.35  
Tensioni:  $\sigma_N$ =-139.36  $\sigma_M$ =-30.98  $\tau$ =25.38  $\sigma_{ID,max}$ =175.92

Asta n. 4999 (-12724 -12653) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-3504.45 M<sub>y</sub>,Ed=15.84 M<sub>z</sub>,Ed=2.91  
Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda^*_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda^*_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
K<sub>yy</sub>, K<sub>yz</sub>, K<sub>zy</sub>, K<sub>zz</sub>=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.13+0.02+0.00=0.15  
Verifica ZZ: 0.13+0.02+0.00=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=5957.08 T<sub>z</sub>=9.00 M<sub>y</sub>=5.85 T<sub>y</sub>=22.40 M<sub>z</sub>=3.32 M<sub>x</sub>=-17.24  
Tensioni:  $\sigma_N$ =489.89  $\sigma_M$ =31.24  $\tau$ =37.32  $\sigma_{max}$ =521.14  
Tensioni:  $\sigma_N$ =489.89  $\sigma_M$ =17.94  $\tau$ =41.46  $\tau_{max}$ =41.46  
Tensioni:  $\sigma_N$ =489.89  $\sigma_M$ =31.24  $\tau$ =37.32  $\sigma_{ID,max}$ =525.13

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 88 SLU Xl=0.00  
Sollecitazioni: N=-2078.32 T<sub>z</sub>=-11.92 M<sub>y</sub>=7.62 T<sub>y</sub>=27.17 M<sub>x</sub>=1.10  
V,Ed=27.17 Vc,Rd,Red=7842.12 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-11.92 Vc,Rd,Red=7842.12 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=-1671.97 T<sub>z</sub>=-34.77 M<sub>y</sub>=11.97 T<sub>y</sub>=29.59 M<sub>z</sub>=1.96 M<sub>x</sub>=-13.19  
Tensioni:  $\sigma_N$ =-137.50  $\sigma_M$ =-47.48  $\tau$ =28.54  $\sigma_{max}$ =-184.97  
Tensioni:  $\sigma_N$ =-137.50  $\sigma_M$ =6.02  $\tau$ =34.96  $\tau_{max}$ =34.96

Tensioni:  $\sigma_N=-137.50$   $\sigma_M=-47.48$   $\tau=28.54$   $\sigma_{ID,max}=191.46$

Asta n. 4999 (-12653 -12579) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3434.70 My,Ed=16.21 Mz,Ed=7.74  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.13+0.02+0.01=0.16  
 Verifica ZZ: 0.13+0.02+0.01=0.15

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=6055.63 My=5.60 Ty=74.56 Mz=9.34 Mx=-17.48  
 Tensioni:  $\sigma_N=498.00$   $\sigma_M=50.90$   $\tau=37.84$   $\sigma_{max}=548.90$   
 Tensioni:  $\sigma_N=498.00$   $\sigma_M=19.08$   $\tau=51.61$   $\tau_{max}=51.61$   
 Tensioni:  $\sigma_N=498.00$   $\sigma_M=50.90$   $\tau=37.84$   $\sigma_{ID,max}=552.80$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.00  
 Sollecitazioni: N=-2764.11 Tz=10.59 My=11.70 Ty=66.64 Mx=-20.13  
 V,Ed=66.64 Vc,Rd,Red=7591.74 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=10.59 Vc,Rd,Red=7591.74 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-1649.76 Tz=42.24 My=16.47 Ty=88.19 Mz=9.20 Mx=-13.24  
 Tensioni:  $\sigma_N=-135.67$   $\sigma_M=-87.48$   $\tau=28.66$   $\sigma_{max}=-223.15$   
 Tensioni:  $\sigma_N=-135.67$   $\sigma_M=50.52$   $\tau=44.95$   $\tau_{max}=44.95$   
 Tensioni:  $\sigma_N=-135.67$   $\sigma_M=-87.48$   $\tau=28.66$   $\sigma_{ID,max}=228.60$

Asta n. 4999 (-12579 -12524) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3037.71 My,Ed=-131.24 Mz,Ed=-8.60  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.16+0.01=0.29  
 Verifica ZZ: 0.11+0.13+0.01=0.25

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=6354.83 Tz=-144.07 My=-83.16 Ty=83.55 Mz=-11.39 Mx=8.45  
 Tensioni:  $\sigma_N=522.60$   $\sigma_M=322.18$   $\tau=18.28$   $\sigma_{max}=844.78$   
 Tensioni:  $\sigma_N=522.60$   $\sigma_M=34.94$   $\tau=44.91$   $\tau_{max}=44.91$   
 Tensioni:  $\sigma_N=522.60$   $\sigma_M=322.18$   $\tau=18.28$   $\sigma_{ID,max}=845.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 99 SLU Xl=0.10  
 Sollecitazioni: N=-1384.18 Tz=-121.87 My=-55.15 Ty=17.73 Mx=13.27  
 V,Ed=17.73 Vc,Rd,Red=7681.96 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-121.87 Vc,Rd,Red=7681.96 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1492.66 Tz=-109.98 My=-53.54 Ty=80.83 Mz=-12.39 Mx=9.03  
 Tensioni:  $\sigma_N=-122.75$   $\sigma_M=-224.68$   $\tau=19.55$   $\sigma_{max}=-347.44$   
 Tensioni:  $\sigma_N=-122.75$   $\sigma_M=38.00$   $\tau=39.88$   $\tau_{max}=39.88$   
 Tensioni:  $\sigma_N=-122.75$   $\sigma_M=-224.68$   $\tau=19.55$   $\sigma_{ID,max}=349.08$

Asta n. 4999 (-12524 -12415) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2916.92 My,Ed=-94.88 Mz,Ed=-5.82  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.11+0.12+0.01=0.23  
 Verifica ZZ: 0.11+0.09+0.01=0.21

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=6376.82 T<sub>z</sub>=-157.46 M<sub>y</sub>=-60.90 T<sub>y</sub>=48.72 M<sub>z</sub>=-5.32 M<sub>x</sub>=5.87  
 Tensioni:  $\sigma_N=524.41$   $\sigma_M=225.65$   $\tau=12.71$   $\sigma_{max}=750.06$   
 Tensioni:  $\sigma_N=524.41$   $\sigma_M=16.32$   $\tau=41.80$   $\tau_{max}=41.80$   
 Tensioni:  $\sigma_N=524.41$   $\sigma_M=225.65$   $\tau=12.71$   $\sigma_{ID,max}=750.38$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.10  
 Sollecitazioni: N=-2754.87 T<sub>z</sub>=-224.82 M<sub>y</sub>=-71.39 T<sub>y</sub>=40.46 M<sub>x</sub>=10.07  
 V,Ed=40.46 Vc,Rd,Red=7724.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-224.82 Vc,Rd,Red=7724.10 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1436.52 T<sub>z</sub>=-104.73 M<sub>y</sub>=-37.48 T<sub>y</sub>=39.74 M<sub>z</sub>=-5.99 M<sub>x</sub>=7.84  
 Tensioni:  $\sigma_N=-118.14$   $\sigma_M=-148.10$   $\tau=16.98$   $\sigma_{max}=-266.24$   
 Tensioni:  $\sigma_N=-118.14$   $\sigma_M=18.36$   $\tau=36.32$   $\tau_{max}=36.32$   
 Tensioni:  $\sigma_N=-118.14$   $\sigma_M=-148.10$   $\tau=16.98$   $\sigma_{ID,max}=267.86$

Asta n. 4999 (-12415 -12349) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2834.34 M<sub>y</sub>,Ed=-62.77 M<sub>z</sub>,Ed=-2.10  
 Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.10+0.08+0.00=0.18  
 Verifica ZZ: 0.10+0.06+0.00=0.17

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=6422.04 T<sub>z</sub>=-97.48 M<sub>y</sub>=-38.88 T<sub>y</sub>=19.96 M<sub>z</sub>=-1.55 M<sub>x</sub>=1.18  
 Tensioni:  $\sigma_N=528.13$   $\sigma_M=137.76$   $\tau=2.56$   $\sigma_{max}=665.89$   
 Tensioni:  $\sigma_N=528.13$   $\sigma_M=4.74$   $\tau=20.57$   $\tau_{max}=20.57$   
 Tensioni:  $\sigma_N=528.13$   $\sigma_M=137.76$   $\tau=2.56$   $\sigma_{ID,max}=665.91$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-2834.34 T<sub>z</sub>=-159.21 M<sub>y</sub>=-47.27 T<sub>y</sub>=19.46 M<sub>x</sub>=4.16  
 V,Ed=19.46 Vc,Rd,Red=7801.87 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-159.21 Vc,Rd,Red=7801.87 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-1388.25 T<sub>z</sub>=-70.78 M<sub>y</sub>=-24.42 T<sub>y</sub>=16.01 M<sub>z</sub>=-2.97 M<sub>x</sub>=6.02  
 Tensioni:  $\sigma_N=-114.17$   $\sigma_M=-93.34$   $\tau=13.03$   $\sigma_{max}=-207.50$   
 Tensioni:  $\sigma_N=-114.17$   $\sigma_M=9.12$   $\tau=26.11$   $\tau_{max}=26.11$   
 Tensioni:  $\sigma_N=-114.17$   $\sigma_M=-93.34$   $\tau=13.03$   $\sigma_{ID,max}=208.73$

Asta n. 4999 (-12349 -12281) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2806.84 M<sub>y</sub>,Ed=-39.84 M<sub>z</sub>,Ed=-0.77  
 Resistenze: Nc,Rd=27215.20 M<sub>y</sub>,c,Rd=656.79 M<sub>z</sub>,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463400.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463400.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.10+0.05+0.00=0.15  
 Verifica ZZ: 0.10+0.04+0.00=0.14

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
 Sollecitazioni: N=-2633.65 T<sub>z</sub>=-128.50 M<sub>y</sub>=-41.31 T<sub>y</sub>=5.73 M<sub>x</sub>=2.99

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My,Ed=-41.31 My,c,Rd=776.35  
N,Ed=-2633.65 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
MNy,c,Rd=776.35 My,Ed/MNy,c,Rd=0.05

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-2806.84 Tz=-136.65 My=-26.54 Ty=7.74 Mx=-2.98  
V,Ed=7.74 Vc,Rd,Red=7817.38 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-136.65 Vc,Rd,Red=7817.38 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1357.40 Tz=-58.43 My=-16.34 Ty=7.81 Mz=-1.98 Mx=-7.22  
Tensioni:  $\sigma_N$ =-111.63  $\sigma_M$ =-62.46  $\tau$ =15.62  $\sigma_{max}$ =-174.08  
Tensioni:  $\sigma_N$ =-111.63  $\sigma_M$ =-6.09  $\tau$ =26.41  $\tau_{max}$ =26.41  
Tensioni:  $\sigma_N$ =-111.63  $\sigma_M$ =-62.46  $\tau$ =15.62  $\sigma_{ID,max}$ =176.17

Asta n. 4999 (-12281 -12209) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2789.89 My,Ed=-20.78 Mz,Ed=-0.46  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.03+0.00=0.13  
Verifica ZZ: 0.10+0.02+0.00=0.12

- Verifica a pressoflessione retta - CC 54 SLU Xl=0.00 - Classe 1  
Sollecitazioni: N=-2626.04 Tz=-93.26 My=-23.12 Ty=4.10 Mx=-4.87  
My,Ed=-23.12 My,c,Rd=776.35  
N,Ed=-2626.04 Nc,Rd=27215.20 n=N,Ed/Nc,Rd=0.10  
MNy,c,Rd=776.35 My,Ed/MNy,c,Rd=0.03

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
Sollecitazioni: N=-2789.89 Tz=-94.97 My=-11.56 Ty=5.81 Mx=-11.07  
V,Ed=5.81 Vc,Rd,Red=7710.88 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-94.97 Vc,Rd,Red=7710.88 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=-1330.54 Tz=-37.81 My=-10.12 Ty=5.97 Mz=-1.66 Mx=-9.72  
Tensioni:  $\sigma_N$ =-109.42  $\sigma_M$ =-40.15  $\tau$ =21.04  $\sigma_{max}$ =-149.57  
Tensioni:  $\sigma_N$ =-109.42  $\sigma_M$ =-5.11  $\tau$ =28.03  $\tau_{max}$ =28.03  
Tensioni:  $\sigma_N$ =-109.42  $\sigma_M$ =-40.15  $\tau$ =21.04  $\sigma_{ID,max}$ =153.95

Asta n. 4999 (-12209 -12182) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni: N,Ed=-2772.14 My,Ed=-7.05 Mz,Ed=0.38  
Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95  
 $\lambda_y$ =3.15 Ncr,y=25463400.00  $\lambda'_y$ =0.03 Curva a:  $\Phi_y$ =0.00  $\chi_y$ =1.00  
 $\lambda_z$ =3.15 Ncr,z=25463400.00  $\lambda'_z$ =0.03 Curva a:  $\Phi_z$ =0.00  $\chi_z$ =1.00  
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.10+0.01+0.00=0.11  
Verifica ZZ: 0.10+0.01+0.00=0.11

- Verifica a trazione [4.2.5] - CC 45 SLU Xl=0.05 - Classe 1  
Sollecitazioni: N=6480.13 Tz=-52.81 Ty=6.52 Mx=-14.27  
N,Ed=6480.13 Npl,Rd=27215.20 Nu,Rd=31518.70 N,Ed/Nt,Rd=0.24

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.10  
Sollecitazioni: N=-2617.51 Tz=-85.66 My=-1.07 Ty=5.87 Mx=-11.83  
V,Ed=5.87 Vc,Rd,Red=7700.87 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-85.66 Vc,Rd,Red=7700.87 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1304.24$   $T_x=-33.44$   $M_y=-5.09$   $T_y=-2.24$   $M_z=-1.51$   $M_x=-11.97$   
 Tensioni:  $\sigma_N=-107.26$   $\sigma_M=-22.47$   $\tau=25.90$   $\sigma_{max}=-129.73$   
 Tensioni:  $\sigma_N=-107.26$   $\sigma_M=-4.62$   $\tau=32.08$   $\tau_{max}=32.08$   
 Tensioni:  $\sigma_N=-107.26$   $\sigma_M=-20.74$   $\tau=30.23$   $\sigma_{ID,max}=138.29$

Asta n. 4999 (-12182 -12058) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2746.15$   $M_y,Ed=10.65$   $M_z,Ed=0.98$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463400.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463400.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.01+0.00=0.12$   
 Verifica ZZ:  $0.10+0.01+0.00=0.11$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=6498.06$   $T_x=-25.60$   $M_y=6.05$   $T_y=10.40$   $M_z=1.19$   $M_x=-19.38$   
 Tensioni:  $\sigma_N=534.38$   $\sigma_M=24.67$   $\tau=41.94$   $\sigma_{max}=559.05$   
 Tensioni:  $\sigma_N=534.38$   $\sigma_M=3.64$   $\tau=46.67$   $\tau_{max}=46.67$   
 Tensioni:  $\sigma_N=534.38$   $\sigma_M=24.67$   $\tau=41.94$   $\sigma_{ID,max}=563.75$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_1=0.04$   
 Sollecitazioni:  $N=-2599.67$   $T_x=-67.49$   $M_y=5.96$   $T_y=9.75$   $M_x=-18.36$   
 $V,Ed=9.75$   $V_c,Rd,Red=7615.03$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-67.49$   $V_c,Rd,Red=7615.03$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1276.95$   $T_x=-32.56$   $M_y=6.08$   $T_y=9.35$   $M_z=1.28$   $M_x=-14.34$   
 Tensioni:  $\sigma_N=-105.01$   $\sigma_M=-25.07$   $\tau=31.03$   $\sigma_{max}=-130.09$   
 Tensioni:  $\sigma_N=-105.01$   $\sigma_M=3.93$   $\tau=37.05$   $\tau_{max}=37.05$   
 Tensioni:  $\sigma_N=-105.01$   $\sigma_M=-25.07$   $\tau=31.03$   $\sigma_{ID,max}=140.75$

Asta n. 4999 (-12058 -11933) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-2702.56$   $M_y,Ed=19.34$   $M_z,Ed=2.12$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_{y^*}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_{z^*}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10+0.02+0.00=0.13$   
 Verifica ZZ:  $0.10+0.02+0.00=0.12$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=6524.32$   $T_x=-31.14$   $M_y=10.61$   $T_y=18.82$   $M_z=2.21$   $M_x=-22.45$   
 Tensioni:  $\sigma_N=536.54$   $\sigma_M=43.68$   $\tau=48.59$   $\sigma_{max}=580.22$   
 Tensioni:  $\sigma_N=536.54$   $\sigma_M=6.78$   $\tau=54.34$   $\tau_{max}=54.34$   
 Tensioni:  $\sigma_N=536.54$   $\sigma_M=43.68$   $\tau=48.59$   $\sigma_{ID,max}=586.29$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X_1=0.00$   
 Sollecitazioni:  $N=-2561.56$   $T_x=-65.85$   $M_y=13.33$   $T_y=16.60$   $M_x=-22.60$   
 $V,Ed=16.60$   $V_c,Rd,Red=7559.25$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-65.85$   $V_c,Rd,Red=7559.25$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_1=0.10$  - Classe 3  
 Sollecitazioni:  $N=-1246.54$   $T_x=-33.85$   $M_y=8.84$   $T_y=15.88$   $M_z=1.18$   $M_x=-15.88$   
 Tensioni:  $\sigma_N=-102.51$   $\sigma_M=-34.13$   $\tau=34.38$   $\sigma_{max}=-136.65$   
 Tensioni:  $\sigma_N=-102.51$   $\sigma_M=3.62$   $\tau=40.63$   $\tau_{max}=40.63$   
 Tensioni:  $\sigma_N=-102.51$   $\sigma_M=-34.13$   $\tau=34.38$   $\sigma_{ID,max}=149.06$

Asta n. 4999 (-11933 -11855) Tubo 80x80x4 mm - S235 Crit. 2



- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -2631.84$   $M_y, Ed = 25.17$   $M_z, Ed = 3.67$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.10 + 0.03 + 0.01 = 0.13$   
 Verifica ZZ:  $0.10 + 0.02 + 0.01 = 0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 6571.58$   $T_z = 2.30$   $M_y = 11.31$   $T_y = 42.75$   $M_z = 5.08$   $M_x = -25.62$   
 Tensioni:  $\sigma_N = 540.43$   $\sigma_M = 55.84$   $\tau = 55.45$   $\sigma_{max} = 596.27$   
 Tensioni:  $\sigma_N = 540.43$   $\sigma_M = 34.67$   $\tau = 63.35$   $\tau_{max} = 63.35$   
 Tensioni:  $\sigma_N = 540.43$   $\sigma_M = 55.84$   $\tau = 55.45$   $\sigma_{ID, max} = 603.95$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = 6571.61$   $T_z = 3.56$   $M_y = 11.59$   $T_y = 42.75$   $M_x = -25.62$   
 $V, Ed = 42.75$   $V_c, Rd, Red = 7519.44$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 3.56$   $V_c, Rd, Red = 7519.44$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -1214.42$   $T_z = -34.64$   $M_y = 13.55$   $T_y = 33.63$   $M_z = 2.77$   $M_x = -17.44$   
 Tensioni:  $\sigma_N = -99.87$   $\sigma_M = -55.61$   $\tau = 37.75$   $\sigma_{max} = -155.48$   
 Tensioni:  $\sigma_N = -99.87$   $\sigma_M = 8.49$   $\tau = 44.15$   $\tau_{max} = 44.15$   
 Tensioni:  $\sigma_N = -99.87$   $\sigma_M = -55.61$   $\tau = 37.75$   $\sigma_{ID, max} = 168.66$

Asta n. 4999 (-11855 -11793) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -2529.69$   $M_y, Ed = 26.54$   $M_z, Ed = 10.85$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.09 + 0.03 + 0.02 = 0.14$   
 Verifica ZZ:  $0.09 + 0.03 + 0.02 = 0.13$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = 6677.61$   $T_z = 1.34$   $M_y = 11.22$   $T_y = 135.94$   $M_z = 16.20$   $M_x = -25.80$   
 Tensioni:  $\sigma_N = 549.14$   $\sigma_M = 93.44$   $\tau = 55.84$   $\sigma_{max} = 642.58$   
 Tensioni:  $\sigma_N = 549.14$   $\sigma_M = 38.24$   $\tau = 80.95$   $\tau_{max} = 80.95$   
 Tensioni:  $\sigma_N = 549.14$   $\sigma_M = 93.44$   $\tau = 55.84$   $\sigma_{ID, max} = 649.82$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU  $X_l = 0.00$   
 Sollecitazioni:  $N = -1407.39$   $T_z = 20.10$   $M_y = 9.47$   $T_y = 67.36$   $M_x = -15.88$   
 $V, Ed = 67.36$   $V_c, Rd, Red = 7647.66$   $V, Ed/V_c, Rd, Red = 0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V, Ed = 20.10$   $V_c, Rd, Red = 7647.66$   $V, Ed/V_c, Rd, Red = 0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l = 0.10$  - Classe 3  
 Sollecitazioni:  $N = -1180.88$   $T_z = 33.36$   $M_y = 17.78$   $T_y = 101.01$   $M_z = 11.00$   $M_x = -17.43$   
 Tensioni:  $\sigma_N = -97.11$   $\sigma_M = -98.07$   $\tau = 37.73$   $\sigma_{max} = -195.19$   
 Tensioni:  $\sigma_N = -97.11$   $\sigma_M = 54.54$   $\tau = 56.39$   $\tau_{max} = 56.39$   
 Tensioni:  $\sigma_N = -97.11$   $\sigma_M = -98.07$   $\tau = 37.73$   $\sigma_{ID, max} = 205.83$

Asta n. 4999 (-11793 -11727) Tubo 80x80x4 mm - S235 Crit. 2  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N, Ed = -2009.49$   $M_y, Ed = -137.12$   $M_z, Ed = -7.83$   
 Resistenze:  $N_c, Rd = 27215.20$   $M_y, c, Rd = 656.79$   $M_z, c, Rd = 656.79$   $L = 9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$   
 $\lambda_y = 3.15$   $N_{cr, y} = 25463400.00$   $\lambda'_y = 0.03$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$   
 $\lambda_z = 3.15$   $N_{cr, z} = 25463400.00$   $\lambda'_z = 0.03$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz} = 0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.07 + 0.17 + 0.01 = 0.25$

Verifica ZZ:  $0.07+0.13+0.01=0.22$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7021.18$   $T_z=-136.66$   $M_y=-78.06$   $T_y=126.49$   $M_z=-16.24$   $M_x=-7.59$   
 Tensioni:  $\sigma_N=577.40$   $\sigma_M=321.35$   $\tau=16.43$   $\sigma_{max}=898.75$   
 Tensioni:  $\sigma_N=577.40$   $\sigma_M=-49.81$   $\tau=41.71$   $\tau_{max}=41.71$   
 Tensioni:  $\sigma_N=577.40$   $\sigma_M=321.35$   $\tau=16.43$   $\sigma_{ID,max}=899.20$
- Verifica a taglio dir. Y [4.2.16] - CC 103 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-664.85$   $T_z=-99.27$   $M_y=-45.33$   $T_y=-12.51$   
 $V,Ed=-12.51$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.00$
- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-99.27$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.01$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-979.00$   $T_z=-106.49$   $M_y=-55.08$   $T_y=82.84$   $M_z=-12.08$   $M_x=-9.74$   
 Tensioni:  $\sigma_N=-80.51$   $\sigma_M=-228.84$   $\tau=21.08$   $\sigma_{max}=-309.36$   
 Tensioni:  $\sigma_N=-80.51$   $\sigma_M=-37.05$   $\tau=40.76$   $\tau_{max}=40.76$   
 Tensioni:  $\sigma_N=-80.51$   $\sigma_M=-228.84$   $\tau=21.08$   $\sigma_{ID,max}=311.50$

Asta n. 4999 (-11727 -11656) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1850.19$   $M_y,Ed=-99.84$   $M_z,Ed=-6.24$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25463400.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25463400.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.07+0.12+0.01=0.20$   
 Verifica ZZ:  $0.07+0.10+0.01=0.17$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7039.91$   $T_z=-152.95$   $M_y=-57.02$   $T_y=65.70$   $M_z=-6.90$   $M_x=-10.76$   
 Tensioni:  $\sigma_N=578.94$   $\sigma_M=217.80$   $\tau=23.29$   $\sigma_{max}=796.74$   
 Tensioni:  $\sigma_N=578.94$   $\sigma_M=-21.15$   $\tau=51.54$   $\tau_{max}=51.54$   
 Tensioni:  $\sigma_N=578.94$   $\sigma_M=217.80$   $\tau=23.29$   $\sigma_{ID,max}=797.76$
- Verifica a taglio dir. Y [4.2.16] - CC 54 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1727.22$   $T_z=-224.10$   $M_y=-76.19$   $T_y=41.96$   
 $V,Ed=41.96$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.01$
- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-224.10$   $Vc,Rd=7856.59$   $V,Ed/Vc,Rd=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-912.45$   $T_z=-102.70$   $M_y=-39.33$   $T_y=41.68$   $M_z=-5.73$   $M_x=-11.53$   
 Tensioni:  $\sigma_N=-75.04$   $\sigma_M=-153.56$   $\tau=24.95$   $\sigma_{max}=-228.60$   
 Tensioni:  $\sigma_N=-75.04$   $\sigma_M=-17.58$   $\tau=43.92$   $\tau_{max}=43.92$   
 Tensioni:  $\sigma_N=-75.04$   $\sigma_M=-151.61$   $\tau=30.35$   $\sigma_{ID,max}=232.66$

Asta n. 4999 (-11656 -11589) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1717.37$   $M_y,Ed=-66.39$   $M_z,Ed=-2.49$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr, $y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr, $z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.08+0.00=0.15$   
 Verifica ZZ:  $0.06+0.07+0.00=0.13$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7100.29$   $T_z=-94.75$   $M_y=-35.64$   $T_y=28.01$   $M_z=-2.09$   $M_x=-15.63$   
 Tensioni:  $\sigma_N=583.91$   $\sigma_M=128.59$   $\tau=33.83$   $\sigma_{max}=712.49$   
 Tensioni:  $\sigma_N=583.91$   $\sigma_M=-6.42$   $\tau=51.33$   $\tau_{max}=51.33$   
 Tensioni:  $\sigma_N=583.91$   $\sigma_M=128.59$   $\tau=33.83$   $\sigma_{ID,max}=714.90$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1717.37$   $T_z=-169.54$   $M_y=-49.88$   $T_y=23.44$   $M_x=-15.20$   
 $V,Ed=23.44$   $Vc,Rd,Red=7656.60$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-169.54$   $Vc,Rd,Red=7656.60$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-847.82$   $T_z=-72.58$   $M_y=-25.67$   $T_y=17.89$   $M_z=-2.65$   $M_x=-13.81$   
 Tensioni:  $\sigma_N=-69.72$   $\sigma_M=-96.50$   $\tau=29.89$   $\sigma_{max}=-166.22$   
 Tensioni:  $\sigma_N=-69.72$   $\sigma_M=-8.14$   $\tau=43.30$   $\tau_{max}=43.30$   
 Tensioni:  $\sigma_N=-69.72$   $\sigma_M=-95.60$   $\tau=32.21$   $\sigma_{ID,max}=174.48$

Asta n. 4999 (-11589 -11519) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1637.46$   $M_y,Ed=-41.88$   $M_z,Ed=-0.95$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.05+0.00=0.11$   
 Verifica ZZ:  $0.06+0.04+0.00=0.10$

- Verifica in termini tensionali [4.2.4] - CC 74 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-1322.07$   $T_z=-114.29$   $M_y=-32.40$   $T_y=9.50$   $M_z=-1.05$   $M_x=-18.40$   
 Tensioni:  $\sigma_N=-108.72$   $\sigma_M=-113.98$   $\tau=39.81$   $\sigma_{max}=-222.71$   
 Tensioni:  $\sigma_N=-108.72$   $\sigma_M=-3.21$   $\tau=60.92$   $\tau_{max}=60.92$   
 Tensioni:  $\sigma_N=-108.72$   $\sigma_M=-113.63$   $\tau=41.04$   $\sigma_{ID,max}=233.44$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1637.46$   $T_z=-149.18$   $M_y=-27.36$   $T_y=10.63$   $M_x=-22.88$   
 $V,Ed=10.63$   $Vc,Rd,Red=7555.50$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-149.18$   $Vc,Rd,Red=7555.50$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-797.66$   $T_z=-61.70$   $M_y=-16.29$   $T_y=9.21$   $M_z=-1.58$   $M_x=-16.25$   
 Tensioni:  $\sigma_N=-65.60$   $\sigma_M=-60.90$   $\tau=35.17$   $\sigma_{max}=-126.50$   
 Tensioni:  $\sigma_N=-65.60$   $\sigma_M=-4.85$   $\tau=46.57$   $\tau_{max}=46.57$   
 Tensioni:  $\sigma_N=-65.60$   $\sigma_M=-55.35$   $\tau=43.16$   $\sigma_{ID,max}=142.19$

Asta n. 4999 (-11519 -11449) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-1567.95$   $M_y,Ed=-20.82$   $M_z,Ed=-0.49$   
 Resistenze:  $Nc,Rd=27215.20$   $My,c,Rd=656.79$   $Mz,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.06+0.03+0.00=0.08$   
 Verifica ZZ:  $0.06+0.02+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=7197.64$   $T_z=-61.10$   $M_y=-2.66$   $T_y=10.33$   $M_z=1.01$   $M_x=-26.61$   
 Tensioni:  $\sigma_N=591.91$   $\sigma_M=12.51$   $\tau=57.60$   $\sigma_{max}=604.42$   
 Tensioni:  $\sigma_N=591.91$   $\sigma_M=3.10$   $\tau=68.88$   $\tau_{max}=68.88$   
 Tensioni:  $\sigma_N=591.91$   $\sigma_M=11.60$   $\tau=65.51$   $\sigma_{ID,max}=614.09$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1567.95$   $T_z=-114.47$   $M_y=-9.69$   $T_y=8.33$   $M_x=-30.95$   
 $V,Ed=8.33$   $Vc,Rd,Red=7449.39$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-114.47$   $Vc,Rd,Red=7449.39$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3

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Sollecitazioni:  $N=-750.59$   $T_z=-45.67$   $M_y=-8.86$   $T_y=7.09$   $M_z=-1.19$   $M_x=-18.86$

Tensioni:  $\sigma_N=-61.73$   $\sigma_M=-34.26$   $\tau=40.81$   $\sigma_{max}=-95.98$

Tensioni:  $\sigma_N=-61.73$   $\sigma_M=-3.66$   $\tau=49.25$   $\tau_{max}=49.25$

Tensioni:  $\sigma_N=-61.73$   $\sigma_M=-31.24$   $\tau=46.72$   $\sigma_{ID,max}=123.25$

Asta n. 4999 (-11449 -11379) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-1499.03$   $M_y,Ed=6.87$   $M_z,Ed=0.68$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.06+0.01+0.00=0.06$

Verifica ZZ:  $0.06+0.01+0.00=0.06$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=7242.91$   $T_z=-64.85$   $M_y=6.79$   $T_y=11.53$   $M_z=1.28$   $M_x=-31.78$

Tensioni:  $\sigma_N=595.63$   $\sigma_M=27.50$   $\tau=68.78$   $\sigma_{max}=623.13$

Tensioni:  $\sigma_N=595.63$   $\sigma_M=3.93$   $\tau=80.76$   $\tau_{max}=80.76$

Tensioni:  $\sigma_N=595.63$   $\sigma_M=25.19$   $\tau=77.18$   $\sigma_{ID,max}=635.05$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.10$

Sollecitazioni:  $N=-1410.47$   $T_z=-113.32$   $M_y=5.59$   $T_y=7.74$   $M_x=-29.13$

$V,Ed=7.74$   $V_c,Rd,Red=7473.31$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-113.32$   $V_c,Rd,Red=7473.31$   $V,Ed/V_c,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-704.14$   $T_z=-44.75$   $M_y=5.61$   $T_y=7.49$   $M_x=-21.20$

Tensioni:  $\sigma_N=-57.91$   $\sigma_M=-19.12$   $\tau=45.88$   $\sigma_{max}=-77.03$

Tensioni:  $\sigma_N=-57.91$   $\sigma_M=-0.00$   $\tau=54.15$   $\tau_{max}=54.15$

Tensioni:  $\sigma_N=-57.91$   $\sigma_M=-17.21$   $\tau=51.68$   $\sigma_{ID,max}=116.85$

Asta n. 4999 (-11379 -11313) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni:  $N,Ed=-1423.22$   $M_y,Ed=22.21$   $M_z,Ed=1.38$

Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$

$\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$

Verifica YY:  $0.05+0.03+0.00=0.08$

Verifica ZZ:  $0.05+0.02+0.00=0.08$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=7289.13$   $T_z=-46.29$   $M_y=14.14$   $T_y=17.76$   $M_z=2.07$   $M_x=-36.51$

Tensioni:  $\sigma_N=599.43$   $\sigma_M=55.23$   $\tau=79.01$   $\sigma_{max}=654.66$

Tensioni:  $\sigma_N=599.43$   $\sigma_M=6.35$   $\tau=87.56$   $\tau_{max}=87.56$

Tensioni:  $\sigma_N=599.43$   $\sigma_M=54.52$   $\tau=81.31$   $\sigma_{ID,max}=668.95$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $X1=0.04$

Sollecitazioni:  $N=-1343.69$   $T_z=-105.19$   $M_y=15.04$   $T_y=11.39$   $M_x=-35.02$

$V,Ed=11.39$   $V_c,Rd,Red=7395.82$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=-105.19$   $V_c,Rd,Red=7395.82$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X1=0.10$  - Classe 3

Sollecitazioni:  $N=-656.91$   $T_z=-43.10$   $M_y=10.25$   $T_y=10.02$   $M_x=-23.25$

Tensioni:  $\sigma_N=-54.02$   $\sigma_M=-34.94$   $\tau=50.31$   $\sigma_{max}=-88.97$

Tensioni:  $\sigma_N=-54.02$   $\sigma_M=-0.00$   $\tau=58.27$   $\tau_{max}=58.27$

Tensioni:  $\sigma_N=-54.02$   $\sigma_M=-31.45$   $\tau=55.89$   $\sigma_{ID,max}=129.13$

Asta n. 4999 (-11313 -11241) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-1333.83 My,Ed=39.05 Mz,Ed=2.14  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.05+0.00=0.10  
 Verifica ZZ: 0.05+0.04+0.00=0.09

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=7342.00 Tz=-59.54 My=22.75 Ty=28.42 Mz=3.50 Mx=-39.72  
 Tensioni:  $\sigma_N=603.78$   $\sigma_M=89.44$   $\tau=85.96$   $\sigma_{max}=693.22$   
 Tensioni:  $\sigma_N=603.78$   $\sigma_M=10.73$   $\tau=96.95$   $\tau_{max}=96.95$   
 Tensioni:  $\sigma_N=603.78$   $\sigma_M=88.25$   $\tau=89.64$   $\sigma_{ID,max}=709.23$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.02  
 Sollecitazioni: N=-1333.81 Tz=-112.45 My=30.02 Ty=15.39 Mz=-48.13  
 V,Ed=15.39 Vc,Rd,Red=7223.28 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-112.45 Vc,Rd,Red=7223.28 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-608.01 Tz=-48.86 My=16.31 Ty=-6.01 Mz=-24.66  
 Tensioni:  $\sigma_N=-50.00$   $\sigma_M=-55.58$   $\tau=53.37$   $\sigma_{max}=-105.58$   
 Tensioni:  $\sigma_N=-50.00$   $\sigma_M=-0.00$   $\tau=62.40$   $\tau_{max}=62.40$   
 Tensioni:  $\sigma_N=-50.00$   $\sigma_M=-50.03$   $\tau=59.70$   $\sigma_{ID,max}=143.87$

Asta n. 4999 (-11241 -11175) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1234.14 My,Ed=55.58 Mz,Ed=1.57  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.07+0.00=0.12  
 Verifica ZZ: 0.05+0.05+0.00=0.10
- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=7403.89 Tz=-37.88 My=29.16 Ty=61.91 Mz=7.74 Mx=-41.90  
 Tensioni:  $\sigma_N=608.87$   $\sigma_M=125.75$   $\tau=90.68$   $\sigma_{max}=734.62$   
 Tensioni:  $\sigma_N=608.87$   $\sigma_M=89.43$   $\tau=102.12$   $\tau_{max}=102.12$   
 Tensioni:  $\sigma_N=608.87$   $\sigma_M=123.11$   $\tau=98.70$   $\sigma_{ID,max}=751.68$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.10  
 Sollecitazioni: N=-1047.01 Tz=-81.95 My=45.19 Ty=-4.86 Mz=-47.54  
 V,Ed=-4.86 Vc,Rd,Red=7231.01 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-81.95 Vc,Rd,Red=7231.01 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-563.57 Tz=-48.62 My=23.22 Ty=-27.69 Mz=2.57 Mx=-25.54  
 Tensioni:  $\sigma_N=-46.35$   $\sigma_M=-87.88$   $\tau=55.26$   $\sigma_{max}=-134.23$   
 Tensioni:  $\sigma_N=-46.35$   $\sigma_M=7.89$   $\tau=64.25$   $\tau_{max}=64.25$   
 Tensioni:  $\sigma_N=-46.35$   $\sigma_M=-87.01$   $\tau=58.85$   $\sigma_{ID,max}=167.85$

Asta n. 4999 (-11175 -11109) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1059.18 My,Ed=76.01 Mz,Ed=-0.40  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.09+0.00=0.13  
 Verifica ZZ: 0.04+0.07+0.00=0.11

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=7498.57$   $T_z=-59.40$   $M_y=37.53$   $T_y=137.01$   $M_z=17.89$   $M_x=-43.07$   
 Tensioni:  $\sigma_N=616.66$   $\sigma_M=188.83$   $\tau=93.21$   $\sigma_{max}=805.49$   
 Tensioni:  $\sigma_N=616.66$   $\sigma_M=115.09$   $\tau=118.52$   $\tau_{max}=118.52$   
 Tensioni:  $\sigma_N=616.66$   $\sigma_M=182.73$   $\tau=110.96$   $\sigma_{ID,max}=822.17$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-1059.18$   $T_z=-126.87$   $M_y=76.01$   $T_y=5.17$   $M_x=-41.77$   
 $V,Ed=5.17$   $Vc,Rd,Red=7306.96$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-126.87$   $Vc,Rd,Red=7306.96$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.10$  - Classe 3  
 Sollecitazioni:  $N=-530.81$   $T_z=-53.48$   $M_y=30.79$   $T_y=-75.06$   $M_z=8.49$   $M_x=-25.90$   
 Tensioni:  $\sigma_N=-43.65$   $\sigma_M=-133.84$   $\tau=56.06$   $\sigma_{max}=-177.49$   
 Tensioni:  $\sigma_N=-43.65$   $\sigma_M=-94.42$   $\tau=69.93$   $\tau_{max}=69.93$   
 Tensioni:  $\sigma_N=-43.65$   $\sigma_M=-130.95$   $\tau=65.78$   $\sigma_{ID,max}=208.49$

Asta n. 4999 (-11109 -11054) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-479.09$   $M_y,Ed=-109.88$   $M_z,Ed=-1.53$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.02+0.13+0.00=0.15$   
 Verifica ZZ:  $0.02+0.11+0.00=0.13$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7909.01$   $T_z=-52.06$   $M_y=-35.16$   $T_y=234.38$   $M_z=-25.93$   $M_x=-28.31$   
 Tensioni:  $\sigma_N=650.41$   $\sigma_M=208.19$   $\tau=61.27$   $\sigma_{max}=858.60$   
 Tensioni:  $\sigma_N=650.41$   $\sigma_M=-107.84$   $\tau=104.56$   $\tau_{max}=104.56$   
 Tensioni:  $\sigma_N=650.41$   $\sigma_M=208.19$   $\tau=61.27$   $\sigma_{ID,max}=865.14$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$   
 Sollecitazioni:  $N=-436.99$   $T_z=-190.67$   $M_y=-90.38$   $T_y=-8.96$   $M_x=-29.52$   
 $V,Ed=-8.96$   $Vc,Rd,Red=7468.19$   $V,Ed/Vc,Rd,Red=0.00$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-190.67$   $Vc,Rd,Red=7468.19$   $V,Ed/Vc,Rd,Red=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=-294.60$   $T_z=-81.68$   $M_y=-44.47$   $T_y=56.64$   $M_z=7.81$   $M_x=-24.55$   
 Tensioni:  $\sigma_N=-24.23$   $\sigma_M=-178.15$   $\tau=53.12$   $\sigma_{max}=-202.37$   
 Tensioni:  $\sigma_N=-24.23$   $\sigma_M=23.96$   $\tau=68.21$   $\tau_{max}=68.21$   
 Tensioni:  $\sigma_N=-24.23$   $\sigma_M=-175.48$   $\tau=60.46$   $\sigma_{ID,max}=225.50$

Asta n. 4999 (-11054 -10966) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-329.32$   $M_y,Ed=-81.99$   $M_z,Ed=-4.08$   
 Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.01+0.10+0.01=0.12$   
 Verifica ZZ:  $0.01+0.08+0.01=0.10$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
 Sollecitazioni:  $N=7918.95$   $T_z=-58.18$   $M_y=-27.10$   $T_y=88.06$   $M_z=-7.23$   $M_x=-30.93$   
 Tensioni:  $\sigma_N=651.23$   $\sigma_M=116.97$   $\tau=66.93$   $\sigma_{max}=768.20$   
 Tensioni:  $\sigma_N=651.23$   $\sigma_M=-83.11$   $\tau=83.20$   $\tau_{max}=83.20$   
 Tensioni:  $\sigma_N=651.23$   $\sigma_M=116.97$   $\tau=66.93$   $\sigma_{ID,max}=776.90$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU  $Xl=0.10$

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Sollecitazioni:  $N=-290.19$   $T_z=-149.46$   $M_y=-66.38$   $T_y=28.97$   $M_x=-33.51$   
 $V,Ed=28.97$   $Vc,Rd,Red=7415.71$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-149.46$   $Vc,Rd,Red=7415.71$   $V,Ed/Vc,Rd,Red=0.02$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-245.45$   $T_z=-66.22$   $M_y=-32.39$   $T_y=31.17$   $M_z=-4.06$   $M_x=-25.83$   
Tensioni:  $\sigma_N=-20.19$   $\sigma_M=-124.20$   $\tau=55.90$   $\sigma_{max}=-144.39$   
Tensioni:  $\sigma_N=-20.19$   $\sigma_M=-12.46$   $\tau=68.13$   $\tau_{max}=68.13$   
Tensioni:  $\sigma_N=-20.19$   $\sigma_M=-122.82$   $\tau=59.94$   $\sigma_{ID,max}=176.72$

Asta n. 4999 (-10966 -10890) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-221.95$   $M_y,Ed=-60.61$   $M_z,Ed=-1.62$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25463900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25463900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.07+0.00=0.08$   
Verifica ZZ:  $0.01+0.06+0.00=0.07$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=7967.96$   $T_z=-31.89$   $M_y=-19.19$   $T_y=38.75$   $M_z=-1.27$   $M_x=-34.73$   
Tensioni:  $\sigma_N=655.26$   $\sigma_M=69.70$   $\tau=75.16$   $\sigma_{max}=724.96$   
Tensioni:  $\sigma_N=655.26$   $\sigma_M=-58.85$   $\tau=82.32$   $\tau_{max}=82.32$   
Tensioni:  $\sigma_N=655.26$   $\sigma_M=69.70$   $\tau=75.16$   $\sigma_{ID,max}=736.55$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-221.95$   $T_z=-130.27$   $M_y=-47.94$   $T_y=19.70$   $M_x=-41.05$   
 $V,Ed=19.70$   $Vc,Rd,Red=7316.49$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-130.27$   $Vc,Rd,Red=7316.49$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-201.61$   $T_z=-57.01$   $M_y=-22.96$   $T_y=14.50$   $M_z=-1.88$   $M_x=-27.51$   
Tensioni:  $\sigma_N=-16.58$   $\sigma_M=-84.66$   $\tau=59.53$   $\sigma_{max}=-101.24$   
Tensioni:  $\sigma_N=-16.58$   $\sigma_M=-5.78$   $\tau=70.06$   $\tau_{max}=70.06$   
Tensioni:  $\sigma_N=-16.58$   $\sigma_M=-76.84$   $\tau=66.91$   $\sigma_{ID,max}=148.86$

Asta n. 4999 (-10890 -10825) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-183.19$   $M_y,Ed=-42.07$   $M_z,Ed=0.62$   
Resistenze:  $Nc,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $Ncr,y=25462900.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $Ncr,z=25462900.00$   $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.05+0.00=0.06$   
Verifica ZZ:  $0.01+0.04+0.00=0.05$

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $Xl=0.01$  - Classe 3  
Sollecitazioni:  $N=8014.91$   $T_z=-35.16$   $M_y=-14.14$   $T_y=23.58$   $M_z=1.13$   $M_x=-39.48$   
Tensioni:  $\sigma_N=659.12$   $\sigma_M=52.04$   $\tau=85.44$   $\sigma_{max}=711.16$   
Tensioni:  $\sigma_N=659.12$   $\sigma_M=3.48$   $\tau=91.93$   $\tau_{max}=91.93$   
Tensioni:  $\sigma_N=659.12$   $\sigma_M=52.04$   $\tau=85.44$   $\sigma_{ID,max}=726.40$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $Xl=0.10$   
Sollecitazioni:  $N=-183.19$   $T_z=-111.59$   $M_y=-31.23$   $T_y=9.54$   $M_x=-48.11$   
 $V,Ed=9.54$   $Vc,Rd,Red=7223.54$   $V,Ed/Vc,Rd,Red=0.00$

- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-111.59$   $Vc,Rd,Red=7223.54$   $V,Ed/Vc,Rd,Red=0.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=-171.65$   $T_z=-47.58$   $M_y=-15.32$   $T_y=7.67$   $M_z=-1.06$   $M_x=-29.56$

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Tensioni:  $\sigma_N=-14.12$   $\sigma_M=-55.81$   $\tau=63.97$   $\sigma_{max}=-69.92$   
 Tensioni:  $\sigma_N=-14.12$   $\sigma_M=-3.24$   $\tau=72.76$   $\tau_{max}=72.76$   
 Tensioni:  $\sigma_N=-14.12$   $\sigma_M=-50.59$   $\tau=70.13$   $\sigma_{ID,max}=137.63$

Asta n. 4999 (-10825 -10759) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-159.02 My,Ed=-25.73 Mz,Ed=0.96  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.03+0.00=0.04  
 Verifica ZZ: 0.01+0.03+0.00=0.03

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
 Sollecitazioni: N=8059.82 Tz=-26.11 My=-7.08 Ty=26.28 Mz=4.40 Mx=-44.80  
 Tensioni:  $\sigma_N=662.81$   $\sigma_M=39.12$   $\tau=96.95$   $\sigma_{max}=701.93$   
 Tensioni:  $\sigma_N=662.81$   $\sigma_M=-21.70$   $\tau=101.81$   $\tau_{max}=101.81$   
 Tensioni:  $\sigma_N=662.81$   $\sigma_M=39.12$   $\tau=96.95$   $\sigma_{ID,max}=721.74$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.10  
 Sollecitazioni: N=-159.02 Tz=-114.11 My=-14.63 Ty=8.85 Mx=-54.98  
 V,Ed=8.85 Vc,Rd,Red=7133.13 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-114.11 Vc,Rd,Red=7133.13 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=-142.99 Tz=-45.73 My=-9.29 Ty=5.65 Mx=-31.50  
 Tensioni:  $\sigma_N=-11.76$   $\sigma_M=-31.65$   $\tau=68.18$   $\sigma_{max}=-43.41$   
 Tensioni:  $\sigma_N=-11.76$   $\sigma_M=0.00$   $\tau=76.62$   $\tau_{max}=76.62$   
 Tensioni:  $\sigma_N=-11.76$   $\sigma_M=-28.48$   $\tau=74.10$   $\sigma_{ID,max}=134.51$

Asta n. 4999 (-10759 -10671) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-138.67 My,Ed=-8.54 Mz,Ed=1.59  
 Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.01+0.00=0.02  
 Verifica ZZ: 0.01+0.01+0.00=0.02

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.05 - Classe 3  
 Sollecitazioni: N=8089.65 Tz=-41.85 My=-3.42 Ty=37.42 Mz=4.84 Mx=-49.80  
 Tensioni:  $\sigma_N=665.27$   $\sigma_M=28.14$   $\tau=107.76$   $\sigma_{max}=693.41$   
 Tensioni:  $\sigma_N=665.27$   $\sigma_M=14.83$   $\tau=115.50$   $\tau_{max}=115.50$   
 Tensioni:  $\sigma_N=665.27$   $\sigma_M=26.98$   $\tau=113.18$   $\sigma_{ID,max}=719.47$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.07  
 Sollecitazioni: N=-138.66 Tz=-130.03 Ty=11.58 Mz=1.25 Mx=-61.28  
 V,Ed=11.58 Vc,Rd,Red=7050.24 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-130.03 Vc,Rd,Red=7050.24 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
 Sollecitazioni: N=-113.87 Tz=-49.72 My=5.04 Ty=2.45 Mx=-33.26  
 Tensioni:  $\sigma_N=-9.36$   $\sigma_M=-17.17$   $\tau=71.97$   $\sigma_{max}=-26.53$   
 Tensioni:  $\sigma_N=-9.36$   $\sigma_M=-0.00$   $\tau=81.15$   $\tau_{max}=81.15$   
 Tensioni:  $\sigma_N=-9.36$   $\sigma_M=-0.00$   $\tau=81.15$   $\sigma_{ID,max}=140.87$

Asta n. 4999 (-10671 -10576) Tubo 80x80x4 mm - S235 Crit. 2

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
 Sollecitazioni: N,Ed=-116.01 My,Ed=27.19 Mz,Ed=2.50



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Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.03+0.00=0.04

Verifica ZZ: 0.00+0.03+0.00=0.03

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=8078.06 Tz=-44.75 My=5.18 Ty=55.55 Mz=10.50 Mx=-53.88  
Tensioni:  $\sigma_N=664.31$   $\sigma_M=53.43$   $\tau=116.59$   $\sigma_{max}=717.75$   
Tensioni:  $\sigma_N=664.31$   $\sigma_M=15.89$   $\tau=126.86$   $\tau_{max}=126.86$   
Tensioni:  $\sigma_N=664.31$   $\sigma_M=51.67$   $\tau=122.39$   $\sigma_{ID,max}=746.70$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 74 SLU Xl=0.04  
Sollecitazioni: N=-99.46 Tz=-123.27 My=13.35 Ty=10.81 Mz=-53.14  
V,Ed=10.81 Vc,Rd,Red=7157.41 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-123.27 Vc,Rd,Red=7157.41 V,Ed/Vc,Rd,Red=0.02
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=14.67 Tz=-59.33 My=12.94 Ty=5.97 Mz=2.13 Mx=-34.37  
Tensioni:  $\sigma_N=1.21$   $\sigma_M=51.36$   $\tau=74.39$   $\sigma_{max}=52.57$   
Tensioni:  $\sigma_N=1.21$   $\sigma_M=6.54$   $\tau=85.35$   $\tau_{max}=85.35$   
Tensioni:  $\sigma_N=1.21$   $\sigma_M=46.95$   $\tau=82.07$   $\sigma_{ID,max}=150.09$

Asta n. 4999 (-10576 -10473) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-86.48 My,Ed=56.78 Mz,Ed=2.74

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25463900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25463900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.07+0.00=0.08

Verifica ZZ: 0.00+0.06+0.00=0.06

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.10 - Classe 3  
Sollecitazioni: N=7970.59 Tz=-80.09 My=16.24 Ty=69.45 Mz=15.44 Mx=-56.38  
Tensioni:  $\sigma_N=655.48$   $\sigma_M=107.95$   $\tau=122.02$   $\sigma_{max}=763.43$   
Tensioni:  $\sigma_N=655.48$   $\sigma_M=47.36$   $\tau=136.81$   $\tau_{max}=136.81$   
Tensioni:  $\sigma_N=655.48$   $\sigma_M=107.95$   $\tau=122.02$   $\sigma_{ID,max}=792.14$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 111 SLU Xl=0.09  
Sollecitazioni: N=-56.07 Tz=-96.83 My=30.27 Ty=3.57 Mz=-36.35  
V,Ed=3.57 Vc,Rd,Red=7378.29 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
V,Ed=-96.83 Vc,Rd,Red=7378.29 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.10 - Classe 3  
Sollecitazioni: N=3.24 Tz=-76.19 My=22.89 Ty=4.69 Mz=2.58 Mx=-35.00  
Tensioni:  $\sigma_N=0.27$   $\sigma_M=86.79$   $\tau=75.75$   $\sigma_{max}=87.06$   
Tensioni:  $\sigma_N=0.27$   $\sigma_M=7.90$   $\tau=89.82$   $\tau_{max}=89.82$   
Tensioni:  $\sigma_N=0.27$   $\sigma_M=78.99$   $\tau=85.62$   $\sigma_{ID,max}=168.15$

Asta n. 4999 (-10473 -10404) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3

Sollecitazioni: N,Ed=-55.16 My,Ed=92.32 Mz,Ed=-2.77

Resistenze: Nc,Rd=27215.20 My,c,Rd=656.79 Mz,c,Rd=656.79 L=9.77

$\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}$ =0.95, 0.95, 0.95

$\lambda_y=3.15$  Ncr,y=25462900.00  $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.15$  Ncr,z=25462900.00  $\lambda'_z=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.00+0.11+0.00=0.12

Verifica ZZ: 0.00+0.09+0.00=0.10

- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=7632.32$   $T_z=-80.41$   $M_y=28.33$   $T_y=32.66$   $M_z=17.39$   $M_x=-56.42$   
 Tensioni:  $\sigma_N=627.66$   $\sigma_M=155.81$   $\tau=122.10$   $\sigma_{max}=783.47$   
 Tensioni:  $\sigma_N=627.66$   $\sigma_M=53.34$   $\tau=136.96$   $\tau_{max}=136.96$   
 Tensioni:  $\sigma_N=627.66$   $\sigma_M=155.81$   $\tau=122.10$   $\sigma_{ID,max}=811.51$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU  $X_l=0.06$   
 Sollecitazioni:  $N=-55.16$   $T_z=-238.29$   $M_y=83.85$   $T_y=-56.46$   $M_x=-67.33$   
 $V,Ed=-56.46$   $V_c,Rd,Red=6970.63$   $V,Ed/V_c,Rd,Red=0.01$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-238.29$   $V_c,Rd,Red=6970.63$   $V,Ed/V_c,Rd,Red=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-42.64$   $T_z=-88.81$   $M_y=35.53$   $T_y=-53.51$   $M_z=-1.96$   $M_x=-34.60$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=-127.75$   $\tau=74.88$   $\sigma_{max}=-131.25$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=-6.02$   $\tau=91.29$   $\tau_{max}=91.29$   
 Tensioni:  $\sigma_N=-3.51$   $\sigma_M=-114.97$   $\tau=87.97$   $\sigma_{ID,max}=193.02$

Asta n. 4999 (-10404 3504) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3  
 Sollecitazioni:  $N,Ed=-21.88$   $M_y,Ed=129.09$   $M_z,Ed=-31.76$   
 Resistenze:  $N_c,Rd=27215.20$   $M_y,c,Rd=656.79$   $M_z,c,Rd=656.79$   $L=9.77$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=3.15$   $N_{cr,y}=25463900.00$   $\lambda'_{y'}=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.15$   $N_{cr,z}=25463900.00$   $\lambda'_{z'}=0.03$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
 Verifica YY:  $0.00+0.16+0.05=0.20$   
 Verifica ZZ:  $0.00+0.13+0.05=0.17$
- Verifica in termini tensionali [4.2.4] - CC 45 SLU  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=6751.19$   $T_z=-113.90$   $M_y=44.64$   $T_y=-266.58$   $M_z=-10.62$   $M_x=-54.02$   
 Tensioni:  $\sigma_N=555.20$   $\sigma_M=188.32$   $\tau=116.90$   $\sigma_{max}=743.51$   
 Tensioni:  $\sigma_N=555.20$   $\sigma_M=-136.90$   $\tau=166.15$   $\tau_{max}=166.15$   
 Tensioni:  $\sigma_N=555.20$   $\sigma_M=188.32$   $\tau=116.90$   $\sigma_{ID,max}=770.59$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 49 SLU  $X_l=0.03$   
 Sollecitazioni:  $N=4027.05$   $T_z=-197.24$   $M_y=78.74$   $T_y=-307.13$   $M_x=-63.01$   
 $V,Ed=-307.13$   $V_c,Rd,Red=7027.48$   $V,Ed/V_c,Rd,Red=0.04$
- Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=-197.24$   $V_c,Rd,Red=7027.48$   $V,Ed/V_c,Rd,Red=0.03$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.10$  - Classe 3  
 Sollecitazioni:  $N=-37.86$   $T_z=-102.66$   $M_y=49.97$   $T_y=-292.05$   $M_z=-29.14$   $M_x=-33.63$   
 Tensioni:  $\sigma_N=-3.11$   $\sigma_M=-269.58$   $\tau=72.79$   $\sigma_{max}=-272.70$   
 Tensioni:  $\sigma_N=-3.11$   $\sigma_M=-153.26$   $\tau=126.73$   $\tau_{max}=126.73$   
 Tensioni:  $\sigma_N=-3.11$   $\sigma_M=-259.65$   $\tau=110.60$   $\sigma_{ID,max}=325.19$

Asta n. 5466 (-2490 -2600) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,c}=0.01$  (L/3306)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,c}=0.01$  (L/2846)
- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $X_l=0.18$  - Classe 3  
 Sollecitazioni:  $N=4077.63$   $T_z=457.09$   $M_y=-113.97$   $T_y=-361.30$   $M_z=78.38$   $M_x=-35.04$   
 Tensioni:  $\sigma_N=313.66$   $\sigma_M=733.93$   $\tau=84.94$   $\sigma_{max}=1047.59$   
 Tensioni:  $\sigma_N=313.66$   $\sigma_M=352.75$   $\tau=156.92$   $\tau_{max}=156.92$   
 Tensioni:  $\sigma_N=313.66$   $\sigma_M=733.93$   $\tau=84.94$   $\sigma_{ID,max}=1057.87$
- Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
 Sollecitazioni:  $N=2350.68$   $T_z=222.43$   $M_y=-19.00$   $T_y=-167.55$   $M_z=65.60$   $M_x=-25.25$   
 Tensioni:  $\sigma_N=180.82$   $\sigma_M=344.09$   $\tau=61.21$   $\sigma_{max}=524.91$   
 Tensioni:  $\sigma_N=180.82$   $\sigma_M=-230.73$   $\tau=95.44$   $\tau_{max}=95.44$   
 Tensioni:  $\sigma_N=180.82$   $\sigma_M=344.09$   $\tau=61.21$   $\sigma_{ID,max}=535.51$

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Asta n. 5466 (-2600 -2998) Tubo 60x100x5 mm - S355 Crit. 3

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- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3370)
  - Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/2931)
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=4077.64$   $T_z=457.00$   $M_y=-113.97$   $T_y=-361.30$   $M_z=78.38$   $M_x=-35.04$   
Tensioni:  $\sigma_N=271.84$   $\sigma_M=562.99$   $\tau=67.06$   $\sigma_{max}=834.84$   
Tensioni:  $\sigma_N=271.84$   $\sigma_M=261.33$   $\tau=137.86$   $\tau_{max}=137.86$   
Tensioni:  $\sigma_N=271.84$   $\sigma_M=562.99$   $\tau=67.06$   $\sigma_{ID,max}=842.88$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.19$  - Classe 3  
Sollecitazioni:  $N=2354.46$   $T_z=221.01$   $M_y=-90.28$   $T_y=-167.49$   $M_z=4.12$   $M_x=-25.25$   
Tensioni:  $\sigma_N=156.96$   $\sigma_M=244.33$   $\tau=48.32$   $\sigma_{max}=401.29$   
Tensioni:  $\sigma_N=156.96$   $\sigma_M=207.01$   $\tau=81.14$   $\tau_{max}=81.14$   
Tensioni:  $\sigma_N=156.96$   $\sigma_M=241.94$   $\tau=75.02$   $\sigma_{ID,max}=419.54$

Asta n. 5466 (-2998 -4785) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.24$  - Classe 3  
Sollecitazioni:  $N=4084.61$   $T_z=453.55$   $M_y=-307.74$   $T_y=-361.30$   $M_z=-75.36$   $M_x=-35.04$   
Tensioni:  $\sigma_N=214.98$   $\sigma_M=644.17$   $\tau=40.62$   $\sigma_{max}=859.15$   
Tensioni:  $\sigma_N=214.98$   $\sigma_M=450.64$   $\tau=93.03$   $\tau_{max}=93.03$   
Tensioni:  $\sigma_N=214.98$   $\sigma_M=644.17$   $\tau=40.62$   $\sigma_{ID,max}=862.03$
  - Verifica a taglio e torsione dir. Y [4.2.25] - CC 103 SLU  $Xl=0.02$   
Sollecitazioni:  $N=1945.16$   $T_z=226.01$   $M_y=-99.48$   $T_y=-158.59$   $M_x=-15.52$   
 $V,Ed=-158.59$   $V_c,Rd,Red=14698.90$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica a taglio e torsione dir. Z [4.2.25]  
 $V,Ed=226.01$   $V_c,Rd,Red=22048.30$   $V,Ed/V_c,Rd,Red=0.01$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.24$  - Classe 3  
Sollecitazioni:  $N=2357.82$   $T_z=220.00$   $M_y=-142.53$   $T_y=-167.38$   $M_z=-35.90$   $M_x=-25.25$   
Tensioni:  $\sigma_N=124.10$   $\sigma_M=300.38$   $\tau=29.27$   $\sigma_{max}=424.48$   
Tensioni:  $\sigma_N=124.10$   $\sigma_M=208.73$   $\tau=53.55$   $\tau_{max}=53.55$   
Tensioni:  $\sigma_N=124.10$   $\sigma_M=300.38$   $\tau=29.27$   $\sigma_{ID,max}=427.50$

Asta n. 5466 (-4785 -6208) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-648.80$   $M_y,Ed=-242.65$   $M_z,Ed=-65.78$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=2.40$   $N_{cr,y}=68272600.00$   $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=3.31$   $N_{cr,z}=35916200.00$   $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.01+0.09+0.04=0.14$   
Verifica ZZ:  $0.01+0.07+0.04=0.12$
  - Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=3661.45$   $T_z=-1121.05$   $M_y=-290.13$   $T_y=-235.29$   $M_z=-86.73$   $M_x=-32.54$   
Tensioni:  $\sigma_N=192.71$   $\sigma_M=639.07$   $\tau=37.73$   $\sigma_{max}=831.78$   
Tensioni:  $\sigma_N=192.71$   $\sigma_M=-153.64$   $\tau=151.55$   $\tau_{max}=151.55$   
Tensioni:  $\sigma_N=192.71$   $\sigma_M=639.07$   $\tau=37.73$   $\sigma_{ID,max}=834.34$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3  
Sollecitazioni:  $N=1995.99$   $T_z=-470.20$   $M_y=-132.99$   $T_y=-109.90$   $M_z=-40.95$   $M_x=-23.55$   
Tensioni:  $\sigma_N=105.05$   $\sigma_M=295.36$   $\tau=27.31$   $\sigma_{max}=400.42$   
Tensioni:  $\sigma_N=105.05$   $\sigma_M=-72.54$   $\tau=75.05$   $\tau_{max}=75.05$   
Tensioni:  $\sigma_N=105.05$   $\sigma_M=295.36$   $\tau=27.31$   $\sigma_{ID,max}=403.20$

Asta n. 5466 (-6208 -7724) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-2240.55$   $M_y,Ed=-100.40$   $M_z,Ed=-84.46$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=10.68$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.40$  Ncr,y=68272600.00  $\lambda^*_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=3.31$  Ncr,z=35916200.00  $\lambda^*_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.03+0.04+0.05=0.12

Verifica ZZ: 0.03+0.03+0.05=0.11

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=3149.96 T<sub>z</sub>=-492.32 M<sub>y</sub>=-167.56 T<sub>y</sub>=-252.46 M<sub>z</sub>=-118.12 M<sub>x</sub>=-31.43  
 Tensioni:  $\sigma_N=165.79$   $\sigma_M=506.81$   $\tau=36.44$   $\sigma_{max}=672.60$   
 Tensioni:  $\sigma_N=165.79$   $\sigma_M=-209.23$   $\tau=86.45$   $\tau_{max}=86.45$   
 Tensioni:  $\sigma_N=165.79$   $\sigma_M=506.81$   $\tau=36.44$   $\sigma_{ID,max}=675.56$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1652.30 T<sub>z</sub>=-210.50 M<sub>y</sub>=-82.87 T<sub>y</sub>=-117.86 M<sub>z</sub>=-55.59 M<sub>x</sub>=-23.16  
 Tensioni:  $\sigma_N=86.96$   $\sigma_M=244.93$   $\tau=26.85$   $\sigma_{max}=331.89$   
 Tensioni:  $\sigma_N=86.96$   $\sigma_M=-98.47$   $\tau=48.23$   $\tau_{max}=48.23$   
 Tensioni:  $\sigma_N=86.96$   $\sigma_M=244.93$   $\tau=26.85$   $\sigma_{ID,max}=335.14$

Asta n. 5466 (-7724 -8510) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1728.42 M<sub>y</sub>,Ed=-31.76 M<sub>z</sub>,Ed=-97.73  
 Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=5.34  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.20$  Ncr,y=273093000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.66$  Ncr,z=143666000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.03+0.01+0.06=0.09  
 Verifica ZZ: 0.03+0.01+0.06=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=3387.88 T<sub>z</sub>=-618.86 M<sub>y</sub>=-125.28 T<sub>y</sub>=-263.52 M<sub>z</sub>=-153.87 M<sub>x</sub>=-31.97  
 Tensioni:  $\sigma_N=178.31$   $\sigma_M=511.63$   $\tau=37.07$   $\sigma_{max}=689.94$   
 Tensioni:  $\sigma_N=178.31$   $\sigma_M=-272.56$   $\tau=99.92$   $\tau_{max}=99.92$   
 Tensioni:  $\sigma_N=178.31$   $\sigma_M=511.63$   $\tau=37.07$   $\sigma_{ID,max}=692.92$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 45 SLU Xl=0.05  
 Sollecitazioni: N=-1727.46 T<sub>z</sub>=-611.60 T<sub>y</sub>=-151.75 M<sub>z</sub>=-97.73 M<sub>x</sub>=-35.00  
 V,Ed=-151.75 Vc,Rd,Red=14527.10 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-611.60 Vc,Rd,Red=21790.70 V,Ed/Vc,Rd,Red=0.03

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=1683.83 T<sub>z</sub>=-293.90 M<sub>y</sub>=-63.46 T<sub>y</sub>=-123.10 M<sub>z</sub>=-72.26 M<sub>x</sub>=-23.23  
 Tensioni:  $\sigma_N=88.62$   $\sigma_M=247.67$   $\tau=26.93$   $\sigma_{max}=336.30$   
 Tensioni:  $\sigma_N=88.62$   $\sigma_M=-128.00$   $\tau=56.78$   $\tau_{max}=56.78$   
 Tensioni:  $\sigma_N=88.62$   $\sigma_M=247.67$   $\tau=26.93$   $\sigma_{ID,max}=339.51$

Asta n. 5466 (-8510 -9386) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-1708.03 M<sub>y</sub>,Ed=-5.72 M<sub>z</sub>,Ed=-108.08  
 Resistenze: Nc,Rd=64238.10 M<sub>y</sub>,c,Rd=2116.38 M<sub>z</sub>,c,Rd=1670.05 L=5.15  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=1.16$  Ncr,y=293463000.00  $\lambda^*_y=0.02$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=1.60$  Ncr,z=154382000.00  $\lambda^*_z=0.02$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.03+0.00+0.06=0.09  
 Verifica ZZ: 0.03+0.00+0.06=0.09

- Verifica in termini tensionali [4.2.4] - CC 54 SLU Xl=0.05 - Classe 3  
 Sollecitazioni: N=3446.90 T<sub>z</sub>=-279.55 M<sub>y</sub>=-79.78 T<sub>y</sub>=-280.12 M<sub>z</sub>=-183.56 M<sub>x</sub>=-33.61  
 Tensioni:  $\sigma_N=181.42$   $\sigma_M=499.07$   $\tau=38.96$   $\sigma_{max}=680.49$   
 Tensioni:  $\sigma_N=181.42$   $\sigma_M=116.84$   $\tau=79.57$   $\tau_{max}=79.57$   
 Tensioni:  $\sigma_N=181.42$   $\sigma_M=499.07$   $\tau=38.96$   $\sigma_{ID,max}=683.83$

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.05 - Classe 3

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Sollecitazioni:  $N=1688.47$   $T_z=-142.16$   $M_y=-41.83$   $T_y=-129.77$   $M_z=-86.01$   $M_x=-23.59$

Tensioni:  $\sigma_N=88.87$   $\sigma_M=240.93$   $\tau=27.35$   $\sigma_{max}=329.80$

Tensioni:  $\sigma_N=88.87$   $\sigma_M=61.25$   $\tau=46.17$   $\tau_{max}=46.17$

Tensioni:  $\sigma_N=88.87$   $\sigma_M=240.93$   $\tau=27.35$   $\sigma_{ID,max}=333.19$

Asta n. 5466 (-9386 -11760) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni:  $N,Ed=-2304.47$   $M_y,Ed=-42.64$   $M_z,Ed=-119.93$

Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=9.47$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=2.13$   $N_{cr,y}=86821300.00$   $\lambda'_y=0.03$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=2.94$   $N_{cr,z}=45674200.00$   $\lambda'_z=0.04$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.04+0.02+0.07=0.12$

Verifica ZZ:  $0.04+0.01+0.07=0.12$

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.00$  (L/4617)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.00$  (L/3971)

- Verifica in termini tensionali [4.2.4] - CC 54 SLU  $Xl=0.09$  - Classe 3

Sollecitazioni:  $N=3197.12$   $T_z=-138.35$   $M_y=-65.88$   $T_y=-175.93$   $M_z=-209.12$   $M_x=-27.29$

Tensioni:  $\sigma_N=168.27$   $\sigma_M=528.60$   $\tau=31.64$   $\sigma_{max}=696.87$

Tensioni:  $\sigma_N=168.27$   $\sigma_M=96.47$   $\tau=57.13$   $\tau_{max}=57.13$

Tensioni:  $\sigma_N=168.27$   $\sigma_M=528.60$   $\tau=31.64$   $\sigma_{ID,max}=699.02$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.09$  - Classe 3

Sollecitazioni:  $N=1539.06$   $T_z=-69.07$   $M_y=-36.76$   $T_y=-93.44$   $M_z=-98.49$   $M_x=-20.85$

Tensioni:  $\sigma_N=81.00$   $\sigma_M=258.12$   $\tau=24.17$   $\sigma_{max}=339.12$

Tensioni:  $\sigma_N=81.00$   $\sigma_M=53.83$   $\tau=37.71$   $\tau_{max}=37.71$

Tensioni:  $\sigma_N=81.00$   $\sigma_M=258.12$   $\tau=24.17$   $\sigma_{ID,max}=341.69$

Asta n. 5505 (-2429 -2517) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 54 SLU - Classe 3

Sollecitazioni:  $N,Ed=-300.92$   $M_y,Ed=8.29$   $M_z,Ed=41.91$

Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=31.65$

$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$

$\lambda_y=10.73$   $N_{cr,y}=2340400.00$   $\lambda'_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$

$\lambda_z=13.53$   $N_{cr,z}=1471160.00$   $\lambda'_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

$K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$

Verifica YY:  $0.01+0.01+0.05=0.06$

Verifica ZZ:  $0.01+0.01+0.05=0.06$

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z,g}=0.01$  (L/3606)

- Verifica Freccia massima carichi totali - CC 46

$f_{z,g}=0.01$  (L/3577)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $Xl=0.00$  - Classe 3

Sollecitazioni:  $N=765.01$   $T_z=50.47$   $M_y=25.68$   $T_y=-81.15$   $M_z=45.05$   $M_x=-11.97$

Tensioni:  $\sigma_N=58.85$   $\sigma_M=280.94$   $\tau=29.02$   $\sigma_{max}=339.79$

Tensioni:  $\sigma_N=58.85$   $\sigma_M=-79.48$   $\tau=45.15$   $\tau_{max}=45.15$

Tensioni:  $\sigma_N=58.85$   $\sigma_M=280.94$   $\tau=29.02$   $\sigma_{ID,max}=343.48$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU  $Xl=0.17$

Sollecitazioni:  $N=-298.79$   $T_z=42.99$   $T_y=-75.15$   $M_z=28.94$   $M_x=-2.96$

$V,Ed=-75.15$   $V_c,Rd,Red=10835.70$   $V,Ed/V_c,Rd,Red=0.01$

- Verifica a taglio e torsione dir. Z [4.2.25]

$V,Ed=42.99$   $V_c,Rd,Red=14447.60$   $V,Ed/V_c,Rd,Red=0.00$

- Verifica in termini tensionali [4.2.4] - CC 1 SND  $Xl=0.00$  - Classe 3

Sollecitazioni:  $N=-453.45$   $T_z=-21.95$   $M_y=10.25$   $T_y=-49.75$   $M_z=27.30$   $M_x=-12.16$

Tensioni:  $\sigma_N=-34.88$   $\sigma_M=-151.46$   $\tau=29.47$   $\sigma_{max}=-186.34$

Tensioni:  $\sigma_N=-34.88$   $\sigma_M=-31.73$   $\tau=39.35$   $\tau_{max}=39.35$

Tensioni:  $\sigma_N = -34.88$   $\sigma_M = -151.46$   $\tau = 29.47$   $\sigma_{ID, \max} = 193.21$

Asta n. 5505 (-2517 -3071) Tubo 60x100x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3

Sollecitazioni: N, Ed=-472.35 My, Ed=26.99 Mz, Ed=9.90

Resistenze: Nc, Rd=50714.30 My, c, Rd=1327.02 Mz, c, Rd=972.02 L=33.31

$\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$

$\lambda_y = 9.21$  Ncr, y=3665300.00  $\lambda^*_y = 0.12$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$

$\lambda_z = 13.89$  Ncr, z=1610870.00  $\lambda^*_z = 0.18$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.01+0.02+0.01=0.04

Verifica ZZ: 0.01+0.02+0.01=0.03

- Verifica Freccia massima per soli carichi accidentali - CC 46

$f_{z, g} = 0.01$  (L/3610)

- Verifica Freccia massima carichi totali - CC 46

$f_{z, g} = 0.01$  (L/3555)

- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=768.77 Tz=48.60 My=9.99 Ty=-81.28 Mz=19.37 Mx=-11.97

Tensioni:  $\sigma_N = 51.25$   $\sigma_M = 92.83$   $\tau = 22.91$   $\sigma_{\max} = 144.08$

Tensioni:  $\sigma_N = 51.25$   $\sigma_M = -22.91$   $\tau = 38.82$   $\tau_{\max} = 38.82$

Tensioni:  $\sigma_N = 51.25$   $\sigma_M = 92.83$   $\tau = 22.91$   $\sigma_{ID, \max} = 149.44$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.21

Sollecitazioni: N=771.68 Tz=47.16 Ty=-81.28 Mz=2.14 Mx=-11.97

V, Ed=-81.28 Vc, Rd, Red=10851.40 V, Ed/Vc, Rd, Red=0.01

- Verifica a taglio e torsione dir. Z [4.2.25]

V, Ed=47.16 Vc, Rd, Red=18085.70 V, Ed/Vc, Rd, Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.33 - Classe 3

Sollecitazioni: N=-468.83 Tz=-47.27 My=26.99 Ty=-42.51 Mz=-4.28 Mx=-8.47

Tensioni:  $\sigma_N = -31.26$   $\sigma_M = -83.66$   $\tau = 16.20$   $\sigma_{\max} = -114.92$

Tensioni:  $\sigma_N = -31.26$   $\sigma_M = -61.88$   $\tau = 24.53$   $\tau_{\max} = 24.53$

Tensioni:  $\sigma_N = -31.26$   $\sigma_M = -81.18$   $\tau = 22.98$   $\sigma_{ID, \max} = 119.27$

Asta n. 5505 (-3071 -5810) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3

Sollecitazioni: N, Ed=-469.03 My, Ed=40.80 Mz, Ed=-16.87

Resistenze: Nc, Rd=64238.10 My, c, Rd=2116.38 Mz, c, Rd=1670.05 L=29.72

$\alpha_{my}, \alpha_{mz}, \alpha_{LT} = 0.95, 0.95, 0.95$

$\lambda_y = 6.69$  Ncr, y=8811210.00  $\lambda^*_y = 0.09$  Curva a:  $\Phi_y = 0.00$   $\chi_y = 1.00$

$\lambda_z = 9.22$  Ncr, z=4635320.00  $\lambda^*_z = 0.12$  Curva a:  $\Phi_z = 0.00$   $\chi_z = 1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95

Verifica YY: 0.01+0.02+0.01=0.04

Verifica ZZ: 0.01+0.01+0.01=0.03

- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.30 - Classe 3

Sollecitazioni: N=778.43 Tz=43.64 My=-19.17 Ty=-82.06 Mz=-32.11 Mx=-11.97

Tensioni:  $\sigma_N = 40.97$   $\sigma_M = 95.62$   $\tau = 13.87$   $\sigma_{\max} = 136.59$

Tensioni:  $\sigma_N = 40.97$   $\sigma_M = 28.07$   $\tau = 25.76$   $\tau_{\max} = 25.76$

Tensioni:  $\sigma_N = 40.97$   $\sigma_M = 95.62$   $\tau = 13.87$   $\sigma_{ID, \max} = 138.69$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 25 SLU Xl=0.00

Sollecitazioni: N=-296.09 Tz=5.51 Ty=-70.44 Mz=-6.43 Mx=-3.11

V, Ed=-70.44 Vc, Rd, Red=14808.20 V, Ed/Vc, Rd, Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V, Ed=5.51 Vc, Rd, Red=22212.30 V, Ed/Vc, Rd, Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.30 - Classe 3

Sollecitazioni: N=-465.06 Tz=-49.25 My=40.80 Ty=-42.32 Mz=-16.87 Mx=-8.48

Tensioni:  $\sigma_N = -24.48$   $\sigma_M = -99.33$   $\tau = 9.83$   $\sigma_{\max} = -123.80$

Tensioni:  $\sigma_N = -24.48$   $\sigma_M = -59.74$   $\tau = 15.97$   $\tau_{\max} = 15.97$

Tensioni:  $\sigma_N = -24.48$   $\sigma_M = -99.33$   $\tau = 9.83$   $\sigma_{ID, \max} = 124.97$

Asta n. 5505 (-5810 -8968) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-2876.03 My,Ed=-80.32 Mz,Ed=-20.46  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979100.00  $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.03+0.01=0.09  
 Verifica ZZ: 0.04+0.02+0.01=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3

Sollecitazioni: N=-2876.03 Tz=-669.51 My=-80.32 Ty=-26.60 Mz=-14.78 Mx=4.11  
 Tensioni:  $\sigma_N=-151.37$   $\sigma_M=-158.23$   $\tau=4.77$   $\sigma_{max}=-309.60$   
 Tensioni:  $\sigma_N=-151.37$   $\sigma_M=26.18$   $\tau=72.73$   $\tau_{max}=72.73$   
 Tensioni:  $\sigma_N=-151.37$   $\sigma_M=-158.23$   $\tau=4.77$   $\sigma_{ID,max}=309.71$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 37 SLU Xl=0.19

Sollecitazioni: N=822.91 Tz=-107.48 Ty=-55.53 Mz=-45.88 Mx=-11.07  
 V,Ed=-55.53 Vc,Rd,Red=14738.10 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-107.48 Vc,Rd,Red=22107.10 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3

Sollecitazioni: N=419.99 Tz=-118.89 My=32.27 Ty=-28.25 Mz=-18.48 Mx=-7.86  
 Tensioni:  $\sigma_N=22.10$   $\sigma_M=88.97$   $\tau=9.11$   $\sigma_{max}=111.07$   
 Tensioni:  $\sigma_N=22.10$   $\sigma_M=-32.74$   $\tau=21.18$   $\tau_{max}=21.18$   
 Tensioni:  $\sigma_N=22.10$   $\sigma_M=88.97$   $\tau=9.11$   $\sigma_{ID,max}=112.19$

Asta n. 5505 (-8968 -15278) Tubo 80x120x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3

Sollecitazioni: N,Ed=-3420.13 My,Ed=37.90 Mz,Ed=-29.10  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=20.96  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.71$  Ncr,y=17718400.00  $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.50$  Ncr,z=9321150.00  $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.01+0.02=0.08  
 Verifica ZZ: 0.05+0.01+0.02=0.08

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.21 - Classe 3

Sollecitazioni: N=-3416.34 Tz=36.50 My=30.05 Ty=-37.81 Mz=-29.10 Mx=4.00  
 Tensioni:  $\sigma_N=-179.81$   $\sigma_M=-106.91$   $\tau=4.64$   $\sigma_{max}=-286.71$   
 Tensioni:  $\sigma_N=-179.81$   $\sigma_M=44.00$   $\tau=10.12$   $\tau_{max}=10.12$   
 Tensioni:  $\sigma_N=-179.81$   $\sigma_M=-106.91$   $\tau=4.64$   $\sigma_{ID,max}=286.82$

- Verifica a taglio e torsione dir. Y [4.2.25] - CC 54 SLU Xl=0.02

Sollecitazioni: N=1094.30 Tz=-129.57 Ty=-60.29 Mz=-47.27 Mx=-2.11  
 V,Ed=-60.29 Vc,Rd,Red=14817.00 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione dir. Z [4.2.25]

V,Ed=-129.57 Vc,Rd,Red=22225.50 V,Ed/Vc,Rd,Red=0.01

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.21 - Classe 3

Sollecitazioni: N=622.11 Tz=-60.13 My=18.06 Ty=-27.72 Mz=-37.05 Mx=-10.37  
 Tensioni:  $\sigma_N=32.74$   $\sigma_M=103.86$   $\tau=12.02$   $\sigma_{max}=136.60$   
 Tensioni:  $\sigma_N=32.74$   $\sigma_M=-65.62$   $\tau=18.13$   $\tau_{max}=18.13$   
 Tensioni:  $\sigma_N=32.74$   $\sigma_M=103.86$   $\tau=12.02$   $\sigma_{ID,max}=138.18$

Asta n. 5511 (-2421 -2511) Tubo 60x80x5 mm - S355 Crit. 3

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 - Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 1 SND - Classe 3

Sollecitazioni: N,Ed=-134.55 My,Ed=26.65 Mz,Ed=14.42  
 Resistenze: Nc,Rd=43952.40 My,c,Rd=955.82 Mz,c,Rd=801.10 L=32.54  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=11.03$  Ncr,y=2213650.00  $\lambda'_y=0.14$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=13.92$  Ncr,z=1391480.00  $\lambda'_z=0.18$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$

Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.03+0.02=0.05  
 Verifica ZZ: 0.00+0.02+0.02=0.04

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3591)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3499)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=775.31 T<sub>z</sub>=-56.81 M<sub>y</sub>=3.99 T<sub>y</sub>=-51.25 M<sub>z</sub>=26.79 M<sub>x</sub>=-18.38  
 Tensioni:  $\sigma_N=59.64$   $\sigma_M=127.18$   $\tau=44.55$   $\sigma_{max}=186.82$   
 Tensioni:  $\sigma_N=59.64$   $\sigma_M=-12.35$   $\tau=54.74$   $\tau_{max}=54.74$   
 Tensioni:  $\sigma_N=59.64$   $\sigma_M=125.41$   $\tau=50.20$   $\sigma_{ID,max}=204.46$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.33  
 Sollecitazioni: N=117.24 T<sub>z</sub>=-123.09 M<sub>y</sub>=31.61 T<sub>y</sub>=-11.46 M<sub>z</sub>=-2.89  
 V,Ed=-11.46 Vc,Rd,Red=10836.60 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-123.09 Vc,Rd,Red=14448.80 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=224.97 T<sub>z</sub>=-58.01 M<sub>y</sub>=-22.39 T<sub>y</sub>=-27.29 M<sub>z</sub>=14.42 M<sub>x</sub>=-10.23  
 Tensioni:  $\sigma_N=17.30$   $\sigma_M=140.04$   $\tau=24.79$   $\sigma_{max}=157.35$   
 Tensioni:  $\sigma_N=17.30$   $\sigma_M=50.70$   $\tau=33.71$   $\tau_{max}=33.71$   
 Tensioni:  $\sigma_N=17.30$   $\sigma_M=140.04$   $\tau=24.79$   $\sigma_{ID,max}=163.10$

Asta n. 5511 (-2511 -3095) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni: N,Ed=-268.93 My,Ed=48.35 Mz,Ed=3.87  
 Resistenze: Nc,Rd=50714.30 My,c,Rd=1327.02 Mz,c,Rd=972.02 L=34.52  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.54$  Ncr,y=3413010.00  $\lambda^*_y=0.12$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.40$  Ncr,z=1499990.00  $\lambda^*_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.01+0.03+0.00=0.04  
 Verifica ZZ: 0.01+0.03+0.00=0.04
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3610)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3505)
- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.35 - Classe 3  
 Sollecitazioni: N=122.17 T<sub>z</sub>=-125.52 M<sub>y</sub>=74.53 T<sub>y</sub>=-11.46 M<sub>z</sub>=-3.66 M<sub>x</sub>=-2.89  
 Tensioni:  $\sigma_N=8.14$   $\sigma_M=202.62$   $\tau=5.54$   $\sigma_{max}=210.76$   
 Tensioni:  $\sigma_N=8.14$   $\sigma_M=-10.62$   $\tau=21.13$   $\tau_{max}=21.13$   
 Tensioni:  $\sigma_N=8.14$   $\sigma_M=202.62$   $\tau=5.54$   $\sigma_{ID,max}=210.98$
- Verifica a taglio e torsione dir. Y [4.2.25] - CC 75 SLU Xl=0.09  
 Sollecitazioni: N=118.59 T<sub>z</sub>=-123.75 M<sub>y</sub>=43.23 T<sub>y</sub>=-11.46 M<sub>z</sub>=-2.89  
 V,Ed=-11.46 Vc,Rd,Red=10949.10 V,Ed/Vc,Rd,Red=0.00
- Verifica a taglio e torsione dir. Z [4.2.25]  
 V,Ed=-123.75 Vc,Rd,Red=18248.60 V,Ed/Vc,Rd,Red=0.01
- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.35 - Classe 3  
 Sollecitazioni: N=368.94 T<sub>z</sub>=-84.47 M<sub>y</sub>=48.35 T<sub>y</sub>=-20.71 M<sub>z</sub>=-3.32 M<sub>x</sub>=-8.51  
 Tensioni:  $\sigma_N=24.60$   $\sigma_M=134.73$   $\tau=16.28$   $\sigma_{max}=159.32$   
 Tensioni:  $\sigma_N=24.60$   $\sigma_M=-9.62$   $\tau=26.77$   $\tau_{max}=26.77$   
 Tensioni:  $\sigma_N=24.60$   $\sigma_M=134.73$   $\tau=16.28$   $\sigma_{ID,max}=161.80$

Asta n. 5511 (-3095 -6034) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 9 SND - Classe 3  
 Sollecitazioni: N,Ed=-265.22 My,Ed=74.22 Mz,Ed=-9.62  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=30.92



$\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=6.96$  Ncr,y=8139740.00  $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.59$  Ncr,z=4282080.00  $\lambda^*_z=0.13$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.00+0.03+0.01=0.04  
 Verifica ZZ: 0.00+0.03+0.01=0.04

- Verifica in termini tensionali [4.2.4] - CC 75 SLU Xl=0.31 - Classe 3  
 Sollecitazioni: N=127.74 Tz=-128.30 My=113.78 Ty=-11.30 Mz=-6.98 Mx=-2.98  
 Tensioni:  $\sigma_N=6.72$   $\sigma_M=195.90$   $\tau=3.46$   $\sigma_{max}=202.62$   
 Tensioni:  $\sigma_N=6.72$   $\sigma_M=-12.37$   $\tau=16.48$   $\tau_{max}=16.48$   
 Tensioni:  $\sigma_N=6.72$   $\sigma_M=195.90$   $\tau=3.46$   $\sigma_{ID,max}=202.71$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 115 SLU Xl=0.14  
 Sollecitazioni: N=276.50 Tz=-102.87 My=74.56 Mx=-1.42  
 V,Ed=-102.87 Vc,Rd,Red=22234.60 V,Ed/Vc,Rd,Red=0.00

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.31 - Classe 3  
 Sollecitazioni: N=373.00 Tz=-86.82 My=74.22 Ty=-20.51 Mz=-9.62 Mx=-8.54  
 Tensioni:  $\sigma_N=19.63$   $\sigma_M=138.03$   $\tau=9.90$   $\sigma_{max}=157.66$   
 Tensioni:  $\sigma_N=19.63$   $\sigma_M=-17.04$   $\tau=18.71$   $\tau_{max}=18.71$   
 Tensioni:  $\sigma_N=19.63$   $\sigma_M=138.03$   $\tau=9.90$   $\sigma_{ID,max}=158.59$

Asta n. 5511 (-6034 -9167) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-2872.39 My,Ed=87.27 Mz,Ed=-0.20  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979060.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.04+0.03+0.00=0.08  
 Verifica ZZ: 0.04+0.03+0.00=0.07

- Verifica in termini tensionali [4.2.4] - CC 49 SLU Xl=0.21 - Classe 3  
 Sollecitazioni: N=-1502.50 Tz=-220.68 My=77.82 Ty=-5.19 Mz=-5.89 Mx=-1.00  
 Tensioni:  $\sigma_N=-79.08$   $\sigma_M=-136.24$   $\tau=1.16$   $\sigma_{max}=-215.32$   
 Tensioni:  $\sigma_N=-79.08$   $\sigma_M=-10.44$   $\tau=23.56$   $\tau_{max}=23.56$   
 Tensioni:  $\sigma_N=-79.08$   $\sigma_M=-136.24$   $\tau=1.16$   $\sigma_{ID,max}=215.33$

- Verifica a taglio e torsione dir. Z [4.2.25] - CC 45 SLU Xl=0.21  
 Sollecitazioni: N=-2868.53 Tz=-440.60 My=87.27 Mx=1.55  
 V,Ed=-440.60 Vc,Rd,Red=22232.90 V,Ed/Vc,Rd,Red=0.02

- Verifica in termini tensionali [4.2.4] - CC 9 SND Xl=0.00 - Classe 3  
 Sollecitazioni: N=411.31 Tz=134.12 My=60.58 Ty=-13.09 Mz=-10.59 Mx=-7.90  
 Tensioni:  $\sigma_N=21.65$   $\sigma_M=118.21$   $\tau=9.16$   $\sigma_{max}=139.86$   
 Tensioni:  $\sigma_N=21.65$   $\sigma_M=18.75$   $\tau=22.77$   $\tau_{max}=22.77$   
 Tensioni:  $\sigma_N=21.65$   $\sigma_M=118.21$   $\tau=9.16$   $\sigma_{ID,max}=140.76$

Asta n. 5511 (-9167 -15939) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
 Sollecitazioni: N,Ed=-3418.73 My,Ed=65.53 Mz,Ed=-1.19  
 Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.15  
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=4.76$  Ncr,y=17396100.00  $\lambda^*_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.56$  Ncr,z=9151600.00  $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
 Verifica YY: 0.05+0.02+0.00=0.08  
 Verifica ZZ: 0.05+0.02+0.00=0.07

- Verifica in termini tensionali [4.2.4] - CC 45 SLU Xl=0.00 - Classe 3  
 Sollecitazioni: N=-3418.73 Tz=229.46 My=65.53 Ty=-10.86 Mz=1.10  
 Tensioni:  $\sigma_N=-179.93$   $\sigma_M=-106.92$   $\tau=0.00$   $\sigma_{max}=-286.85$   
 Tensioni:  $\sigma_N=-179.93$   $\sigma_M=1.96$   $\tau=23.29$   $\tau_{max}=23.29$   
 Tensioni:  $\sigma_N=-179.93$   $\sigma_M=-106.92$   $\tau=0.00$   $\sigma_{ID,max}=286.85$

- Verifica a taglio dir. Y [4.2.16] - CC 45 SLU  $X_l=0.02$   
Sollecitazioni:  $N=-3418.34$   $T_z=229.27$   $M_y=60.68$   $T_y=-10.86$   
 $V,Ed=-10.86$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$
- Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=229.27$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.01$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=689.27$   $T_z=90.90$   $M_y=28.79$   $T_y=-15.15$   $M_z=-14.54$   $M_x=-7.38$   
Tensioni:  $\sigma_N=36.28$   $\sigma_M=75.44$   $\tau=8.56$   $\sigma_{max}=111.72$   
Tensioni:  $\sigma_N=36.28$   $\sigma_M=25.77$   $\tau=17.79$   $\tau_{max}=17.79$   
Tensioni:  $\sigma_N=36.28$   $\sigma_M=75.44$   $\tau=8.56$   $\sigma_{ID,max}=112.70$

Asta n. 5517 (-2418 -2501) Tubo 60x80x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1762.46$   $M_y,Ed=-87.11$   $M_z,Ed=-0.16$   
Resistenze:  $N_c,Rd=43952.40$   $M_y,c,Rd=955.82$   $M_z,c,Rd=801.10$   $L=33.85$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=11.48$   $N_{cr,y}=2045940.00$   $\lambda'_y=0.15$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.47$   $N_{cr,z}=1286060.00$   $\lambda'_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.04+0.07+0.00=0.11$   
Verifica ZZ:  $0.04+0.06+0.00=0.10$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3775)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3943)  $f_{z,L}=0.00$  (L/33800)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-1308.79$   $T_z=-261.82$   $M_y=-61.08$   $T_y=-47.91$   $M_z=25.99$   $M_x=-17.31$   
Tensioni:  $\sigma_N=-100.68$   $\sigma_M=-325.71$   $\tau=41.96$   $\sigma_{max}=-426.39$   
Tensioni:  $\sigma_N=-100.68$   $\sigma_M=91.40$   $\tau=82.20$   $\tau_{max}=82.20$   
Tensioni:  $\sigma_N=-100.68$   $\sigma_M=-325.71$   $\tau=41.96$   $\sigma_{ID,max}=432.54$
- Verifica a taglio dir. Z [4.2.16] - CC 75 SLU  $X_l=0.34$   
Sollecitazioni:  $N=-1758.28$   $T_z=-410.69$   $M_y=51.54$   
 $V,Ed=-410.69$   $V_c,Rd=14501.00$   $V,Ed/V_c,Rd=0.03$
- Verifica in termini tensionali [4.2.4] - CC 9 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-763.71$   $T_z=-171.06$   $M_y=-37.55$   $T_y=-11.63$   $M_z=6.23$   $M_x=5.41$   
Tensioni:  $\sigma_N=-58.75$   $\sigma_M=-159.15$   $\tau=13.12$   $\sigma_{max}=-217.89$   
Tensioni:  $\sigma_N=-58.75$   $\sigma_M=-21.93$   $\tau=39.40$   $\tau_{max}=39.40$   
Tensioni:  $\sigma_N=-58.75$   $\sigma_M=-159.15$   $\tau=13.12$   $\sigma_{ID,max}=219.07$

Asta n. 5517 (-2501 -3104) Tubo 60x100x5 mm - S355 Crit. 3

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1758.27$   $M_y,Ed=198.37$   $M_z,Ed=-0.12$   
Resistenze:  $N_c,Rd=50714.30$   $M_y,c,Rd=1327.02$   $M_z,c,Rd=972.02$   $L=35.64$   
 $\alpha_{my}, \alpha_{mz}, \alpha_{LT}=0.95, 0.95, 0.95$   
 $\lambda_y=9.85$   $N_{cr,y}=3202240.00$   $\lambda'_y=0.13$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=14.86$   $N_{cr,z}=1407350.00$   $\lambda'_z=0.19$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}, K_{yz}, K_{zy}, K_{zz}=0.95, 0.95, 0.76, 0.95$   
Verifica YY:  $0.03+0.11+0.00=0.15$   
Verifica ZZ:  $0.03+0.09+0.00=0.13$
- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,g}=0.01$  (L/3765)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,g}=0.01$  (L/3903)  $f_{z,L}=0.00$  (L/14800)
- Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.36$  - Classe 3  
Sollecitazioni:  $N=-1299.86$   $T_z=-266.25$   $M_y=122.34$   $T_y=-47.91$   $M_z=-7.30$   $M_x=-17.31$   
Tensioni:  $\sigma_N=-86.66$   $\sigma_M=-337.09$   $\tau=33.13$   $\sigma_{max}=-423.74$   
Tensioni:  $\sigma_N=-86.66$   $\sigma_M=-21.16$   $\tau=66.20$   $\tau_{max}=66.20$   
Tensioni:  $\sigma_N=-86.66$   $\sigma_M=-337.09$   $\tau=33.13$   $\sigma_{ID,max}=427.61$

- Verifica a taglio dir. Z [4.2.16] - CC 75 SLU  $X_l=0.36$   
Sollecitazioni:  $N=-1753.19$   $T_z=-413.24$   $M_y=198.37$   
 $V,Ed=-413.24$   $V_c,Rd=18300.50$   $V,Ed/V_c,Rd=0.02$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.36$  - Classe 3  
Sollecitazioni:  $N=-829.07$   $T_z=-199.93$   $M_y=108.97$   $T_y=-7.58$   $M_z=-1.23$   $M_x=3.27$   
Tensioni:  $\sigma_N=-55.27$   $\sigma_M=-281.88$   $\tau=6.26$   $\sigma_{max}=-337.16$   
Tensioni:  $\sigma_N=-55.27$   $\sigma_M=3.56$   $\tau=31.09$   $\tau_{max}=31.09$   
Tensioni:  $\sigma_N=-55.27$   $\sigma_M=-281.88$   $\tau=6.26$   $\sigma_{ID,max}=337.33$
- Asta n. 5517 (-3104 -6010) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 75 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-1753.18$   $M_y,Ed=324.28$   $M_z,Ed=0.97$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=30.37$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$   
 $\lambda_y=6.83$   $N_{cr,y}=8441070.00$   $\lambda^*_y=0.09$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=9.42$   $N_{cr,z}=4440600.00$   $\lambda^*_z=0.12$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$   
Verifica YY:  $0.03+0.12+0.00=0.15$   
Verifica ZZ:  $0.03+0.10+0.00=0.12$
  - Verifica in termini tensionali [4.2.4] - CC 74 SLU  $X_l=0.30$  - Classe 3  
Sollecitazioni:  $N=-1339.68$   $T_z=-352.97$   $M_y=280.16$   $T_y=2.49$   $M_z=1.10$   
Tensioni:  $\sigma_N=-70.51$   $\sigma_M=-449.79$   $\tau=0.00$   $\sigma_{max}=-520.29$   
Tensioni:  $\sigma_N=-70.51$   $\sigma_M=1.95$   $\tau=35.83$   $\tau_{max}=35.83$   
Tensioni:  $\sigma_N=-70.51$   $\sigma_M=-449.79$   $\tau=0.00$   $\sigma_{ID,max}=520.29$
  - Verifica a taglio dir. Y [4.2.16] - CC 75 SLU  $X_l=0.30$   
Sollecitazioni:  $N=-1747.70$   $T_z=-415.96$   $M_y=324.28$   $T_y=2.34$   
 $V,Ed=2.34$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$
  - Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=-415.96$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.02$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.30$  - Classe 3  
Sollecitazioni:  $N=-824.10$   $T_z=-203.54$   $M_y=170.21$   $T_y=7.76$   $M_z=3.59$   $M_x=-3.28$   
Tensioni:  $\sigma_N=-43.37$   $\sigma_M=-279.18$   $\tau=3.80$   $\sigma_{max}=-322.55$   
Tensioni:  $\sigma_N=-43.37$   $\sigma_M=6.36$   $\tau=24.46$   $\tau_{max}=24.46$   
Tensioni:  $\sigma_N=-43.37$   $\sigma_M=-279.18$   $\tau=3.80$   $\sigma_{ID,max}=322.62$
- Asta n. 5517 (-6010 -9432) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 49 SLU - Classe 3  
Sollecitazioni:  $N,Ed=-3015.85$   $M_y,Ed=223.99$   $M_z,Ed=-0.60$   
Resistenze:  $N_c,Rd=64238.10$   $M_y,c,Rd=2116.38$   $M_z,c,Rd=1670.05$   $L=23.11$   
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ ,  $0.95$ ,  $0.95$   
 $\lambda_y=5.20$   $N_{cr,y}=14581000.00$   $\lambda^*_y=0.07$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=7.17$   $N_{cr,z}=7670620.00$   $\lambda^*_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
 $K_{yy}$ ,  $K_{yz}$ ,  $K_{zy}$ ,  $K_{zz}=0.95$ ,  $0.95$ ,  $0.76$ ,  $0.95$   
Verifica YY:  $0.05+0.08+0.00=0.13$   
Verifica ZZ:  $0.05+0.07+0.00=0.11$
  - Verifica in termini tensionali [4.2.4] - CC 37 SLU  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-752.16$   $T_z=357.88$   $M_y=168.03$   $T_y=-29.86$   $M_z=-24.23$   $M_x=-15.47$   
Tensioni:  $\sigma_N=-39.59$   $\sigma_M=-317.49$   $\tau=17.94$   $\sigma_{max}=-357.08$   
Tensioni:  $\sigma_N=-39.59$   $\sigma_M=42.93$   $\tau=54.27$   $\tau_{max}=54.27$   
Tensioni:  $\sigma_N=-39.59$   $\sigma_M=-317.49$   $\tau=17.94$   $\sigma_{ID,max}=358.43$
  - Verifica a taglio dir. Y [4.2.16] - CC 75 SLU  $X_l=0.00$   
Sollecitazioni:  $N=-1109.94$   $T_z=611.08$   $M_y=269.83$   $T_y=-1.83$   
 $V,Ed=-1.83$   $V_c,Rd=14835.60$   $V,Ed/V_c,Rd=0.00$
  - Verifica a taglio dir. Z [4.2.16]  
 $V,Ed=611.08$   $V_c,Rd=22253.40$   $V,Ed/V_c,Rd=0.03$
  - Verifica in termini tensionali [4.2.4] - CC 1 SND  $X_l=0.00$  - Classe 3  
Sollecitazioni:  $N=-423.83$   $T_z=375.19$   $M_y=143.59$   $T_y=-7.31$   $M_z=3.22$   $M_x=3.37$   
Tensioni:  $\sigma_N=-22.31$   $\sigma_M=-235.90$   $\tau=3.90$   $\sigma_{max}=-258.20$

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Tensioni:  $\sigma_N=-22.31$   $\sigma_M=5.70$   $\tau=41.99$   $\tau_{max}=41.99$   
Tensioni:  $\sigma_N=-22.31$   $\sigma_M=-235.90$   $\tau=3.90$   $\sigma_{ID,max}=258.29$

Asta n. 5517 (-9432 -16599) Tubo 80x120x5 mm - S355 Crit. 3

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- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 45 SLU - Classe 3  
Sollecitazioni: N,Ed=-4790.96 My,Ed=132.88 Mz,Ed=0.38  
Resistenze: Nc,Rd=64238.10 My,c,Rd=2116.38 Mz,c,Rd=1670.05 L=21.36  
 $\alpha_{my}$ ,  $\alpha_{mz}$ ,  $\alpha_{LT}=0.95$ , 0.95, 0.95  
 $\lambda_y=4.80$  Ncr,y=17068200.00  $\lambda'_y=0.06$  Curva a:  $\Phi_y=0.00$   $\chi_y=1.00$   
 $\lambda_z=6.62$  Ncr,z=8979070.00  $\lambda'_z=0.09$  Curva a:  $\Phi_z=0.00$   $\chi_z=1.00$   
Kyy, Kyz, Kzy, Kzz=0.95, 0.95, 0.76, 0.95  
Verifica YY: 0.07+0.05+0.00=0.12  
Verifica ZZ: 0.07+0.04+0.00=0.11

- Verifica in termini tensionali [4.2.4] - CC 37 SLU Xl=0.00 - Classe 3  
Sollecitazioni: N=104.41 Tz=249.33 My=78.28 Mz=-35.29 Mx=-13.34  
Tensioni:  $\sigma_N=5.50$   $\sigma_M=196.50$   $\tau=15.47$   $\sigma_{max}=201.99$   
Tensioni:  $\sigma_N=5.50$   $\sigma_M=62.51$   $\tau=40.78$   $\tau_{max}=40.78$   
Tensioni:  $\sigma_N=5.50$   $\sigma_M=196.50$   $\tau=15.47$   $\sigma_{ID,max}=203.76$

- Verifica a taglio dir. Z [4.2.16] - CC 45 SLU Xl=0.00  
Sollecitazioni: N=-4790.96 Tz=534.25 My=132.88  
V,Ed=534.25 Vc,Rd=22253.40 V,Ed/Vc,Rd=0.02

- Verifica in termini tensionali [4.2.4] - CC 1 SND Xl=0.00 - Classe 3  
Sollecitazioni: N=221.54 Tz=292.12 My=57.23 Ty=-7.77 Mz=5.36 Mx=3.06  
Tensioni:  $\sigma_N=11.66$   $\sigma_M=102.28$   $\tau=3.54$   $\sigma_{max}=113.94$   
Tensioni:  $\sigma_N=11.66$   $\sigma_M=9.50$   $\tau=33.20$   $\tau_{max}=33.20$   
Tensioni:  $\sigma_N=11.66$   $\sigma_M=102.28$   $\tau=3.54$   $\sigma_{ID,max}=114.11$

**Membratura**

Asta n. 2355 (2309 -2524 -2490 -2480) Tubo circolare d=101.6x6 mm - S355 Crit. 3

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.91$  (L/322)  $f_{z,G}=0.61$  (L/483)  
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=1.20$  (L/244)  $f_{z,G}=0.64$  (L/458)

**Membratura**

Asta n. 2355 (-2480 -2473 -2460 -2434) Tubo circolare d=114.3x6 mm - S355 Crit. 3

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.25$  (L/1161)  $f_{z,G}=0.06$  (L/5167)  
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.47$  (L/626)  $f_{z,G}=0.11$  (L/2796)

**Membratura**

Asta n. 2355 (-2434 -2429 -2421 -2418) Tubo circolare d=139.7x6 mm - S355 Crit. 3

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=1.06$  (L/275)  $f_{z,G}=1.00$  (L/294)  
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=1.16$  (L/253)  $f_{z,G}=1.03$  (L/284)

**Membratura**

Asta n. 2370 (2308 -2523 -2489 -2479) Tubo circolare d=101.6x6 mm - S355 Crit. 3

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.92$  (L/321)  $f_{z,G}=0.61$  (L/485)  
- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=1.21$  (L/243)  $f_{z,G}=0.64$  (L/461)

**Membratura**

Asta n. 2370 (-2479 -2472 -2459 -2433) Tubo circolare d=114.3x6 mm - S355 Crit. 3

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 56

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$f_{z,L}=0.26$  (L/1145)  $f_{z,G}=0.06$  (L/5118)

- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.47$  (L/622)  $f_{z,G}=0.11$  (L/2786)

**Membratura**

Asta n. 2370 (-2433 -2428 -2420 -2417) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=1.06$  (L/275)  $f_{z,G}=1.00$  (L/294)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=1.16$  (L/252)  $f_{z,G}=1.03$  (L/283)

**Membratura**

Asta n. 2687 (-2417 -2422 -2430 -2435) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 38  
 $f_{z,L}=1.00$  (L/294)
- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,G}=1.03$  (L/283)

**Membratura**

Asta n. 2687 (-2435 -2461 -2474 -2481) Tubo circolare d=114.3x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.20$  (L/1453)  $f_{z,G}=0.06$  (L/5319)
- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.37$  (L/788)  $f_{z,G}=0.10$  (L/2888)

**Membratura**

Asta n. 2687 (-2481 -2491 -2529 2312) Tubo circolare d=101.6x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 116  
 $f_{z,L}=0.65$  (L/450)  $f_{z,G}=0.56$  (L/526)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.66$  (L/446)

**Membratura**

Asta n. 2702 (-2418 -2423 -2431 -2436) Tubo circolare d=139.7x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 38  
 $f_{z,L}=1.00$  (L/293)
- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=1.03$  (L/283)

**Membratura**

Asta n. 2702 (-2436 -2462 -2475 -2482) Tubo circolare d=114.3x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.20$  (L/1476)  $f_{z,G}=0.06$  (L/5335)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.37$  (L/795)  $f_{z,G}=0.10$  (L/2885)

**Membratura**

Asta n. 2702 (-2482 -2492 -2530 2313) Tubo circolare d=101.6x6 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 96  
 $f_{z,L}=0.65$  (L/452)  $f_{z,G}=0.56$  (L/524)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,G}=0.66$  (L/445)

**Membratura**

Asta n. 3063 (-3028 2810 -8282 -9826 -13294) Tubo 80x120x5 mm - S355 Crit. 3  
-----

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.18$  (L/385)

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- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.22$  (L/302)  $f_{z,G}=0.00$  (L/23618)

**Membratura**

Asta n. 3064 (-3029 2811 -8283 -13302) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.13$  (L/518)  $f_{z,G}=0.00$  (L/25410)
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.11$  (L/591)  $f_{z,G}=0.01$  (L/11760)

**Membratura**

Asta n. 3231 (-3096 3001 -9176 -11637 -15964) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.27$  (L/272)  $f_{z,G}=0.00$  (L/37792)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.33$  (L/221)  $f_{z,G}=0.00$  (L/17500)

**Membratura**

Asta n. 3318 (2308 -2703 -2932 -3124 -3350 -3678 -4184) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.03$  (L/1470)  $f_{z,G}=0.01$  (L/2825)
- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.05$  (L/898)  $f_{z,G}=0.02$  (L/1752)

**Membratura**

Asta n. 3318 (-7067 -7782 -8583 3501) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 46  
 $f_{z,L}=0.00$  (L/15995)
- Verifica Freccia massima carichi totali - CC 46  
 $f_{z,L}=0.00$  (L/15311)

**Membratura**

Asta n. 3338 (2312 -2726 -2945 -3126 -3352 -3690 -4196) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.03$  (L/1524)  $f_{z,G}=0.01$  (L/2763)
- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.04$  (L/929)  $f_{z,G}=0.02$  (L/1711)

**Membratura**

Asta n. 3338 (-4196 -5560 -7070) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.00$  (L/18095)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.00$  (L/9002)

**Membratura**

Asta n. 3867 (-2994 -4472 -6026 -7517 -8365 -9160 -11069) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.03$  (L/1890)  $f_{z,G}=0.01$  (L/7397)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.04$  (L/1542)  $f_{z,G}=0.02$  (L/4117)

**Membratura**

Asta n. 3873 (-3005 -4784 -5483 -6207 -7012 -7717 -8509 -9385) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.10$  (L/558)  $f_{z,G}=0.00$  (L/20454)

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- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.13$  (L/424)  $f_{z,G}=0.01$  (L/8604)

**Membratura**

Asta n. 3878 (-3010 -4971 -7990 -8788 -9571 -12547) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.15$  (L/446)  $f_{z,G}=0.00$  (L/44246)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.19$  (L/343)  $f_{z,G}=0.00$  (L/14405)

**Membratura**

Asta n. 3888 (-3026 -5217 -6661 -8242) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.19$  (L/253)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.24$  (L/197)  $f_{z,G}=0.00$  (L/19919)

**Membratura**

Asta n. 3889 (-3027 -5218 -6662 -8243 -9843 -13266) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.14$  (L/486)  $f_{z,G}=0.00$  (L/27365)
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.12$  (L/559)  $f_{z,G}=0.01$  (L/11160)

**Membratura**

Asta n. 3895 (-3043 -5385 -8440 -10136 -13934) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.22$  (L/315)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.28$  (L/249)  $f_{z,G}=0.00$  (L/33006)

**Membratura**

Asta n. 3896 (-3044 -5386 -8441 -10137 -13942) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.17$  (L/417)  $f_{z,G}=0.00$  (L/27145)
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.13$  (L/529)  $f_{z,G}=0.00$  (L/14595)

**Membratura**

Asta n. 3902 (-3057 -5612 -8662 -10382 -14613) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.19$  (L/378)  $f_{z,G}=0.00$  (L/32922)
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.13$  (L/524)  $f_{z,G}=0.00$  (L/25325)

**Membratura**

Asta n. 3903 (-3056 -5611 -8671 -10452 -14605) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.25$  (L/288)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.31$  (L/231)

**Membratura**

Asta n. 3908 (-3070 -5809 -8967 -15270) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.27$  (L/271)
- Verifica Freccia massima carichi totali - CC 70

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$f_{z,L}=0.33$  (L/218)  $f_{z,G}=0.00$  (L/67900)

**Membratura**

Asta n. 3914 (-3094 -6033 -9174 -15931) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.28$  (L/260)  $f_{z,G}=0.00$  (L/40795)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.35$  (L/210)  $f_{z,G}=0.00$  (L/18064)

**Membratura**

Asta n. 3924 (-3103 -5974 -9431 -16591) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.28$  (L/267)  $f_{z,G}=0.01$  (L/14945)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.35$  (L/216)  $f_{z,G}=0.01$  (L/6464)

**Membratura**

Asta n. 3930 (-3097 -6035 -9177 -11706 -15972) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.22$  (L/338)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.15$  (L/488)  $f_{z,G}=0.00$  (L/27500)

**Membratura**

Asta n. 3936 (-3073 -5566 -8969 -11052 -15311) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.19$  (L/374)  $f_{z,G}=0.00$  (L/43790)
  - Verifica Freccia massima carichi totali - CC 69  
 $f_{z,L}=0.13$  (L/542)  $f_{z,G}=0.00$  (L/61664)

**Membratura**

Asta n. 3937 (-3072 -5563 -8955 -11020 -15303) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.25$  (L/285)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.31$  (L/231)  $f_{z,G}=0.00$  (L/57010)

**Membratura**

Asta n. 3945 (-3059 -5359 -8681 -14648) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.18$  (L/397)  $f_{z,G}=0.00$  (L/32922)
  - Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=0.13$  (L/556)

**Membratura**

Asta n. 3946 (-3058 -5358 -8680 -14640) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.23$  (L/303)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.29$  (L/244)

**Membratura**

Asta n. 3955 (-3045 -5111 -8442 -10071 -13971) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.21$  (L/336)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.26$  (L/267)  $f_{z,G}=0.00$  (L/37000)



**Membratura**

Asta n. 3956 (-3046 -5112 -8464 -10076 -13979) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 50  
 $f_{z,L}=0.38$  (L/184)  $f_{z,G}=0.35$  (L/200)
  - Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.40$  (L/174)  $f_{z,G}=0.34$  (L/200)

**Membratura**

Asta n. 3972 (-3012 -4518 -7996 -12571) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.15$  (L/440)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.20$  (L/337)  $f_{z,G}=0.00$  (L/17983)

**Membratura**

Asta n. 3973 (-3013 -5000 -7997 -12579) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.11$  (L/579)  $f_{z,G}=0.00$  (L/25341)
  - Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.11$  (L/600)  $f_{z,G}=0.01$  (L/9645)

**Membratura**

Asta n. 3981 (-3007 -4377 -7726 -11793) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.08$  (L/791)  $f_{z,G}=0.00$  (L/29663)
  - Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.09$  (L/707)  $f_{z,G}=0.01$  (L/7864)

**Membratura**

Asta n. 3982 (-3006 -4376 -7725 -11785) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.12$  (L/564)  $f_{z,G}=0.00$  (L/33691)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.15$  (L/424)  $f_{z,G}=0.01$  (L/11394)

**Membratura**

Asta n. 3991 (-2996 -4237 -7519 -9118 -11101) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.06$  (L/1057)  $f_{z,G}=0.00$  (L/13319)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.08$  (L/799)  $f_{z,G}=0.01$  (L/6529)

**Membratura**

Asta n. 3992 (-7553 -9122 -11109) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.02$  (L/1098)
  - Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.03$  (L/751)

**Membratura**

Asta n. 4117 (2309 -2704 -2944 -3125 -3351 -3679 -4185) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.02$  (L/1859)  $f_{z,G}=0.01$  (L/3698)
  - Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.04$  (L/1030)  $f_{z,G}=0.02$  (L/2052)

**Membratura**

Asta n. 4117 (-4185 -5556 -7068 -7816 -8584 3502) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.00$  (L/24881)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.00$  (L/14331)  $f_{z,G}=0.00$  (L/26345)

**Membratura**

Asta n. 4136 (-2727 -2946 -3127 -3353 -3691 -4197) Tubo 80x100x(2x5+6) mm - S355 (32) Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 108  
 $f_{z,L}=0.28$  (L/110)  $f_{z,G}=0.28$  (L/111)
  - Verifica Freccia massima carichi totali - CC 108  
 $f_{z,L}=0.27$  (L/113)

**Membratura**

Asta n. 4136 (-4197 -5565 -6282 -7071 -7817 -8599 3504) Tubo 80x120x5 mm - S355 Crit. 3

- 
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.00$  (L/23266)
  - Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.00$  (L/14684)  $f_{z,G}=0.00$  (L/28436)

**Membratura**

Asta n. 4354 (-10277 -10338 -10416 -10486 -10581 -10681 -10772 -10837 -10912 -10979 -11060 -11122 -11188 -11254 -11326 -11392 -11462 -11532 -11602 -11676 -11740) Tubo 60x120x4 mm - S235 Crit. 2

- 
- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni:  $N=-3450.51$   $L=195.50$   
 $\lambda_y=45.40$   $N_{cr,y}=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$   
 $\lambda_z=78.77$   $N_{cr,z}=45969.00$   $\lambda^*_z=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi_{,min}=0.77$   $N_{,Ed}=-3450.51$   $N_{b,Rd}=23800.80$   $N_{,Ed/N_{b,Rd}}=0.14$
  - Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.06$  (L/3057)  $f_{z,G}=0.02$  (L/8686)
  - Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.12$  (L/1667)  $f_{z,G}=0.04$  (L/4800)

**Membratura**

Asta n. 4354 (-11740 -11806 -11861 -11994 -12095 -12143 -12222 -12294 -12362 -12428 -12508 -12592 -12666 -12737 -12807 -12877 -12954 -13038 -13105 -13183 -13246) Tubo 60x120x4 mm - S235 Crit. 2

- 
- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni:  $N=-5935.12$   $L=195.50$   
 $\lambda_y=45.40$   $N_{cr,y}=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$   
 $\lambda_z=78.77$   $N_{cr,z}=45969.00$   $\lambda^*_z=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi_{,min}=0.77$   $N_{,Ed}=-5935.12$   $N_{b,Rd}=23800.80$   $N_{,Ed/N_{b,Rd}}=0.25$
  - Verifica Freccia massima per soli carichi accidentali - CC 56  
 $f_{z,L}=0.07$  (L/2907)  $f_{z,G}=0.04$  (L/5296)
  - Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.12$  (L/1621)  $f_{z,G}=0.07$  (L/2975)

**Membratura**

Asta n. 4354 (-13246 -13315 -13382 -13454 -13524 -13590 -13656 -13722 -13788 -13854 -13922 -13992 -14057 -14127 -14193 -14259 -14325 -14391 -14457 -14523 -14593) Tubo 60x120x4 mm - S235 Crit. 2

- 
- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni:  $N=-7241.69$   $L=195.50$   
 $\lambda_y=45.40$   $N_{cr,y}=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

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$\lambda_z=78.77$  Ncr, z=45969.00  $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi$ ,min=0.77 N,Ed=-7241.69 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.30

- Verifica Freccia massima per soli carichi accidentali - CC 56

$f_{z,L}=0.05$  (L/4252)  $f_{z,G}=0.03$  (L/6754)

- Verifica Freccia massima carichi totali - CC 56

$f_{z,L}=0.08$  (L/2354)  $f_{z,G}=0.05$  (L/3778)

**Membratura**

Asta n. 4354 (-14593 -14661 -14727 -14793 -14859 -14925 -14991 -15057 -15123 -15191 -15258 -15324 -15390 -15456 -15522 -15588 -15654 -15720 -15786 -15852 -15919) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-8014.12 L=195.50

$\lambda_y=45.40$  Ncr, y=138395.00  $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr, z=45969.00  $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi$ ,min=0.77 N,Ed=-8014.12 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.34

- Verifica Freccia massima per soli carichi accidentali - CC 56

$f_{z,L}=0.04$  (L/5466)  $f_{z,G}=0.03$  (L/6591)

- Verifica Freccia massima carichi totali - CC 56

$f_{z,L}=0.07$  (L/2990)  $f_{z,G}=0.05$  (L/3650)

**Membratura**

Asta n. 4354 (-15919 -15985 -16051 -16117 -16183 -16249 -16315 -16381 -16447 -16513 -16579) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-9145.84 L=97.75

$\lambda_y=22.70$  Ncr, y=553580.00  $\lambda^*_y=0.24$

Curva a:  $\Phi_y=0.53$   $\chi_y=0.99$

$\lambda_z=39.38$  Ncr, z=183876.00  $\lambda^*_z=0.42$

Curva a:  $\Phi_z=0.61$   $\chi_z=0.95$

$\chi$ ,min=0.95 N,Ed=-9145.84 Nb,Rd=29183.10 N,Ed/Nb,Rd=0.31

- Verifica Freccia massima per soli carichi accidentali - CC 38

$f_{z,L}=0.01$  (L/8723)  $f_{z,G}=0.00$  (L/68330)

- Verifica Freccia massima carichi totali - CC 38

$f_{z,L}=0.01$  (L/8505)  $f_{z,G}=0.00$  (L/97615)

**Membratura**

Asta n. 4354 (-16579 -16546 -16480 -16414 -16348 -16282 -16216 -16150 -16084 -16018 -15952 -15886 -15819 -15753 -15687 -15621 -15555 -15489 -15423 -15357 -15291) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-9142.24 L=195.50

$\lambda_y=45.40$  Ncr, y=138395.00  $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr, z=45968.90  $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi$ ,min=0.77 N,Ed=-9142.24 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.38

- Verifica Freccia massima per soli carichi accidentali - CC 38

$f_{z,L}=0.04$  (L/5150)  $f_{z,G}=0.03$  (L/6497)

- Verifica Freccia massima carichi totali - CC 38

$f_{z,L}=0.06$  (L/3448)  $f_{z,G}=0.05$  (L/3900)

**Membratura**

Asta n. 4354 (-15291 -15225 -15158 -15090 -15024 -14958 -14892 -14826 -14760 -14694 -14628 -14560 -14490 -14424 -14358 -14292 -14226 -14160 -14094 -14026 -13959) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-7639.99 L=195.50

$\lambda_y=45.40$  Ncr,  $y=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr,  $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N, Ed=-7639.99 Nb, Rd=23800.80 N, Ed/Nb, Rd=0.32

- Verifica Freccia massima per soli carichi accidentali - CC 50

$f_{z,g}=0.03$  (L/7663)

- Verifica Freccia massima carichi totali - CC 50

$f_{z,g}=0.05$  (L/4311)

#### Membratura

Asta n. 4354 (-13959 -13889 -13821 -13755 -13689 -13623 -13557 -13491 -13421 -13349 -13282 -13213 -13146 -13123 -13005 -12922 -12844 -12774 -12704 -12633 -12559) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-6659.25 L=195.50

$\lambda_y=45.40$  Ncr,  $y=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr,  $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N, Ed=-6659.25 Nb, Rd=23800.80 N, Ed/Nb, Rd=0.28

- Verifica Freccia massima per soli carichi accidentali - CC 56

$f_{z,g}=0.03$  (L/6476)

- Verifica Freccia massima carichi totali - CC 56

$f_{z,L}=0.05$  (L/3612)

#### Membratura

Asta n. 4354 (-12559 -12479 -12395 -12329 -12261 -12189 -12148 -12041 -11921 -11894 -11773 -11707 -11669 -11569 -11499 -11429 -11359 -11293 -11221 -11155 -11089) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-4990.64 L=195.50

$\lambda_y=45.40$  Ncr,  $y=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr,  $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N, Ed=-4990.64 Nb, Rd=23800.80 N, Ed/Nb, Rd=0.21

- Verifica Freccia massima per soli carichi accidentali - CC 56

$f_{z,g}=0.04$  (L/4851)

- Verifica Freccia massima carichi totali - CC 56

$f_{z,g}=0.07$  (L/2688)

#### Membratura

Asta n. 4354 (-11089 -11021 -10946 -10877 -10805 -10739 -10657 -10629 -10453 -10385 -10349) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 56

$f_{z,L}=0.05$  (L/2064)  $f_{z,g}=0.01$  (L/13575)

- Verifica Freccia massima carichi totali - CC 56

$f_{z,L}=0.09$  (L/1138)  $f_{z,g}=0.01$  (L/7400)

#### Membratura

Asta n. 4360 (-10307 -10381 -10451 -10518 -10627 -10718 -10804 -10873 -10944 -11011 -11088 -11154 -11220 -11286 -11358 -11424 -11494 -11564 -11634 -11682 -11772) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-3457.17 L=195.50

$\lambda_y=45.40$  Ncr,  $y=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr,  $z=45969.00$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N, Ed=-3457.17 Nb, Rd=23800.80 N, Ed/Nb, Rd=0.15

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.06$  (L/3103)  $f_{z,G}=0.02$  (L/9030)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.12$  (L/1696)  $f_{z,G}=0.04$  (L/5018)

#### Membratura

Asta n. 4360 (-11772 -11838 -11906 -12003 -12072 -12173 -12254 -12326 -12394 -12460 -12543 -12624 -12698 -12769 -12839 -12909 -12989 -13070 -13140 -13212 -13278) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni: N=-5946.43 L=195.50  
 $\lambda_y=45.40$  Ncr, $y=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$   
 $\lambda_z=78.77$  Ncr, $z=45969.00$   $\lambda^*_z=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi_{,min}=0.77$  N,Ed=-5946.43 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.25

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.06$  (L/3094)  $f_{z,G}=0.03$  (L/5686)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.12$  (L/1676)  $f_{z,G}=0.06$  (L/3096)

#### Membratura

Asta n. 4360 (-13278 -13347 -13414 -13486 -13556 -13622 -13688 -13754 -13820 -13886 -13954 -14024 -14091 -14159 -14225 -14291 -14357 -14423 -14489 -14555 -14625) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni: N=-7244.58 L=195.50  
 $\lambda_y=45.40$  Ncr, $y=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$   
 $\lambda_z=78.77$  Ncr, $z=45969.00$   $\lambda^*_z=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi_{,min}=0.77$  N,Ed=-7244.58 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.30

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/4456)  $f_{z,G}=0.03$  (L/7167)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.08$  (L/2403)  $f_{z,G}=0.05$  (L/3878)

#### Membratura

Asta n. 4360 (-14625 -14693 -14759 -14825 -14891 -14957 -15023 -15089 -15157 -15223 -15290 -15356 -15422 -15488 -15554 -15620 -15686 -15752 -15818 -15884 -15951) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni: N=-8021.25 L=195.50  
 $\lambda_y=45.40$  Ncr, $y=138395.00$   $\lambda^*_y=0.48$   
Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$   
 $\lambda_z=78.77$  Ncr, $z=45969.00$   $\lambda^*_z=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi_{,min}=0.77$  N,Ed=-8021.25 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.34

- Verifica Freccia massima per soli carichi accidentali - CC 50  
 $f_{z,L}=0.03$  (L/5654)  $f_{z,G}=0.03$  (L/6396)

- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.06$  (L/3057)  $f_{z,G}=0.05$  (L/3596)

#### Membratura

Asta n. 4360 (-15951 -16017 -16083 -16149 -16215 -16281 -16347 -16413 -16479 -16545 -16611) Tubo 60x120x4 mm - S235 Crit. 2

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- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU  
Sollecitazioni: N=-9138.74 L=97.75  
 $\lambda_y=22.70$  Ncr, $y=553580.00$   $\lambda^*_y=0.24$   
Curva a:  $\Phi_y=0.53$   $\chi_y=0.99$   
 $\lambda_z=39.38$  Ncr, $z=183876.00$   $\lambda^*_z=0.42$   
Curva a:  $\Phi_z=0.61$   $\chi_z=0.95$

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$\chi_{,min}=0.95$  N,Ed=-9138.74 Nb,Rd=29183.10 N,Ed/Nb,Rd=0.31

- Verifica Freccia massima per soli carichi accidentali - CC 38  
 $f_{z,L}=0.01$  (L/8723)  $f_{z,G}=0.00$  (L/66126)

- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=0.01$  (L/8577)  $f_{z,G}=0.00$  (L/89127)

**Membratura**

Asta n. 4360 (-16611 -16578 -16512 -16446 -16380 -16314 -16248 -16182 -16116 -16050 -15984 -15918 -15851 -15785 -15719 -15653 -15587 -15521 -15455 -15389 -15323) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-9143.33 L=195.50

$\lambda_y=45.40$  Ncr, $\gamma=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr, $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N,Ed=-9143.33 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.38

- Verifica Freccia massima per soli carichi accidentali - CC 38  
 $f_{z,L}=0.04$  (L/5202)  $f_{z,G}=0.03$  (L/6559)

- Verifica Freccia massima carichi totali - CC 38  
 $f_{z,L}=0.06$  (L/3483)  $f_{z,G}=0.05$  (L/3942)

**Membratura**

Asta n. 4360 (-15323 -15257 -15190 -15122 -15056 -14990 -14924 -14858 -14792 -14726 -14660 -14592 -14522 -14456 -14390 -14324 -14258 -14192 -14126 -14056 -13991) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-7641.45 L=195.50

$\lambda_y=45.40$  Ncr, $\gamma=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr, $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N,Ed=-7641.45 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.32

- Verifica Freccia massima per soli carichi accidentali - CC 50  
 $f_{z,G}=0.03$  (L/7634)

- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,G}=0.05$  (L/4297)

**Membratura**

Asta n. 4360 (-13991 -13921 -13853 -13787 -13721 -13655 -13589 -13523 -13453 -13381 -13314 -13245 -13182 -13104 -13037 -12953 -12876 -12806 -12736 -12665 -12591) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-6658.40 L=195.50

$\lambda_y=45.40$  Ncr, $\gamma=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

$\lambda_z=78.77$  Ncr, $z=45968.90$   $\lambda^*_z=0.84$

Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$

$\chi_{,min}=0.77$  N,Ed=-6658.40 Nb,Rd=23800.80 N,Ed/Nb,Rd=0.28

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/6878)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,G}=0.05$  (L/3727)

**Membratura**

Asta n. 4360 (-12591 -12507 -12427 -12361 -12293 -12221 -12156 -12059 -11966 -11875 -11805 -11739 -11675 -11601 -11531 -11461 -11391 -11325 -11253 -11187 -11121) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 45 SLU

Sollecitazioni: N=-4993.52 L=195.50

$\lambda_y=45.40$  Ncr, $\gamma=138395.00$   $\lambda^*_y=0.48$

Curva a:  $\Phi_y=0.65$   $\chi_y=0.93$

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$\lambda_z=78.77$  Ncr,  $z=45968.90$   $\lambda_z^*=0.84$   
Curva a:  $\Phi_z=0.92$   $\chi_z=0.77$   
 $\chi, \min=0.77$  N, Ed=-4993.52 Nb, Rd=23800.80 N, Ed/Nb, Rd=0.21

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/4993)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.07$  (L/2738)

**Membratura**

Asta n. 4360 (-11121 -11059 -10978 -10911 -10836 -10771 -10680 -10580 -10485 -10415 -10337) Tubo 60x120x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.05$  (L/2133)  $f_{z,G}=0.01$  (L/13225)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.08$  (L/1158)  $f_{z,G}=0.01$  (L/7373)

**Membratura**

Asta n. 4662 (-2995 -4464 -6027 -7518 -9159 -11077) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.03$  (L/2015)
- Verifica Freccia massima carichi totali - CC 69  
 $f_{z,L}=0.02$  (L/2702)  $f_{z,G}=0.01$  (L/10768)

**Membratura**

Asta n. 4677 (-3011 -4998 -5913 -6971 -7991 -8789 -9572 -12534) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.11$  (L/607)  $f_{z,G}=0.00$  (L/24668)
- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.10$  (L/638)  $f_{z,G}=0.01$  (L/9139)

**Membratura**

Asta n. 4998 (3501 -10359 -10440 -10498 -10588 -10700 -10784 -10842 -10927 -10991 -11069 -11134 -11200 -11266 -11338 -11404 -11474 -11544 -11614 -11686 -11752) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/5055)  $f_{z,G}=0.01$  (L/26972)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.07$  (L/2751)  $f_{z,G}=0.01$  (L/15072)

**Membratura**

Asta n. 4998 (-11752 -11818 -11882 -12009 -12097 -12160 -12234 -12306 -12374 -12440 -12547 -12604 -12678 -12749 -12819 -12889 -12972 -13050 -13127 -13192 -13258) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU  
Sollecitazioni: N=-3774.56 L=195.50  
 $\lambda_y=62.92$  Ncr,  $y=63658.30$   $\lambda_y^*=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$  Ncr,  $z=63658.30$   $\lambda_z^*=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi, \min=0.86$  N, Ed=-3774.56 Nb, Rd=23442.70 N, Ed/Nb, Rd=0.16
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.05$  (L/4244)  $f_{z,G}=0.02$  (L/9490)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.09$  (L/2291)  $f_{z,G}=0.04$  (L/5131)

**Membratura**

Asta n. 4998 (-13258 -13327 -13394 -13466 -13536 -13602 -13668 -13734 -13800 -13866 -13934 -14004 -14076 -14139 -14205 -14271 -14337 -14403 -14469 -14535 -14605) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU  
Sollecitazioni: N=-4664.69 L=195.50

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$\lambda_y=62.92$  Ncr,  $y=63658.30$   $\lambda_y^*=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr,  $z=63658.20$   $\lambda_z^*=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N, Ed=-4664.69 Nb, Rd=23442.70 N, Ed/Nb, Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/4880)  $f_{z,G}=0.02$  (L/8418)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.07$  (L/2641)  $f_{z,G}=0.04$  (L/4550)

**Membratura**

Asta n. 4998 (-14605 -14673 -14739 -14805 -14871 -14937 -15003 -15069 -15129 -15203 -15270 -15336 -15402 -15468 -15534 -15600 -15666 -15732 -15798 -15864 -15931) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU

Sollecitazioni: N=-4750.19 L=195.50

$\lambda_y=62.92$  Ncr,  $y=63658.30$   $\lambda_y^*=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr,  $z=63658.30$   $\lambda_z^*=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N, Ed=-4750.19 Nb, Rd=23442.70 N, Ed/Nb, Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/6623)  $f_{z,G}=0.02$  (L/9131)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.05$  (L/3580)  $f_{z,G}=0.04$  (L/4933)

**Membratura**

Asta n. 4998 (-15931 -15997 -16063 -16129 -16195 -16261 -16327 -16393 -16459 -16525 -16591) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 38  
 $f_{z,L}=0.01$  (L/15768)  $f_{z,G}=0.00$  (L/85413)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.01$  (L/9360)  $f_{z,G}=0.01$  (L/12576)

**Membratura**

Asta n. 4998 (-16591 -16558 -16492 -16426 -16360 -16294 -16228 -16162 -16096 -16030 -15964 -15898 -15831 -15765 -15699 -15633 -15567 -15501 -15435 -15369 -15303) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU

Sollecitazioni: N=-4736.77 L=195.50

$\lambda_y=62.92$  Ncr,  $y=63658.20$   $\lambda_y^*=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr,  $z=63658.20$   $\lambda_z^*=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N, Ed=-4736.77 Nb, Rd=23442.70 N, Ed/Nb, Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,G}=0.02$  (L/8418)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.04$  (L/4545)

**Membratura**

Asta n. 4998 (-15303 -15237 -15170 -15094 -15036 -14970 -14904 -14838 -14772 -14706 -14640 -14572 -14502 -14436 -14370 -14304 -14238 -14172 -14106 -14038 -13971) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU

Sollecitazioni: N=-4756.08 L=195.50

$\lambda_y=62.92$  Ncr,  $y=63658.20$   $\lambda_y^*=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr,  $z=63658.20$   $\lambda_z^*=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N, Ed=-4756.08 Nb, Rd=23442.70 N, Ed/Nb, Rd=0.20



- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,g}=0.02$  (L/9131)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.04$  (L/4951)

**Membratura**

Asta n. 4998 (-13971 -13901 -13833 -13767 -13701 -13635 -13569 -13503 -13433 -13361 -13294 -13225 -13158 -13089 -13017 -12934 -12856 -12786 -12716 -12645 -12571) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU  
Sollecitazioni: N=-4437.61 L=195.50  
 $\lambda_y=62.92$  Ncr, y=63658.20  $\lambda_y^*=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$  Ncr, z=63658.20  $\lambda_z^*=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{,min}=0.86$  N,Ed=-4437.61 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.19

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.02$  (L/8779)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.04$  (L/4745)

**Membratura**

Asta n. 4998 (-12571 -12488 -12407 -12341 -12273 -12201 -12181 -12049 -11930 -11848 -11785 -11719 -11648 -11581 -11511 -11441 -11371 -11305 -11233 -11167 -11101) Tubo 80x80x4 mm - S235 Crit. 2

-----  
- Verifica di stabilità (4.2.4.1.3.1) - CC 54 SLU  
Sollecitazioni: N=-3080.10 L=195.50  
 $\lambda_y=62.92$  Ncr, y=63658.20  $\lambda_y^*=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$  Ncr, z=63658.20  $\lambda_z^*=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{,min}=0.86$  N,Ed=-3080.10 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.13

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/6688)  $f_{z,g}=0.02$  (L/10485)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.05$  (L/3612)  $f_{z,g}=0.03$  (L/5702)

**Membratura**

Asta n. 4998 (-11101 -11031 -10958 -10897 -10851 -10751 -10665 -10624 -10465 -10396 3503) Tubo 80x80x4 mm - S235 Crit. 2

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- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/2847)  $f_{z,g}=0.00$  (L/27701)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.06$  (L/1533)  $f_{z,g}=0.01$  (L/16014)

**Membratura**

Asta n. 4999 (3502 -10376 -10426 -10506 -10541 -10707 -10792 -10844 -10934 -10999 -11077 -11142 -11208 -11274 -11346 -11412 -11482 -11552 -11622 -11694 -11760) Tubo 80x80x4 mm - S235 Crit. 2

-----  
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/5055)  $f_{z,g}=0.01$  (L/26796)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.07$  (L/2747)  $f_{z,g}=0.01$  (L/14908)

**Membratura**

Asta n. 4999 (-11760 -11826 -11898 -11940 -12053 -12163 -12242 -12314 -12382 -12448 -12534 -12612 -12686 -12757 -12827 -12897 -12964 -13058 -13120 -13200 -13266) Tubo 80x80x4 mm - S235 Crit. 2

-----  
- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU  
Sollecitazioni: N=-3781.27 L=195.50  
 $\lambda_y=62.92$  Ncr, y=63658.30  $\lambda_y^*=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$  Ncr, z=63658.30  $\lambda_z^*=0.67$

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Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{,min}=0.86$  N,Ed=-3781.27 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.16

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.05$  (L/4222)  $f_{z,G}=0.02$  (L/9403)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.09$  (L/2284)  $f_{z,G}=0.04$  (L/5099)

**Membratura**

Asta n. 4999 (-13266 -13335 -13402 -13474 -13544 -13610 -13676 -13742 -13808 -13874 -13942 -14012 -14081 -14147 -14213 -14279 -14345 -14411 -14477 -14543 -14613) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU

Sollecitazioni: N=-4623.38 L=195.50

$\lambda_y=62.92$  Ncr, $y=63658.30$   $\lambda^*_y=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr, $z=63658.20$   $\lambda^*_z=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N,Ed=-4623.38 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.04$  (L/4874)  $f_{z,G}=0.02$  (L/8384)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.07$  (L/2638)  $f_{z,G}=0.04$  (L/4540)

**Membratura**

Asta n. 4999 (-14613 -14681 -14747 -14813 -14879 -14945 -15011 -15077 -15147 -15211 -15278 -15344 -15410 -15476 -15542 -15608 -15674 -15740 -15806 -15872 -15939) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU

Sollecitazioni: N=-4681.94 L=195.50

$\lambda_y=62.92$  Ncr, $y=63658.30$   $\lambda^*_y=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr, $z=63658.30$   $\lambda^*_z=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N,Ed=-4681.94 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/6623)  $f_{z,G}=0.02$  (L/9131)

- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.05$  (L/3577)  $f_{z,G}=0.04$  (L/4939)

**Membratura**

Asta n. 4999 (-15939 -16005 -16071 -16137 -16203 -16269 -16335 -16401 -16467 -16533 -16599) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 38

$f_{z,L}=0.01$  (L/15890)  $f_{z,G}=0.00$  (L/89127)

- Verifica Freccia massima carichi totali - CC 56  
 $f_{z,L}=0.01$  (L/9275)  $f_{z,G}=0.01$  (L/12423)

**Membratura**

Asta n. 4999 (-16599 -16566 -16500 -16434 -16368 -16302 -16236 -16170 -16104 -16038 -15972 -15906 -15839 -15773 -15707 -15641 -15575 -15509 -15443 -15377 -15311) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU

Sollecitazioni: N=-4655.88 L=195.50

$\lambda_y=62.92$  Ncr, $y=63658.20$   $\lambda^*_y=0.67$

Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$

$\lambda_z=62.92$  Ncr, $z=63658.20$   $\lambda^*_z=0.67$

Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$

$\chi_{,min}=0.86$  N,Ed=-4655.88 Nb,Rd=23442.70 N,Ed/Nb,Rd=0.20

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,G}=0.02$  (L/8418)

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- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.04$  (L/4545)

**Membratura**

Asta n. 4999 (-15311 -15245 -15178 -15113 -15044 -14978 -14912 -14846 -14780 -14714 -14648 -14580 -14510 -14444 -14378 -14312 -14246 -14180 -14114 -14069 -13979) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU  
Sollecitazioni:  $N=-4682.26$   $L=195.50$   
 $\lambda_y=62.92$   $N_{cr,y}=63658.20$   $\lambda^*_y=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$   $N_{cr,z}=63658.20$   $\lambda^*_z=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{r,min}=0.86$   $N_{Ed}=-4682.26$   $N_{b,Rd}=23442.70$   $N_{Ed}/N_{b,Rd}=0.20$
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,g}=0.02$  (L/9131)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.04$  (L/4951)

**Membratura**

Asta n. 4999 (-13979 -13909 -13841 -13775 -13709 -13643 -13577 -13511 -13441 -13369 -13302 -13233 -13164 -13095 -13025 -12942 -12864 -12794 -12724 -12653 -12579) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU  
Sollecitazioni:  $N=-4370.58$   $L=195.50$   
 $\lambda_y=62.92$   $N_{cr,y}=63658.20$   $\lambda^*_y=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$   $N_{cr,z}=63658.20$   $\lambda^*_z=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{r,min}=0.86$   $N_{Ed}=-4370.58$   $N_{b,Rd}=23442.70$   $N_{Ed}/N_{b,Rd}=0.19$
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,g}=0.02$  (L/8779)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,g}=0.04$  (L/4750)

**Membratura**

Asta n. 4999 (-12579 -12524 -12415 -12349 -12281 -12209 -12182 -12058 -11933 -11855 -11793 -11727 -11656 -11589 -11519 -11449 -11379 -11313 -11241 -11175 -11109) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica di stabilità (4.2.4.1.3.1) - CC 75 SLU  
Sollecitazioni:  $N=-3037.71$   $L=195.50$   
 $\lambda_y=62.92$   $N_{cr,y}=63658.20$   $\lambda^*_y=0.67$   
Curva a:  $\Phi_y=0.77$   $\chi_y=0.86$   
 $\lambda_z=62.92$   $N_{cr,z}=63658.20$   $\lambda^*_z=0.67$   
Curva a:  $\Phi_z=0.77$   $\chi_z=0.86$   
 $\chi_{r,min}=0.86$   $N_{Ed}=-3037.71$   $N_{b,Rd}=23442.70$   $N_{Ed}/N_{b,Rd}=0.13$
- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/6721)  $f_{z,g}=0.02$  (L/10458)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.05$  (L/3631)  $f_{z,g}=0.03$  (L/5686)

**Membratura**

Asta n. 4999 (-11109 -11054 -10966 -10890 -10825 -10759 -10671 -10576 -10473 -10404 3504) Tubo 80x80x4 mm - S235 Crit. 2

- Verifica Freccia massima per soli carichi accidentali - CC 26  
 $f_{z,L}=0.03$  (L/2851)  $f_{z,g}=0.00$  (L/27701)
- Verifica Freccia massima carichi totali - CC 26  
 $f_{z,L}=0.06$  (L/1533)  $f_{z,g}=0.01$  (L/16014)

**Membratura**

Asta n. 5466 (-2998 -4785 -6208 -7724 -8510 -9386) Tubo 80x120x5 mm - S355 Crit. 3

- Verifica Freccia massima per soli carichi accidentali - CC 69

$f_{z,L}=0.07$  (L/751)  $f_{z,G}=0.00$  (L/35331)

- Verifica Freccia massima carichi totali - CC 50  
 $f_{z,L}=0.08$  (L/733)  $f_{z,G}=0.01$  (L/6624)

**Membratura**

Asta n. 5505 (-3071 -5810 -8968 -15278) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 69  
 $f_{z,L}=0.20$  (L/355)  $f_{z,G}=0.00$  (L/45097)
- Verifica Freccia massima carichi totali - CC 69  
 $f_{z,L}=0.14$  (L/516)  $f_{z,G}=0.00$  (L/59246)

**Membratura**

Asta n. 5511 (-3095 -6034 -9167 -15939) Tubo 80x120x5 mm - S355 Crit. 3  
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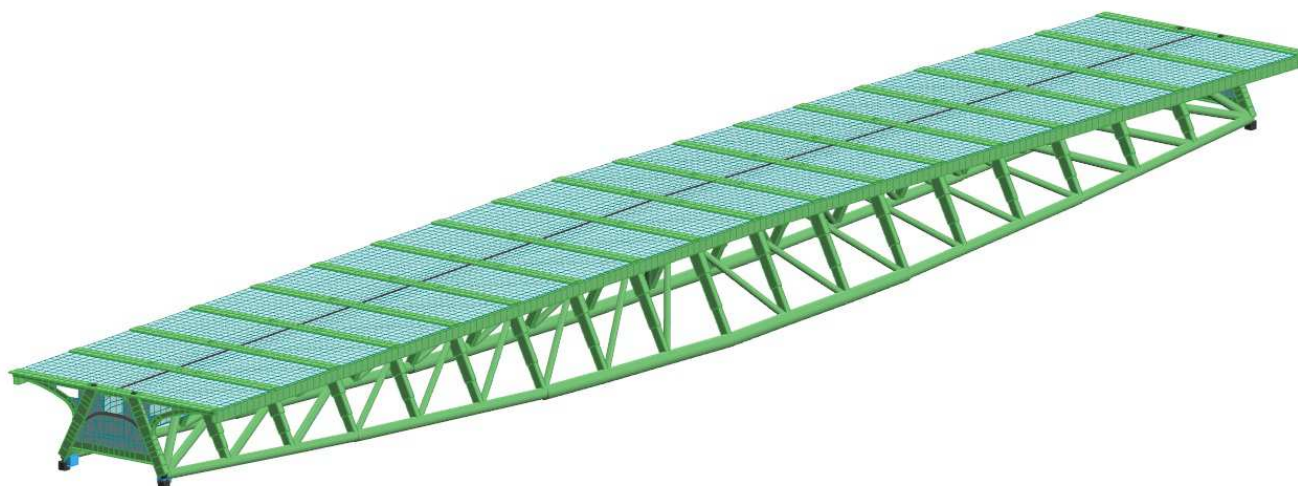
- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.22$  (L/340)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.15$  (L/492)  $f_{z,G}=0.00$  (L/27257)

**Membratura**

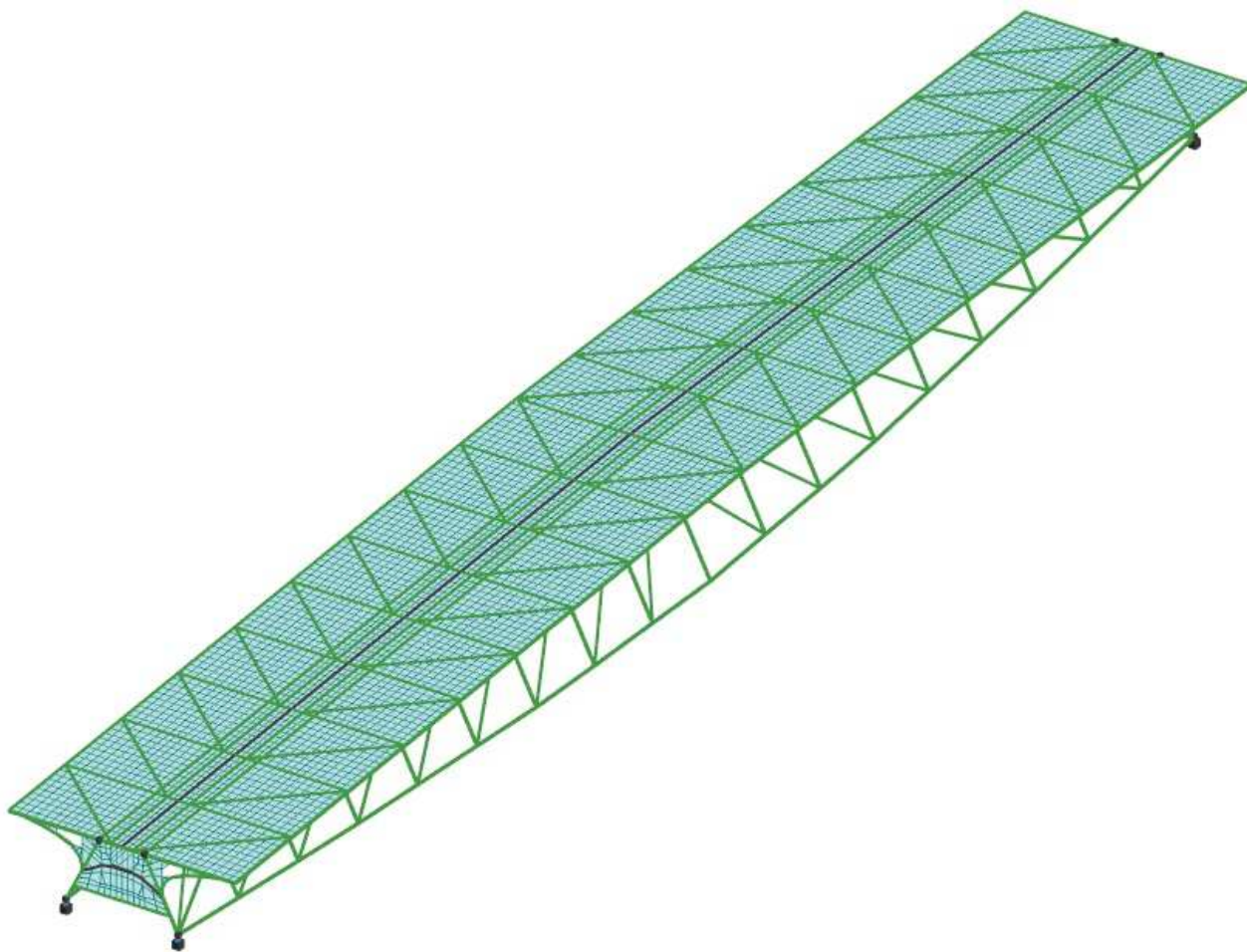
Asta n. 5517 (-3104 -6010 -9432 -16599) Tubo 80x120x5 mm - S355 Crit. 3  
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- Verifica Freccia massima per soli carichi accidentali - CC 70  
 $f_{z,L}=0.21$  (L/350)  $f_{z,G}=0.00$  (L/42413)
- Verifica Freccia massima carichi totali - CC 70  
 $f_{z,L}=0.15$  (L/506)  $f_{z,G}=0.01$  (L/8967)

**DIAGRAMMI ESPLICATIVI DEL MODELLO F.E.M.**  
*(struttura in acciaio)*



*Vista del modello assonometrico – Vista tridimensionale*



Vista del modello assonometrico – Vista assonometrica unifilare

## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità inf. - Posiz. appoggio pila sud)

### Dati geometrici e caratteristiche d'inerzia della sezione

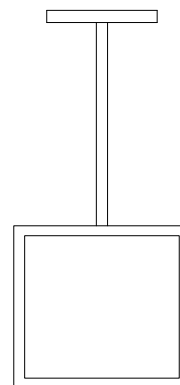
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	291.0
Lato minore sezione: b (mm) =	80	x (mm) =	138.8
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	165		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	38.5
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	38.5
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	3 267.1
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	205.2
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	214.7
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.3
Area a taglio: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	30.2



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	64	1 385	635
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	358	21	220
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	904	441	0
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	8 680	7 279	2 647
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	5 623	>	64
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 344	>	358
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	58 216	>	904
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	58 216	>	8 680
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	100 833	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
38.5	0.0
38.5	0.0
n =	0.033

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	5 623	<b>5 623</b>	>	64
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 344	<b>1 344</b>	>	358.3
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.2781</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	81.5	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	30.1	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	53.4	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	90.4	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	25.2	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	96.7	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	96.6	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	9.2	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	56.0	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 46

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [ 1 + \alpha (\lambda^* - 0.2) + \lambda^{*2} ]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [ \Phi + (\Phi^2 - \lambda^{*2})^{0.5} ] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	92	9.21	10.0	200	8 000 410	0.115	a	0.21
z-z	2.0	92	2.31	39.8	200	502 503	0.459	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.498	1.000	<b>100 833</b>	>	8 385	320 016
0.633	0.937	<b>94 434</b>	>	8 385	20 100



**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flesso-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	64	358.3
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	8 000 410	0.937	43	56	64	56	0.0	0.035	0.010
z-z	502 503	\	238.9	310.5	358.3	310.5	0.0	\	0.233

Verifica di stabilità [C4.2.32]:  $N+My+Mz = 0.278 < 1.00$



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità sup. - Posiz. appoggio pila sud)

### Dati geometrici e caratteristiche d'inerzia della sezione

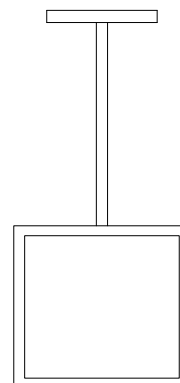
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	416.0
Lato minore sezione: b (mm) =	80	x (mm) =	197.3
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	290		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	51.0
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	51.0
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	8 714.8
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	206.3
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	398.5
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.6
Area a taglio.: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	40.0



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	6	505	198
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	120	40	103
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	718	639	0
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	2 643	1 434	2 743
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	10 438	>	6
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 350	>	120
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	77 118	>	718
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	77 118	>	2 643
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	133 571	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
51.0	0.0
51.0	0.0
n = 0.025	

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	10 438	<b>10 438</b>	>	6
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 350	<b>1 350</b>	>	120.4
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.0897</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	30.0	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	6.9	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	13.7	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	36.9	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	3.7	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	29.8	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	43.3	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	7.2	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	26.3	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 42

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [ 1 + \alpha (\lambda^* - 0.2) + \lambda^{*2} ]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [ \Phi + (\Phi^2 - \lambda^{*2})^{0.5} ] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	84	13.07	6.4	200	25 598 650	0.074	a	0.21
z-z	2.0	84	2.01	41.8	200	605 835	0.481	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.490	1.000	<b>133 571</b>	>	8 385	1 023 946
0.645	0.930	<b>124 225</b>	>	8 385	24 233

**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	6	120.4
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	25 598 650	0.930	4	5	6	5	0.0	0.027	0.000
z-z	605 835	\	80.3	104.4	120.4	104.4	0.0	\	0.078
Verifica di stabilità [C4.2.32]: $N+My+Mz =$			0.105	<	1.00				



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità inf. - Posiz. appoggio pila sud)

### Dati geometrici e caratteristiche d'inerzia della sezione

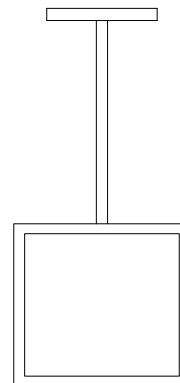
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	291.0
Lato minore sezione: b (mm) =	80	x (mm) =	138.8
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	165		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	38.5
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	38.5
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	3 267.1
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	205.2
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	214.7
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.3
Area a taglio.: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	30.2



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	0	920	171
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	332	186	0
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	847	0	372
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	7 346	5 301	677
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	5 623	>	0
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 344	>	332
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	58 216	>	847
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	58 216	>	7 346
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	100 833	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
38.5	0.0
38.5	0.0
n =	0.033

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	5 623	<b>5 623</b>	>	0
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 344	<b>1 344</b>	>	332.2
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.2472</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	73.4	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	25.4	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	44.9	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	100.9	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	18.4	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	72.0	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	32.1	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	2.3	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	32.4	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 46

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [1 + \alpha (\lambda^* - 0.2) + \lambda^{*2}]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [\Phi + (\Phi^2 - \lambda^{*2})^{0.5}] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	92	9.21	10.0	200	8 000 410	0.115	a	0.21
z-z	2.0	92	2.31	39.8	200	502 503	0.459	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.498	1.000	<b>100 833</b>	>	8 385	320 016
0.633	0.937	<b>94 434</b>	>	8 385	20 100



**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	0	332.2
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

Nel seguito si fa riferimento alle seguenti grandezze:

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	8 000 410	0.937	0	0	0	0	0.0	0.035	0.000
z-z	502 503	\	221.5	287.9	332.2	287.9	0.0	\	0.216

Verifica di stabilità [C4.2.32]:  $N+My+Mz = 0.251 < 1.00$



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità sup. - Posiz. appoggio pila sud)

### Dati geometrici e caratteristiche d'inerzia della sezione

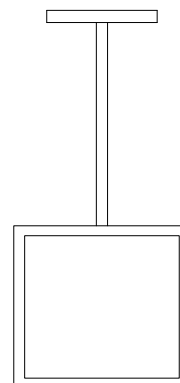
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	416.0
Lato minore sezione: b (mm) =	80	x (mm) =	197.3
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	290		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	51.0
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	51.0
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	8 714.8
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	206.3
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	398.5
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.6
Area a taglio.: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	40.0



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	0	385	78
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	110	89	28
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	696	0	313
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	2 074	162	1 475
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	10 438	>	0
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 350	>	110
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	77 118	>	696
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	77 118	>	2 074
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	133 571	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
51.0	0.0
51.0	0.0
n = 0.025	

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	10 438	<b>10 438</b>	>	0
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 350	<b>1 350</b>	>	110.3
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.0817</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	27.9	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	5.4	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	11.4	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	43.3	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	0.4	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	26.1	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	25.7	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	3.9	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	21.3	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 42

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [1 + \alpha (\lambda^* - 0.2) + \lambda^{*2}]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [\Phi + (\Phi^2 - \lambda^{*2})^{0.5}] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	84	13.07	6.4	200	25 598 650	0.074	a	0.21
z-z	2.0	84	2.01	41.8	200	605 835	0.481	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.490	1.000	<b>133 571</b>	>	8 385	1 023 946
0.645	0.930	<b>124 225</b>	>	8 385	24 233

**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	0	110.3
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	25 598 650	0.930	0	0	0	0	0.0	0.027	0.000
z-z	605 835	\	73.5	95.6	110.3	95.6	0.0	\	0.071

Verifica di stabilità [C4.2.32]:  $N+My+Mz =$  0.098 < 1.00



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità inf. - Posiz. appoggio pila nord)

### Dati geometrici e caratteristiche d'inerzia della sezione

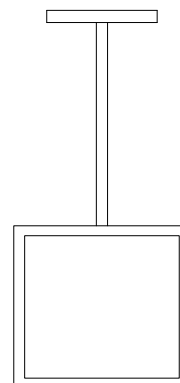
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	291.0
Lato minore sezione: b (mm) =	80	x (mm) =	138.8
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	165		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	38.5
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	38.5
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	3 267.1
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	205.2
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	214.7
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.3
Area a taglio: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	30.2



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	54	1 479	692
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	201	80	0
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	649	0	253
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	8 969	7 740	2 934
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	5 623	>	54
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 344	>	201
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	58 216	>	649
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	58 216	>	8 969
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	100 833	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
38.5	0.0
38.5	0.0
n =	0.033

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	5 623	<b>5 623</b>	>	54
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 344	<b>1 344</b>	>	201.4
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.1595</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	50.4	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	31.1	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	54.9	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	106.3	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	26.8	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	101.9	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	56.4	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	10.2	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	59.1	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 46

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [ 1 + \alpha (\lambda^* - 0.2) + \lambda^{*2} ]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [ \Phi + (\Phi^2 - \lambda^{*2})^{0.5} ] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	92	9.21	10.0	200	8 000 410	0.115	a	0.21
z-z	2.0	92	2.31	39.8	200	502 503	0.459	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.498	1.000	<b>100 833</b>	>	8 385	320 016
0.633	0.937	<b>94 434</b>	>	8 385	20 100



**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	54	201.4
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{yeq,Ed}$ ,  $M_{zeq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	8 000 410	0.937	36	47	54	47	0.0	0.035	0.008
z-z	502 503	\	134.3	174.5	201.4	174.5	0.0	\	0.131

Verifica di stabilità [C4.2.32]:  $N+My+Mz = 0.174 < 1.00$



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità sup. - Posiz. appoggio pila nord)

### Dati geometrici e caratteristiche d'inerzia della sezione

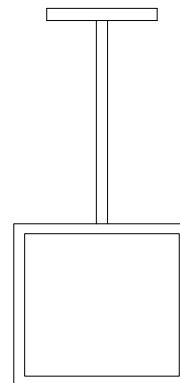
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	416.0
Lato minore sezione: b (mm) =	80	x (mm) =	197.3
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	290		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	51.0
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	51.0
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	8 714.8
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	206.3
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	398.5
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.6
Area a taglio.: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	40.0



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	0	515	196
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	55	21	0
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	597	0	244
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	2 671	1 657	2 980
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

**Verif. di resistenza [4.2.4.1.2]**

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	10 438	>	0
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 350	>	55
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	77 118	>	597
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	77 118	>	2 671
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	133 571	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
51.0	0.0
51.0	0.0
n = 0.025	

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	10 438	<b>10 438</b>	>	0
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 350	<b>1 350</b>	>	55.1
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.0408</b>	<	1.00

**Verifiche tensionali**

Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	17.2	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	7.0	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	13.7	<	261.9

Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	33.5	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	4.3	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	30.3	<	261.9

Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	23.2	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	7.8	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	26.8	<	261.9

**Verifiche di stabilità a compressione [4.2.4.1.3.1]**

Lungh. di calcolo del profilo: L (cm) = 42

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [ 1 + \alpha (\lambda^* - 0.2) + \lambda^{*2} ]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [ \Phi + (\Phi^2 - \lambda^{*2})^{0.5} ] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	84	13.07	6.4	200	25 598 650	0.074	a	0.21
z-z	2.0	84	2.01	41.8	200	605 835	0.481	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.490	1.000	<b>133 571</b>	>	8 385	1 023 946
0.645	0.930	<b>124 225</b>	>	8 385	24 233

**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	0	55.1
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	25 598 650	0.930	0	0	0	0	0.0	0.027	0.000
z-z	605 835	\	36.7	47.8	55.1	47.8	0.0	\	0.036
Verifica di stabilità [C4.2.32]: $N+My+Mz =$			0.062	<	1.00				



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità inf. - Posiz. appoggio pila nord)

### Dati geometrici e caratteristiche d'inerzia della sezione

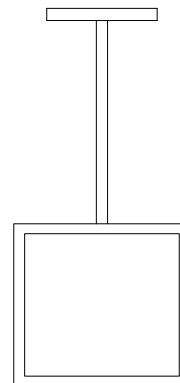
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	291.0
Lato minore sezione: b (mm) =	80	x (mm) =	138.8
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	165		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	38.5
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	38.5
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	3 267.1
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	205.2
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	214.7
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.3
Area a taglio: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	30.2



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	0	817	46
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	191	0	79
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	617	247	0
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	7 482	4 667	0
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

### Verif. di resistenza [4.2.4.1.2]

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	5 623	>	0
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 344	>	191
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	58 216	>	617
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	58 216	>	7 482
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	100 833	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
38.5	0.0
38.5	0.0
n =	0.033

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	5 623	<b>5 623</b>	>	0
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 344	<b>1 344</b>	>	191.4
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.1424</b>	<	1.00

### Verifiche tensionali

#### Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	45.9	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	25.9	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	45.7	<	261.9

#### Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	59.8	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	16.2	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	66.1	<	261.9

#### Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	41.7	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	0.0	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	26.3	<	261.9

### Verifiche di stabilità a compressione [4.2.4.1.3.1]

Lungh. di calcolo del profilo: L (cm) = 46

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [1 + \alpha (\lambda^* - 0.2) + \lambda^{*2}]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [\Phi + (\Phi^2 - \lambda^{*2})^{0.5}] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	92	9.21	10.0	200	8 000 410	0.115	a	0.21
z-z	2.0	92	2.31	39.8	200	502 503	0.459	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.498	1.000	<b>100 833</b>	>	8 385	320 016
0.633	0.937	<b>94 434</b>	>	8 385	20 100



**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flesso-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	0	191.4
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	8 000 410	0.937	0	0	0	0	0.0	0.035	0.000
z-z	502 503	\	127.6	165.9	191.4	165.9	0.0	\	0.124

Verifica di stabilità [C4.2.32]:  $N+My+Mz =$  0.159 < 1.00



## Verifica profili dei cavalletti in acciaio

(NTC - p.to 4.2.4.1.2-3)

Puntelli diagonali dei cavalletti di sostegno dell'impalcato (estremità sup. - Posiz. appoggio pila nord)

### Dati geometrici e caratteristiche d'inerzia della sezione

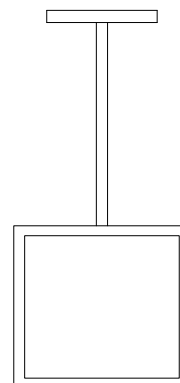
Profilo della sezione: **Tubo 120x80x5 + piatto 10 mm nervato**

Lato maggiore sezione: h (mm) =	120	H (mm) =	416.0
Lato minore sezione: b (mm) =	80	x (mm) =	197.3
Spessore del tubo: $t_w = a$ (mm) =	5		
Rapporto: c/t =	22.0		
Lunghezza ala di rinforzo: L (mm) =	290		
Spessore ala di rinforzo: t (mm) =	10		
Larghezza nervatura: b' (mm) =	50		
Spessore nervatura: t' (mm) =	6		

Area della sezione del profilo: A (cm <sup>2</sup> ) =	51.0
Area resistente netta: A <sub>net</sub> (cm <sup>2</sup> ) =	51.0
Momento d'inerzia max.: J <sub>y</sub> (cm <sup>4</sup> ) =	8 714.8
Momento d'inerzia min.: J <sub>z</sub> (cm <sup>4</sup> ) =	206.3
Modulo di resistenza max.: W <sub>y</sub> (cm <sup>3</sup> ) =	398.5
Modulo di resistenza min.: W <sub>z</sub> (cm <sup>3</sup> ) =	51.6
Area a taglio.: A <sub>t</sub> (cm <sup>2</sup> ) =	10.4

### Geometria profili

Luce dei profili: L (cm) =	42
Peso del profilo: p <sub>prof</sub> (kg/m) =	40.0



### Materiali della sezione

Classe dell'acciaio:	<b>S 275 J0</b>	Coeff. sicur. resistenza: $\gamma_{M0}$ =	1.05
Tensione di rottura: f <sub>tk</sub> (N/mm <sup>2</sup> ) =	430	Coeff. sicur. instabilità: $\gamma_{M1}$ =	1.05
Tensione di snervam.: f <sub>yk</sub> (N/mm <sup>2</sup> ) =	275	Coeff. sicur. frattura: $\gamma_{M2}$ =	1.25
Parametro di classificaz.: $\epsilon$ =	0.924		
Classe della sezione:	<b>1</b>		
Coeff. di adattam. plastico sezione: $\psi$ =	1.000		
Modulo elastico acciaio: E <sub>s</sub> (N/mm <sup>2</sup> ) =	210 000		
Coefficiente di Poisson: $\nu$ =	0.3		

### Sollecitazioni (da analisi F.E.M.)

	SLU (1)	SLV (1)	SLV (2)
Momento sollecit. asse y: M <sub>y,Ed</sub> (kgm) =	0	363	59
Momento sollecit. asse z: M <sub>z,Ed</sub> (kgm) =	39	0	18
Taglio sollecitante asse y: V <sub>y,Ed</sub> (kg) =	522	209	0
Taglio sollecitante asse z: V <sub>z,Ed</sub> (kg) =	2 049	0	1 113
Sforzo normale: N <sub>Ed</sub> (kg) =	-3 320	-8 385	9 311
Torsione: T <sub>Ed</sub> (kgm) =	0.0	0.0	0.0

Sollecitaz. prevalente: **N**

Coeff. incremento permanenti: $\gamma_p$ =	1.30
Coeff. incremento variabili: $\gamma_q$ =	1.50

**Verif. di resistenza [4.2.4.1.2]**

	SLU		
Momento resist. asse y: $M_{y,c,Rd}$ (kgm) =	10 438	>	0
Momento resist. asse z: $M_{z,c,Rd}$ (kgm) =	1 350	>	39
Taglio sollecitante asse y: $V_{y,Rd}$ (kg) =	77 118	>	522
Taglio sollecitante asse z: $V_{z,Rd}$ (kg) =	77 118	>	2 049
Sforzo normale resistente: $N_{pl,Rd}$ (kg) =	133 571	>	3 320

$A_v$ (cm <sup>2</sup> )	$\rho$
51.0	0.0
51.0	0.0
n = 0.025	

	M+V	M+V+N		
Momento ridotto asse y: $M_{y,V,Rd}$ (kgm) =	10 438	<b>10 438</b>	>	0
Momento ridotto asse z: $M_{z,V,Rd}$ (kgm) =	1 350	<b>1 350</b>	>	38.7
[4.2.39-4.2.40]: $M_y + M_z + N + V =$		<b>0.0286</b>	<	1.00

**Verifiche tensionali**

Caso 1 SLU (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	14.0	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	5.4	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	11.3	<	261.9

Caso 2 SLV (1)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	25.6	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	0.0	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	25.6	<	261.9

Caso 3 SLV (2)

$\sigma_{s,N+M}$ (N/mm <sup>2</sup> ) =	23.3	<	261.9
$\tau_{s,Vz}$ (N/mm <sup>2</sup> ) =	2.9	<	151.2
$\sigma_{id,V+M+N}$ (N/mm <sup>2</sup> ) =	20.4	<	261.9

**Verifiche di stabilità a compressione [4.2.4.1.3.1]**

Lungh. di calcolo del profilo: L (cm) = 42

Nel seguito si fa riferimento alle seguenti grandezze:

Coefficiente di vincolo di estremità:  $\beta$

Lunghezza di calcolo del profilo:  $L_0$

Raggi d'inerzia (assi y e z):  $i_y, i_z$

Snellezze (assi y e z):  $\lambda_y, \lambda_z$

Carico critico euleriano (assi y e z):  $N_{cr,y}, N_{cr,z}$

Snellezze adimensionali (assi y e z):  $\lambda^*_y, \lambda^*_z$

Fattori di imperfezione (Tab. 4.2.VI):  $\alpha_y, \alpha_z$

Fattore [4.2.45]:  $\Phi = 0.5 [ 1 + \alpha (\lambda^* - 0.2) + \lambda^{*2} ]$

Coefficiente di riduzione [4.2.45]:  $\chi = 1 / [ \Phi + (\Phi^2 - \lambda^{*2})^{0.5} ] < 1.0$

Resistenza all'instabilità dell'asta compressa:  $N_{b,Rd}$

Rapporto lati: h/b = 1.00 (Tab. 4.2.VI)

Asse	$\beta$	$L_0$ (cm)	i (cm)	$\lambda$	$\lambda_{lim}$	$N_{cr}$ (kg)	$\lambda^*$	Curva	$\alpha$
y-y	2.0	84	13.07	6.4	200	25 598 650	0.074	a	0.21
z-z	2.0	84	2.01	41.8	200	605 835	0.481	a	0.21

$\Phi$	$\chi$	$N_{b,Rd}$ (kg)		$N_{Ed}$ (kg)	0.04 $N_{cr}$ (kg)
0.490	1.000	<b>133 571</b>	>	8 385	1 023 946
0.645	0.930	<b>124 225</b>	>	8 385	24 233

**Verifiche di stabilità a tenso-pressoflessione [4.2.4.1.3.3]**

**- Metodo "A"**

Momento variabile linearmente lungo l'asta (asse di flessione y-y): no  
 Momento variabile linearmente lungo l'asta (asse di flessione z-z): no  
 Verifica di instabilità flessio-torsionale: si

	y-y	z-z
Momento massimo: $M_{max,Ed}$ (kgm) =	0	38.7
Momento all'estremità A: $M_A$ (kgm) =	0.0	0.0
Momento all'estremità B: $M_B$ (kgm) =	0.0	0.0
Sforzo normale nell'asta: N (kg) =	-3 320	

*Nel seguito si fa riferimento alle seguenti grandezze:*

Carico critico euleriano (assi y e z):  $N_{cr,y}$ ,  $N_{cr,z}$

Coefficiente di riduzione minimo (assi y e z):  $\chi_{min}$

Coefficiente di riduzione [4.2.51]:  $\chi_{LT} = (1/f) [1 / (\Phi_{LT} + (\Phi_{LT}^2 - \lambda_{LT}^{*2})^{0.5})] < 1.0$

Momento equivalente da considerare nella verifica (assi y e z) [C4.2.4.1.3.3.1]:  $M_{y,eq,Ed}$ ,  $M_{z,eq,Ed}$

Asse	$N_{cr}$ (kg)	$\chi_{min}$	$M_{m,Ed}$	$1.3 M_{m,Ed}$	$M_{max}$	$M_{eq,Ed}$	$M_{eq,Ed,lin}$	N	My-Mz
y-y	25 598 650	0.930	0	0	0	0	0.0	0.027	0.000
z-z	605 835	\	25.8	33.5	38.7	33.5	0.0	\	0.025

Verifica di stabilità [C4.2.32]:  $N+My+Mz = 0.052 < 1.00$



## APPOGGI TRAVI DI IMPALCATO

## Campata centrale - pila sud

### Appoggio su struttura in c.a. - Verifica SLU a presso-flessione

#### Caratteristiche dei materiali

##### - Calcestruzzo

Classe calcestruzzo della struttura di base: $R_{ck}$ (N/mm <sup>2</sup> ) =	29.3	Carota	C4
Resistenza cilindrica caratteristica del materiale base: $f_{ck}$ (N/mm <sup>2</sup> ) =	24.3		
Resistenza a taglio caratteristica del materiale base: $f_{ctk}$ (N/mm <sup>2</sup> ) =	1.76		
Coefficiente di sicurezza parziale del materiale: $\gamma_c$ =	1.50		
Fattore di confidenza: FC =	1.20		
Resist. a compressione di progetto del materiale base: $f_{cd}$ (N/mm <sup>2</sup> ) =	11.48		
Resistenza a taglio di progetto del materiale base: $f_{ctd}$ (N/mm <sup>2</sup> ) =	0.98		

##### - Barre in acciaio

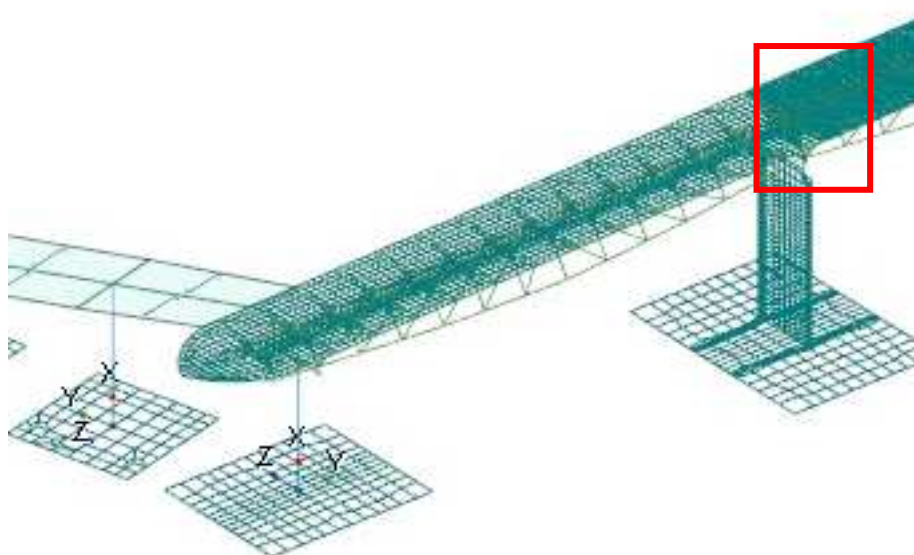
Acciaio a snervamento: $f_{yk}$ (MPa) =	460	Spezz.	2
Acciaio a rottura: $f_{tk}$ (MPa) =	681		

##### Si assumono i valori di un acciaio FeB44k

Resistenza a rottura caratteristica delle barre: $f_{tk}$ (N/mm <sup>2</sup> ) =	681	FeB44k
Resistenza a snervamento caratteristica delle barre: $f_{yk}$ (N/mm <sup>2</sup> ) =	460	
Coefficiente parziale di sicurezza del materiale: $\gamma_M$ =	1.15	
Fattore di confidenza: FC =	1.00	(struttura esistente con prova diretta su campione)
Resistenza a trazione di progetto delle barre di nodo: $f_{s,yd}$ (N/mm <sup>2</sup> ) =	400.0	

##### - Materiali dell'ancoraggio

	$f_{yk}$ (N/mm <sup>2</sup> ) =	640
Classe dell'acciaio:	$f_{yd}$ (N/mm <sup>2</sup> ) =	512
Tensione di rottura: $f_{tk}$ (N/mm <sup>2</sup> ) =	Coeff. sicur. parziale: $\gamma_s$ =	1.25
		800



Posizione dell'appoggio sulla struttura in c.a.

## Verifica a pressoflessione dell'appoggio

Definizione della sezione resistente e delle sollecitazioni.

**Titolo :** Pila sud - Appoggio

**N° Vertici**  **Zoom** **N° barre**  **Zoom**

N°	x [cm]	y [cm]	N°	As [cm²]	x [cm]	y [cm]
1	0	0	4	2.01	4	27.93
2	0	43.5	5	2.01	28	3.2
3	32	43.5	6	2.01	28	40.2
4	32	0	7	2.01	28	15.57
			8	2.01	28	27.93

**Sollecitazioni**  
 S.L.U.  Metodo n

**N<sub>Ed</sub>**   kN  
**M<sub>xEd</sub>**   kNm  
**M<sub>yEd</sub>**

**P.to applicazione N**  
 Centro  Baricentro cls  
 Coord.[cm] xN  yN

**Tipo rottura**  
 Lato calcestruzzo - Acciaio snervato

**Materiali**  
 cl. 8.8 Carota 4  
 $\epsilon_{su}$   ‰  $\epsilon_{c2}$   ‰  
 $f_{yd}$   N/mm<sup>2</sup>  $\epsilon_{cu}$   ‰  
 $E_s$   N/mm<sup>2</sup>  $f_{cd}$   ‰  
 $E_s/E_c$    $f_{cc}/f_{cd}$   ?  
 $\epsilon_{syd}$   ‰  $\sigma_{c,adm}$    
 $\sigma_{s,adm}$   N/mm<sup>2</sup>  $\tau_{co}$    
 $\tau_{c1}$

**M<sub>xRd</sub>**  kN m  
**M<sub>yRd</sub>**  kN m  
 $\sigma_c$   N/mm<sup>2</sup>  
 $\sigma_s$   N/mm<sup>2</sup>  
 $\epsilon_c$   ‰  
 $\epsilon_s$   ‰  
**d**  cm  
**x**  **x/d**   
 $\delta$

**Tipo Sezione**  
 Rettan.re  Trapezi  
 a T  Circolare  
 Rettangoli  Coord.

**Metodo di calcolo**  
 S.L.U.+  S.L.U.-  
 Metodo n

**Tipo flessione**  
 Retta  Deviata

**N° rett.**

**Calcola MRd** **Dominio Mx-My**

**angolo asse neutro  $\theta^\circ$**

Precompresso

Si considera l'altezza del tacco di riscontro (piano di trasferimento dell'azione sollecitante) dalla sezione di verifica del collegamento sul calcestruzzo di base.

Altezza del dispositivo di appoggio:  $h'$  (cm) =

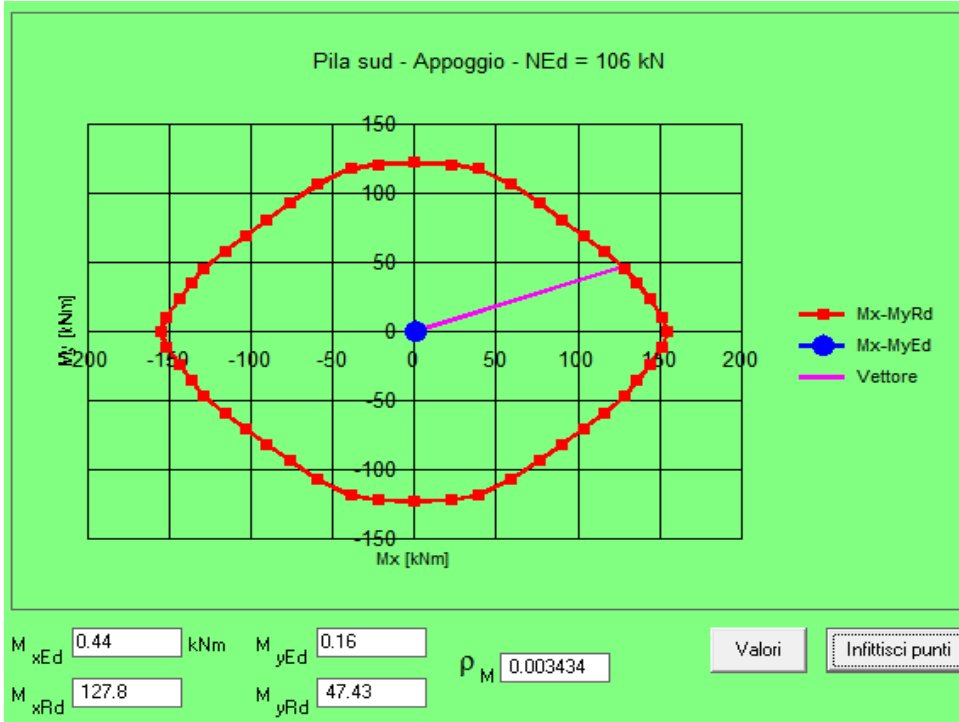
5.0



**Sollecitazioni e verifiche**

- SISMA direzione X

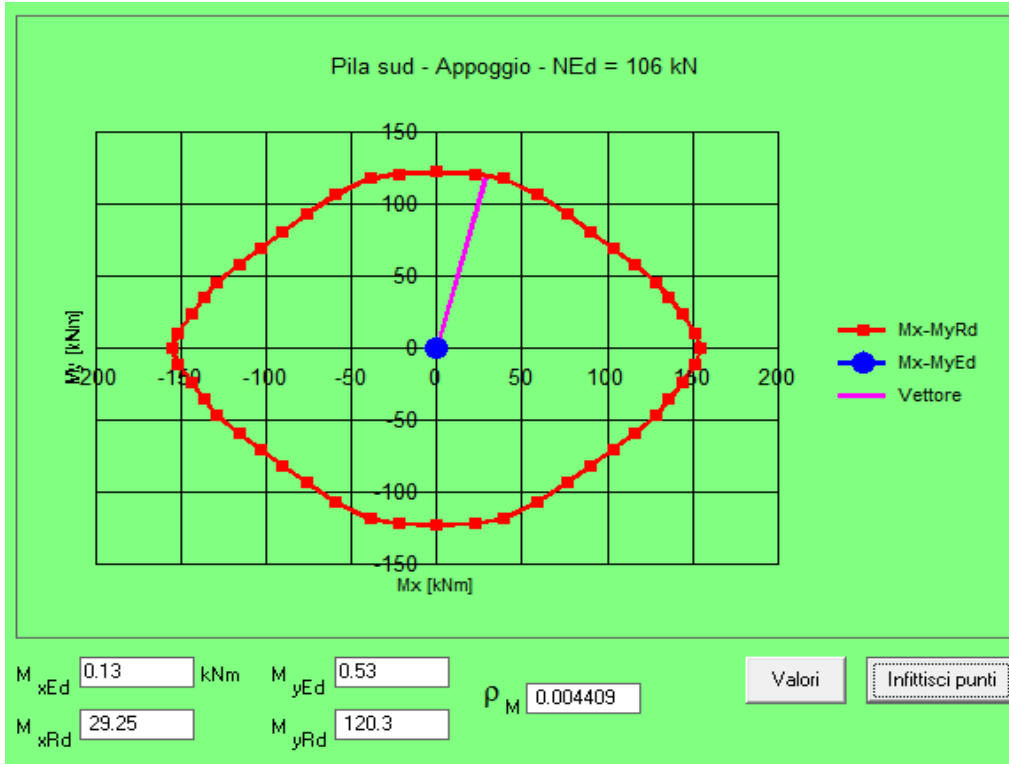
Momento sollecitante massimo asse Y:  $M_{Ed,y}$  (kNm) = 0.44  
 Momento sollecitante corrispondente asse X:  $M_{Ed,x}$  (kNm) = 0.16  
 Sforzo normale corrispondente:  $N_{Ed,1}$  (kN) = 106.0  
 Taglio sollecitante lungo asse X:  $V_{Ed,x}$  (kN) = 88.5  
 Taglio sollecitante lungo asse Y:  $V_{Ed,y}$  (kN) = 31.8



Rapporto di verifica a pressoflessione:  $\rho_M$  = 0.003

- SISMA direzione Y

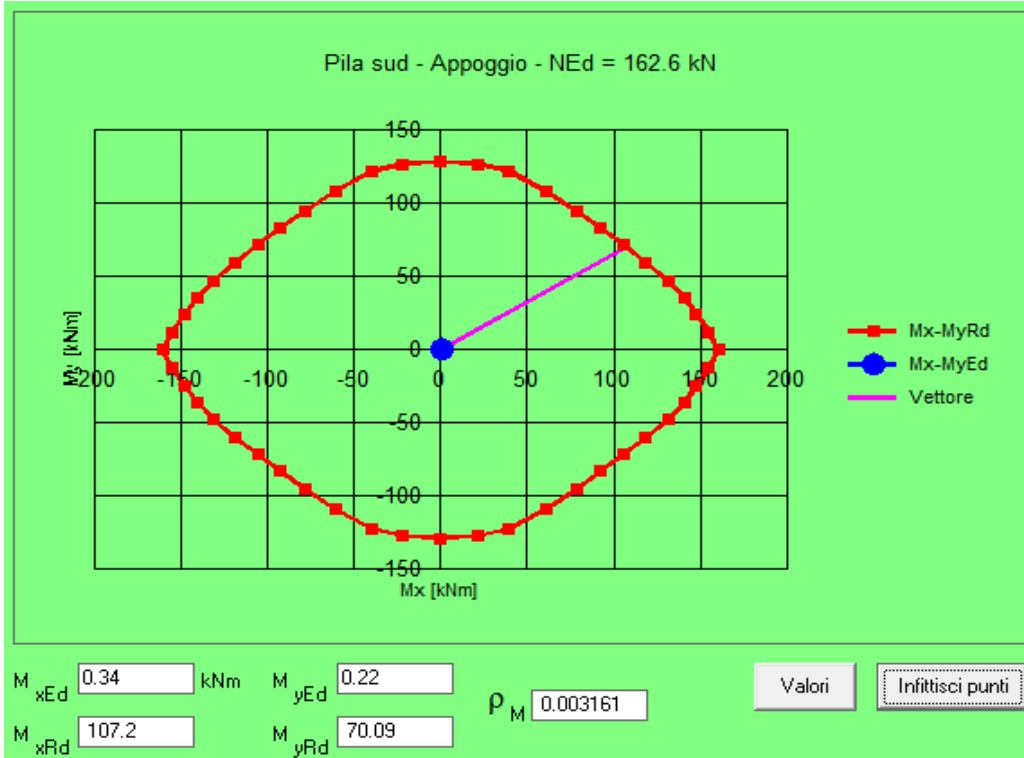
Momento sollecitante massimo asse Y:  $M_{Ed,y}$  (kNm) = 0.13  
 Momento sollecitante corrispondente asse X:  $M_{Ed,x}$  (kNm) = 0.53  
 Sforzo normale corrispondente:  $N_{Ed,1}$  (kN) = 106.0  
 Taglio sollecitante lungo asse X:  $V_{Ed,x}$  (kN) = 26.5  
 Taglio sollecitante lungo asse Y:  $V_{Ed,y}$  (kN) = 106.1



Rapporto di verifica a pressoflessione:  $\rho_M$  = 0.004

- STATICA + VENTO

Momento sollecitante massimo asse Y:  $M_{Ed,y}$  (kNm) = 0.22  
 Momento sollecitante corrispondente asse X:  $M_{Ed,x}$  (kNm) = 0.34  
 Sforzo normale corrispondente:  $N_{Ed,1}$  (kN) = 162.6  
 Taglio sollecitante lungo asse X:  $V_{Ed,x}$  (kN) = 43.2  
 Taglio sollecitante lungo asse Y:  $V_{Ed,y}$  (kN) = 68.1



Rapporto di verifica a pressoflessione:  $\rho_M$  = 0.003

Rapporto di verifica massimo:  $\rho_M$  = 0.004 < 1.00

## Verifica SLU a taglio (Vy-Vz)

### Campata centrale - pila sud

#### - Materiali del dispositivo di appoggio

Classe dell'acciaio:	S355J0
Tensione di rottura: $f_{tk}$ (N/mm <sup>2</sup> ) =	510
Tensione di snervamento: $f_{yk}$ (N/mm <sup>2</sup> ) =	355
Coefficiente di sicurezza parziale: $\gamma_s$ =	1.05
Resistenza di progetto: $f_{yd}$ (N/mm <sup>2</sup> ) =	338

#### - Piatti di contenimento dell'appoggio in neoprene

##### - Geometria del vassoio di contenimento del neoprene

Spessore del piatto di riscontro: t (mm) =	10
Altezza del piatto di riscontro: h (mm) =	35
Lunghezza del piatto di riscontro: l (mm) =	170
Num. di piatti di riscontro per ciascuna direz.: n =	2
Area resistente a taglio: $A_v$ (mm <sup>2</sup> ) =	3 400
Momento d'inerzia dei piatti: $J_s$ (mm <sup>4</sup> ) =	28 333
Modulo di resistenza dei piatti: $W_s$ (mm <sup>3</sup> ) =	56 667

##### - Sollecitazioni

Azione di taglio nei piatti di riscontro: $V_s$ (kN) =	138.1
Momento massimo nei piatti: M (kNm) =	4.8

##### - Verifica del vassoio di contenimento del neoprene

Tensione normale massima nei piatti: $\sigma_s$ (N/mm <sup>2</sup> ) =	85	<	338
Tensione tangenziale max. nei piatti: $\rho_s$ (N/mm <sup>2</sup> ) =	61	<	195

- Nervature verticali di raccordo sulle travi di impalcato

*- Geometria del piatto nervato verticale*

Num. di piatti di raccordo (pinne nervate): n =	2	
Altezza del piatto verticale: h (mm) =	200	
Spessore del piatto verticale: t (mm) =	20	
Larghezza del piatto verticale: b (mm) =	270	(base)
Spessore della nervatura: t' (mm) =	8	
Altezza della nervatura: h' (mm) =	200	
Larghezza di base della nervatura: b' (mm) =	80	
Numero di nervature di rinforzo: n' =	2	(per ciascuna pinna verticale)

Area totale della sezione composta: $A_s$ (mm <sup>2</sup> ) =	13 360
Area resistente a taglio: $A_v$ (mm <sup>2</sup> ) =	2 560
Posiz. asse neutro della sez. composta: x (mm) =	19.6
Momento d'inerzia del piatto nervato: $J_s$ (cm <sup>4</sup> ) =	689.9
Modulo di resist. del piatto nervato: $W_s$ (cm <sup>3</sup> ) =	85.8

*- Sollecitazioni*

Altezza di applicazione dell'azione orizz. H' (mm) =	133.3
Azione di taglio nei piatti di riscontro: $V_s$ (kN) =	138.1
Momento massimo nei piatti: M (kNm) =	18.4

*- Verifica del vassoio di contenimento del neoprene*

Tensione normale massima nei piatti: $\sigma_s$ (N/mm <sup>2</sup> ) =	215	<	338
Tensione tangenziale max. nei piatti: $\rho_s$ (N/mm <sup>2</sup> ) =	81	<	195

**Verifica ancoraggi sulla struttura in c.a.**

Trazione massima nei tirafondi: N (kN) =	-11.6 sisma
Taglio massimo nei tirafondi: V (kN) =	138.1 sisma

Trazione massima nei tirafondi: N (kN) =	0.0 statico
Taglio massimo nei tirafondi: V (kN) =	80.6 statico

*Le verifiche di resistenza dell'ancoraggio sono svolte nelle pagine seguenti.*

## VERIFICA DELL'ANCORAGGIO SULLA STRUTTURA IN C.A.

*Campata centrale - pila sud*

Riferimento del nodo: **Appoggio della trave di impalcato**

Si verifica l'ancoraggio della struttura di base. L'azione massima è trasferita al piatto di base dal tacco di riscontro a taglio interno al dispositivo di appoggio.

Tipo di ancorante		<b>HILTI HIT-HY 200A</b>
Diametro della barra	d	16 mm
Classe acciaio barra		Classe 8.8
Area della barra di ancoraggio	$A_b$	201.1 mm <sup>2</sup>
Numero di barre di ancoraggio	n.	8
Trazione di progetto - SLU	$N_{Sd}$	0.00 kN
Taglio di progetto - SLU	$V_{Sd}$	80.64 kN

Si considera un ancoraggio con barra inclinata di un angolo  $\beta$  rispetto alla normale alla superficie di ancoraggio (materiale base).

Angolo di infissione della barra di ancoraggio  $\beta$  0 °

Componente di trazione di progetto - SLU	$N'_{Sd}$	0.00 kN
Componente di taglio di progetto - SLU	$V'_{Sd}$	80.64 kN

### **Calcolo della trazione resistente**

Rottura di progetto lato calcestruzzo (classe C20/25)	$N_{0Rd,c}$	33.2 kN
Profondità nominale di ancoraggio	$h_{nom}$	120 mm
Profondità effettiva di ancoraggio	$h_{act}$	200 mm
Fattore di influenza della profondità	$f_T$	1.667
Resistenza cubica a comp. cls	$R_{ck}$	29.3 MPa
Fattore di confidenza	FC	1.20
Fattore classe di resistenza	$f_{b,N}$	0.99
Interasse di posa	s	118 mm
Interasse minimo di posa	$s_{min}$	80 mm
	$s / s_{min}$	1.48 > 1.0
Fattore interasse di posa	$f_{A,N}$	0.75
Distanza dal bordo	c	80 mm
Distanza minima di posa dai bordi	$c_{min}$	80 mm
	$c / c_{min}$	1.00 > 1.0
Fattore distanza dal bordo - sp	$f_{R,N}$	0.76
Cedimento cono cls	$N_{Rd,c}$	31.2 kN
<b>Resistenza a trazione (materiale base - resina)</b>	<b><math>N_{Rd}</math></b>	<b>31.2 kN</b>
<b>Resistenza a trazione (lato acciaio)</b>	<b><math>N_{Rd}</math></b>	<b>86.9 kN</b>

**Calcolo della resistenza a taglio**

Rottura di progetto lato calcestruzzo (classe C20/25)	$V_{Rd,c}$	36.7 kN
Fattore classe di resistenza	$f_{b,V}$	0.99
<b>Resistenza a taglio (materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>36.3 kN</b>
Resistenza a compressione caratt. materiale base	$f_{ck}$	24.30 N/mm <sup>2</sup>
Spessore della struttura di base	$t$	1000 mm
Diametro di rottura del cono della soletta	$d'$	26 mm
<b>Resistenza a taglio (rifollam. materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>52.7 kN</b>
<b>Resistenza a taglio (lato acciaio)</b>	<b><math>V_{Rd}</math></b>	<b>57.9 kN</b>

**Verifiche di resistenza**

Resistenza totale a trazione	$N_{Rd,tot}$	249.41 kN
Resistenza totale a taglio	$V_{Rd,tot}$	290.06 kN
<b>verifica di resistenza a trazione</b>		<b>0.00 &lt; 1.0</b>
<b>verifica di resistenza a taglio</b>		<b>0.28 &lt; 1.0</b>
Carico combinato sollecitante	$F_{Sd}$	80.64 kN
Inclinazione del carico combinato	$\alpha$	1.57 rad
Capacità di carico combinato	$F_{Rd}$	290.06 kN
<b>verifica di resistenza a taglio / trazione</b>		<b>0.28 &lt; 1.0</b>

## VERIFICA DELL'ANCORAGGIO SULLA STRUTTURA IN C.A.

*Campata centrale - pila sud*

Riferimento del nodo: **Appoggio della trave di impalcato (condiz. di sollevamento)**

Si verifica l'ancoraggio della struttura di base. L'azione massima è trasferita al piatto di base dal tacco di riscontro a taglio interno al dispositivo di appoggio.

Tipo di ancorante		<b>HILTI HIT-HY 200A</b>
Diametro della barra	d	16 mm
Classe acciaio barra		Classe 8.8
Area della barra di ancoraggio	$A_b$	201.1 mm <sup>2</sup>
Numero di barre di ancoraggio	n.	7
Trazione di progetto - SLU	$N_{Sd}$	11.59 kN
Taglio di progetto - SLU	$V_{Sd}$	138.10 kN

Si considera un ancoraggio con barra inclinata di un angolo  $\beta$  rispetto alla normale alla superficie di ancoraggio (materiale base).

Angolo di infissione della barra di ancoraggio  $\beta$  0 °

Componente di trazione di progetto - SLU	$N'_{Sd}$	11.59 kN
Componente di taglio di progetto - SLU	$V'_{Sd}$	138.10 kN

### **Calcolo della trazione resistente**

Rottura di progetto lato calcestruzzo (classe C20/25)	$N_{0Rd,c}$	33.2 kN
Profondità nominale di ancoraggio	$h_{nom}$	120 mm
Profondità effettiva di ancoraggio	$h_{act}$	200 mm
Fattore di influenza della profondità	$f_T$	1.667
Resistenza cubica a comp. cls	$R_{ck}$	29.28 MPa
Fattore di confidenza	FC	1.20
Fattore classe di resistenza	$f_{b,N}$	0.99
Interasse di posa	s	123 mm
Interasse minimo di posa	$s_{min}$	80 mm
	$s / s_{min}$	1.54 > 1.0
Fattore interasse di posa	$f_{A,N}$	0.76
Distanza dal bordo	c	110 mm
Distanza minima di posa dai bordi	$c_{min}$	80 mm
	$c / c_{min}$	1.38 > 1.0
Fattore distanza dal bordo - sp	$f_{R,N}$	0.94
Cedimento cono cls	$N_{Rd,c}$	39.1 kN
<b>Resistenza a trazione (materiale base - resina)</b>	<b><math>N_{Rd}</math></b>	<b>39.1 kN</b>
<b>Resistenza a trazione (lato acciaio)</b>	<b><math>N_{Rd}</math></b>	<b>86.9 kN</b>



**Calcolo della resistenza a taglio**

Rottura di progetto lato calcestruzzo (classe C20/25)	$V_{Rd,c}$	36.7 kN
Fattore classe di resistenza	$f_{b,V}$	0.99
<b>Resistenza a taglio (materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>36.3 kN</b>
Resistenza a compressione caratt. materiale base	$f_{ck}$	24.30 N/mm <sup>2</sup>
Spessore della struttura di base	$t$	1000 mm
Diametro di rottura del cono della soletta	$d'$	26 mm
<b>Resistenza a taglio (rifollam. materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>52.7 kN</b>
<b>Resistenza a taglio (lato acciaio)</b>	<b><math>V_{Rd}</math></b>	<b>57.9 kN</b>

**Verifiche di resistenza**

Resistenza totale a trazione	$N_{Rd,tot}$	273.69 kN
Resistenza totale a taglio	$V_{Rd,tot}$	253.80 kN
<b>verifica di resistenza a trazione</b>		<b>0.04 &lt; 1.0</b>
<b>verifica di resistenza a taglio</b>		<b>0.54 &lt; 1.0</b>
Carico combinato sollecitante	$F_{Sd}$	138.58 kN
Inclinazione del carico combinato	$\alpha$	1.49 rad
Capacità di carico combinato	$F_{Rd}$	251.07 kN
<b>verifica di resistenza a taglio / trazione</b>		<b>0.55 &lt; 1.0</b>

## Apparecchi d'appoggio - Neoprene

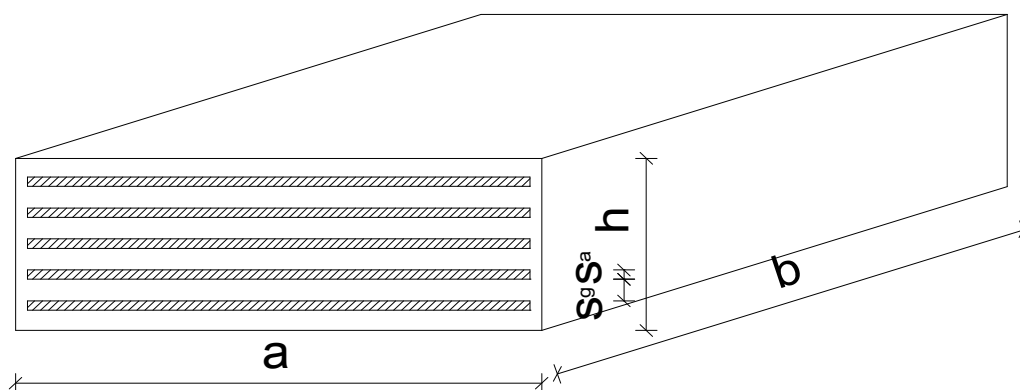
Appoggio dell'impalcato Campata centrale - pila sud

### Sollecitazioni di progetto - Appoggio tipo

Condizioni di esercizio - SLE

<b>Forza verticale totale: <math>F_z</math> (kg) =</b>	<b>10 116</b>
Forza verticale per carichi permanenti: $F_z$ (p) (kg) =	4 653
Forza verticale per azioni di breve durata (variabili): $F_z$ (q) (kg) =	5 463
<b>Forza orizzontale totale: <math>F_{xy}</math> (kg) =</b>	<b>5 973</b>
Forza orizzontale per carichi permanenti: $F_{xy}$ (p) (kg) =	2 688
Forza orizzontale per carichi di breve durata (variabili): $F_{xy}$ (q) (kg) =	3 285
	$\psi_{2j} =$ 0.60

Si assume che le azioni orizzontali per sisma e vento siano assorbite dai ritegni in acciaio.



### Caratteristiche geometriche dell'appoggio

Lato trasversale appoggio: $a$ (cm) =	28
Lato longitudinale appoggio: $b$ (cm) =	15
Spessore singolo strato di gomma: $s_g$ (cm) =	2.0
Numero di strati di gomma interni ai lamierini: $n_g$ =	1
Spessore strato di gomma esterno: $s_e$ (cm) =	0
Spessore totale della gomma interna ai lamierini: $h_g$ (cm) =	2
Numero di lamierini di armatura in acciaio: $n_a$ =	0
Spessore singolo lamierino: $s_a$ (cm) =	0

Spessore totale dell'appoggio: $h$ (cm) =	2
---	---

Caratteristiche della gomma, per durezza 60 gradi Shore A3:

Modulo di elasticità tangenziale della gomma: $G$ (kg/cm <sup>2</sup> ) (= $E/3$ ) =	9.0
--	-----

Area di appoggio: $A_c$ (cm <sup>2</sup> ) =	420.0
Area di appoggio ridotta: $A_r$ (cm <sup>2</sup> ) =	398.7
Coefficiente di forma: $S = \mu$ =	2.442

**Tensioni e deformazioni nell'appoggio**

Tensione tangenziale prodotta da $F_{xy}$ (p) e $F_{xy}$ (q): $\tau_H$ (kg/cm <sup>2</sup> ) =	6.40
Scorrimento elastico dovuto a $F_{xy}$ (p) e $F_{xy}$ (q): $\tan \gamma$ =	0.71
Spostamento orizzontale elastico longitudinale: $u_a$ (cm) =	1.422
Spostamento orizzontale elastico trasversale: $u_b$ (cm) =	0
Tensione normale prodotta dal carico $F_z$ : $\sigma_V$ (kg/cm <sup>2</sup> ) =	25.38
Tensione normale prodotta dal carico permanente $F_z$ (p): $\sigma_V'$ (kg/cm <sup>2</sup> ) =	11.67
Tensione tangenziale prodotta da $F_z$ : $\tau_V$ (kg/cm <sup>2</sup> ) =	15.59
Rotaz. all'app. in direz. y (nel piano della strutt.) - Cond. statiche: $\alpha$ (rad) =	0.00629
Rotaz. all'appoggio in direz. x (fuori dal piano della struttura): $\alpha_x$ (rad) =	0.00005
Tensione tangenziale prodotta dalla rotazione $\alpha$ : $\tau_{\alpha y}$ (kg/cm <sup>2</sup> ) =	5.55
Rotaz. all'app. in direz. y (nel piano della strutt.) - Cond. sismiche: $\alpha$ (rad) =	0.00533
Rotaz. all'appoggio in direz. x (fuori dal piano della struttura): $\alpha_x$ (rad) =	0.00005
Tensione tangenziale prodotta dalla rotazione $\alpha$ : $\tau_{\alpha y}$ (kg/cm <sup>2</sup> ) =	4.70
Accorciamento elastico dell'appoggio dovuto a $F_z$ : $\Delta h$ (cm) =	0.0984

**Verifiche appoggio elastomerico non armato**

Verifiche di resistenza

$\sigma_V$ (kg/cm <sup>2</sup> ) =	25.38	<	26.4	kg/cm <sup>2</sup>
$\sigma_V'$ (kg/cm <sup>2</sup> ) =	11.67	<	50.0	kg/cm <sup>2</sup>
$\sigma_{V''}$ (kg/cm <sup>2</sup> ) =	13.70	<	26.4	kg/cm <sup>2</sup>
Cond. statiche: $\Delta h$ (cm) =	0.0984	>	$(a/2) \tan \alpha =$	0.0885 cm
Cond. sism: $\Delta h$ (cm) =	0.0984	>	$(a/6) \tan \alpha =$	0.0250 cm

Verifiche di stabilità

$h$ (cm) =	2.00	<	$a / 5 =$	5.60 cm
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## APPOGGI TRAVI DI IMPALCATO

## Campata centrale - pila nord

### Appoggio su struttura in c.a. - Verifica SLU a presso-flessione

#### Caratteristiche dei materiali

##### - Calcestruzzo

Classe calcestruzzo della struttura di base: $R_{ck}$ (N/mm <sup>2</sup> ) =	34.4	Carota	C6
Resistenza cilindrica caratteristica del materiale base: $f_{ck}$ (N/mm <sup>2</sup> ) =	28.5		
Resistenza a taglio caratteristica del materiale base: $f_{ctk}$ (N/mm <sup>2</sup> ) =	1.96		
Coefficiente di sicurezza parziale del materiale: $\gamma_c$ =	1.50		
Fattore di confidenza: FC =	1.20		
Resist. a compressione di progetto del materiale base: $f_{cd}$ (N/mm <sup>2</sup> ) =	13.47		
Resistenza a taglio di progetto del materiale base: $f_{ctd}$ (N/mm <sup>2</sup> ) =	1.09		

##### - Barre in acciaio

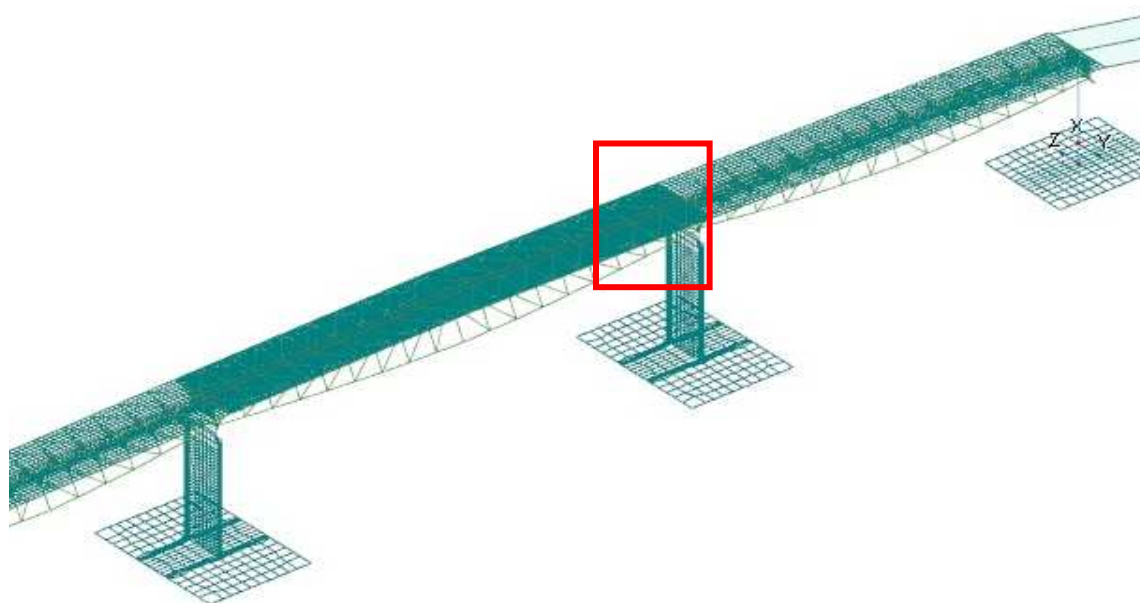
Acciaio a snervamento: $f_{yk}$ (MPa) =	460	Spezz.	2
Acciaio a rottura: $f_{tk}$ (MPa) =	681		

##### Si assumono i valori di un acciaio FeB44k

Resistenza a rottura caratteristica delle barre: $f_{tk}$ (N/mm <sup>2</sup> ) =	681	FeB44k
Resistenza a snervamento caratteristica delle barre: $f_{yk}$ (N/mm <sup>2</sup> ) =	460	
Coefficiente parziale di sicurezza del materiale: $\gamma_M$ =	1.15	
Fattore di confidenza: FC =	1.00	(struttura esistente con prova diretta su campione)
Resistenza a trazione di progetto delle barre di nodo: $f_{s,yd}$ (N/mm <sup>2</sup> ) =	400.0	

##### - Materiali dell'ancoraggio

$f_{yk}$ (N/mm <sup>2</sup> ) =	640
Classe dell'acciaio:	cl. 8.8
$f_{yd}$ (N/mm <sup>2</sup> ) =	512
Tensione di rottura: $f_{tk}$ (N/mm <sup>2</sup> ) =	800
Coeff. sicur. parziale: $\gamma_s$ =	1.25



Posizione dell'appoggio sulla struttura in c.a.

## Verifica a pressoflessione dell'appoggio

Definizione della sezione resistente e delle sollecitazioni.

**Titolo :** Pila nord - Appoggio

N° Vertici  Zoom      N° barre  Zoom

N°	x [cm]	y [cm]
1	0	0
2	0	43.5
3	32	43.5
4	32	0

N°	As [cm²]	x [cm]	y [cm]
4	2.01	4	27.93
5	2.01	28	3.2
6	2.01	28	40.3
7	2.01	28	15.56
8	2.01	28	27.93

**Sollecitazioni**

S.L.U.    Metodo n

N <sub>Ed</sub>	<input type="text" value="101.1"/>	<input type="text" value="128.8"/> kN
M <sub>xEd</sub>	<input type="text" value="0.43"/>	<input type="text" value="0.69"/> kNm
M <sub>yEd</sub>	<input type="text" value="0.00"/>	<input type="text" value="0.13"/>

**P.to applicazione N**

Centro     Baricentro cls

Coord.[cm]    xN     yN

**Tipo rottura**

Lato calcestruzzo - Acciaio snervato

**Metodo di calcolo**

S.L.U.+     S.L.U.-

Metodo n

**Tipo flessione**

Retta     Deviata

N° rett.

Calcola MRd    Dominio Mx-My

angolo asse neutro θ°

Precompresso

**Materiali**

cl. 8.8    Carota C6

ε <sub>su</sub>	<input type="text" value="67.5"/> ‰	ε <sub>c2</sub>	<input type="text" value="2"/> ‰
f <sub>yd</sub>	<input type="text" value="556.5"/> N/mm²	ε <sub>cu</sub>	<input type="text" value="3.5"/> ‰
E <sub>s</sub>	<input type="text" value="200 000"/> N/mm²	f <sub>cd</sub>	<input type="text" value="13.49"/>
E <sub>s</sub> /E <sub>c</sub>	<input type="text" value="15"/>	f <sub>cc</sub> /f <sub>cd</sub>	<input type="text" value="0.8"/> ?
ε <sub>syd</sub>	<input type="text" value="2.783"/> ‰	σ <sub>c,adm</sub>	<input type="text" value="9.4"/>
σ <sub>s,adm</sub>	<input type="text" value="426"/> N/mm²	τ <sub>co</sub>	<input type="text" value="0.5813"/>
		τ <sub>c1</sub>	<input type="text" value="1.789"/>

M <sub>xRd</sub>	<input type="text" value="159.4"/> kN m		
M <sub>yRd</sub>	<input type="text" value="0"/> kN m		
σ <sub>c</sub>	<input type="text" value="-13.49"/> N/mm²		
σ <sub>s</sub>	<input type="text" value="556.5"/> N/mm²		
ε <sub>c</sub>	<input type="text" value="3.5"/> ‰		
ε <sub>s</sub>	<input type="text" value="8.166"/> ‰		
d	<input type="text" value="40.3"/> cm		
x	<input type="text" value="12.09"/>	x/d	<input type="text" value="0.3"/>
		δ	<input type="text" value="0.815"/>

Si considera l'altezza del tacco di riscontro (piano di trasferimento dell'azione sollecitante) dalla sezione di verifica del collegamento sul calcestruzzo di base.

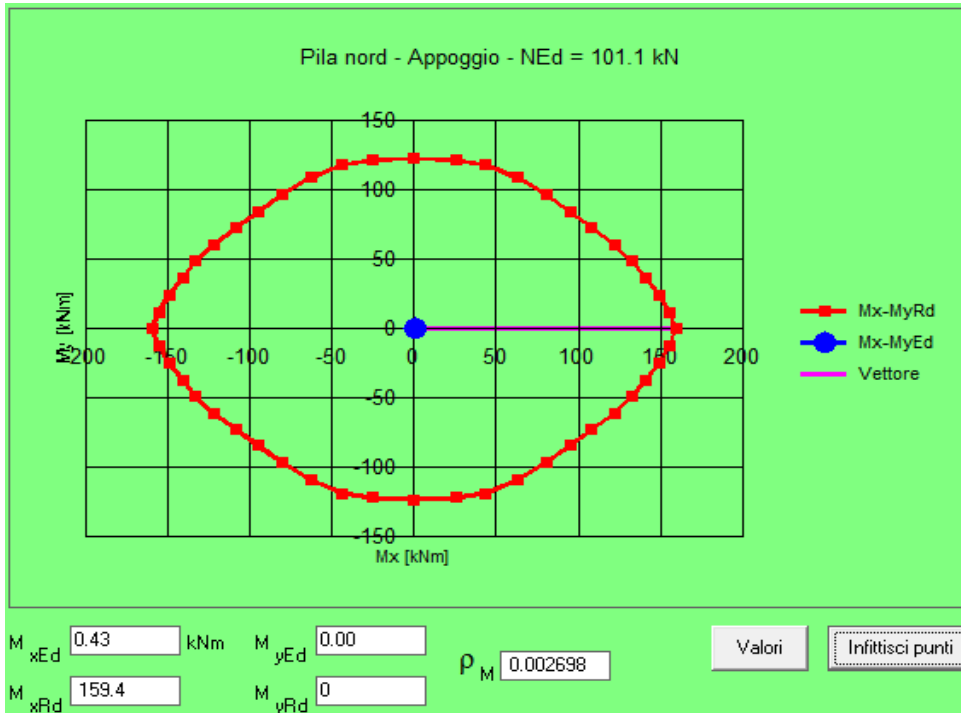
Altezza del dispositivo di appoggio: h' (cm) =

5.0

### Sollecitazioni e verifiche

- SISMA direzione X

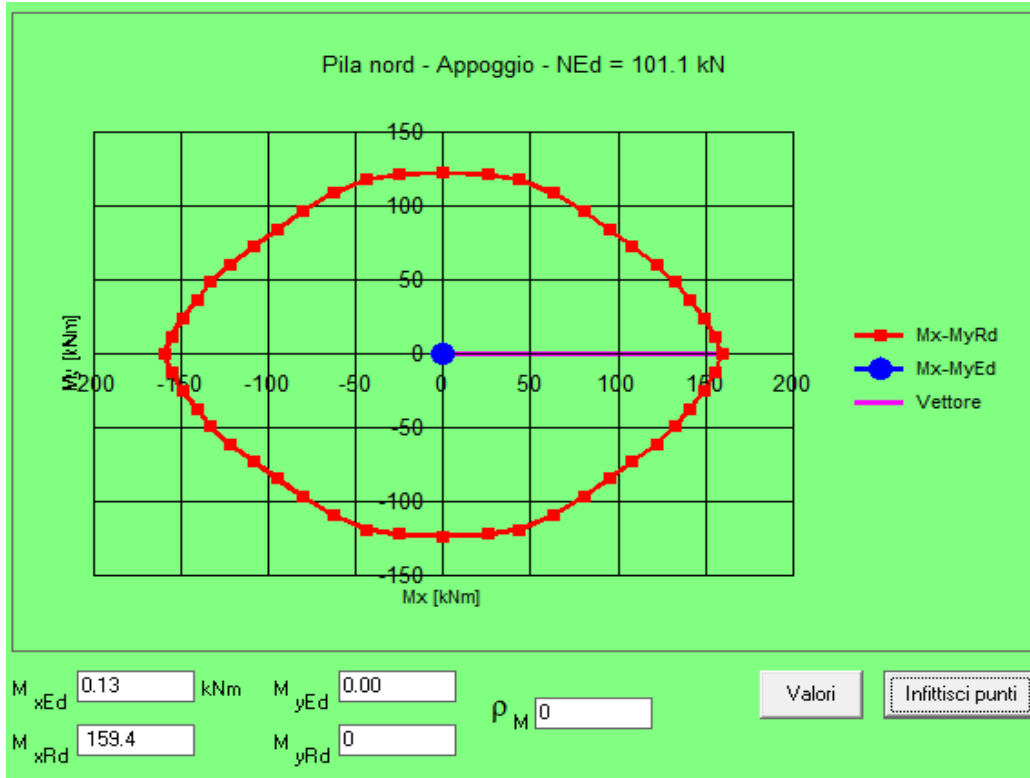
Momento sollecitante massimo asse Y:  $M_{Ed,y}$  (kNm) = 0.43  
 Momento sollecitante corrispondente asse X:  $M_{Ed,x}$  (kNm) = 0.00  
 Sforzo normale corrispondente:  $N_{Ed,1}$  (kN) = 101.1  
 Taglio sollecitante lungo asse X:  $V_{Ed,x}$  (kN) = 85.6  
 Taglio sollecitante lungo asse Y:  $V_{Ed,y}$  (kN) = 0.1



Rapporto di verifica a pressoflessione:  $\rho_M$  = 0.003

- SISMA direzione Y

Momento sollecitante massimo asse Y: $M_{Ed,y}$ (kNm) =	0.13
Momento sollecitante corrispondente asse X: $M_{Ed,x}$ (kNm) =	0.00
Sforzo normale corrispondente: $N_{Ed,1}$ (kN) =	101.1
Taglio sollecitante lungo asse X: $V_{Ed,x}$ (kN) =	25.7
Taglio sollecitante lungo asse Y: $V_{Ed,y}$ (kN) =	0.4

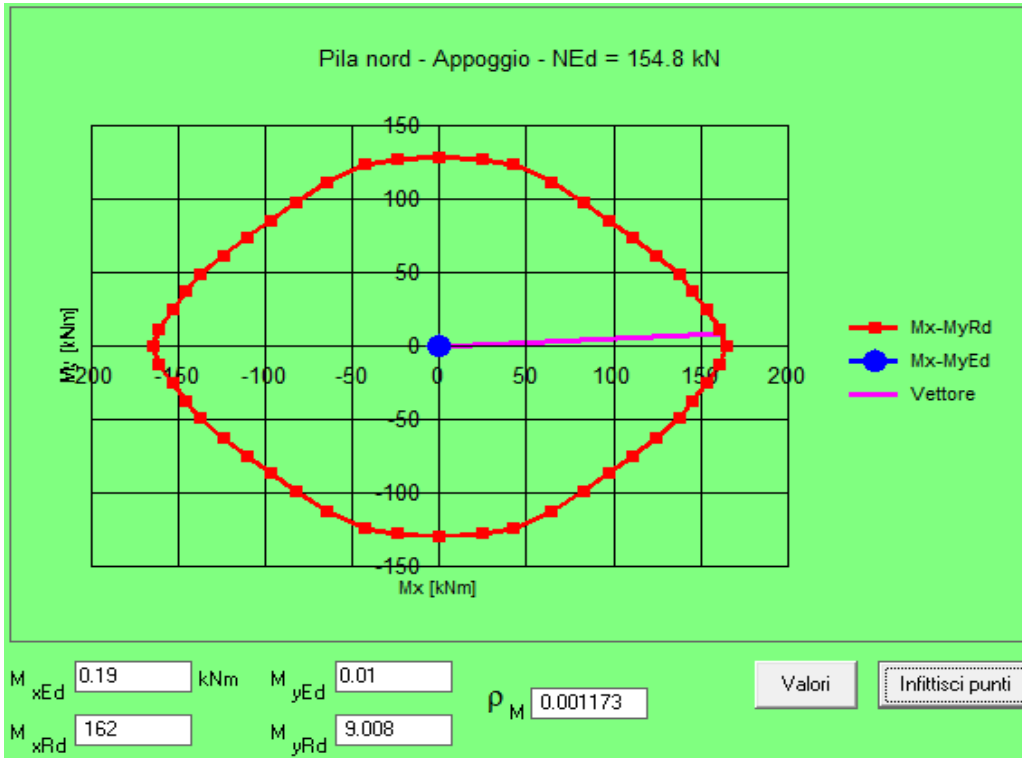


Rapporto di verifica a pressoflessione:  $\rho_M =$



- STATICA + VENTO

Momento sollecitante massimo asse Y:  $M_{Ed,y}$  (kNm) = 0.19  
 Momento sollecitante corrispondente asse X:  $M_{Ed,x}$  (kNm) = 0.01  
 Sforzo normale corrispondente:  $N_{Ed,1}$  (kN) = 154.8  
 Taglio sollecitante lungo asse X:  $V_{Ed,x}$  (kN) = 37.2  
 Taglio sollecitante lungo asse Y:  $V_{Ed,y}$  (kN) = 1.3



Rapporto di verifica a pressoflessione:  $\rho_M =$

Rapporto di verifica massimo:  $\rho_M =$   < **1.00**

## Verifica SLU a taglio (Vy-Vz)

### *Campata centrale - pila nord*

#### *- Materiali del dispositivo di appoggio*

Classe dell'acciaio:	S355J0
Tensione di rottura: $f_{tk}$ (N/mm <sup>2</sup> ) =	510
Tensione di snervamento: $f_{yk}$ (N/mm <sup>2</sup> ) =	355
Coefficiente di sicurezza parziale: $\gamma_s$ =	1.05
Resistenza di progetto: $f_{yd}$ (N/mm <sup>2</sup> ) =	338

#### *- Piatti di contenimento dell'appoggio in neoprene*

##### *- Geometria del vassoio di contenimento del neoprene*

Spessore del piatto di riscontro: t (mm) =	10
Altezza del piatto di riscontro: h (mm) =	35
Lunghezza del piatto di riscontro: l (mm) =	170
Num. di piatti di riscontro per ciascuna direz.: n =	2
Area resistente a taglio: $A_v$ (mm <sup>2</sup> ) =	3 400
Momento d'inerzia dei piatti: $J_s$ (mm <sup>4</sup> ) =	28 333
Modulo di resistenza dei piatti: $W_s$ (mm <sup>3</sup> ) =	56 667

##### *- Sollecitazioni*

Azione di taglio nei piatti di riscontro: $V_s$ (kN) =	85.6
Momento massimo nei piatti: M (kNm) =	3.0

##### *- Verifica del vassoio di contenimento del neoprene*

Tensione normale massima nei piatti: $\sigma_s$ (N/mm <sup>2</sup> ) =	53	<	338
Tensione tangenziale max. nei piatti: $\rho_s$ (N/mm <sup>2</sup> ) =	38	<	195

- Nervature verticali di raccordo sulle travi di impalcato

*- Geometria del piatto nervato verticale*

Num. di piatti di raccordo (pinne nervate): n =	2	
Altezza del piatto verticale: h (mm) =	200	
Spessore del piatto verticale: t (mm) =	20	
Larghezza del piatto verticale: b (mm) =	270	(base)
Spessore della nervatura: t' (mm) =	8	
Altezza della nervatura: h' (mm) =	200	
Larghezza di base della nervatura: b' (mm) =	80	
Numero di nervature di rinforzo: n' =	2	(per ciascuna pinna verticale)

Area totale della sezione composta: $A_s$ (mm <sup>2</sup> ) =	13 360
Area resistente a taglio: $A_v$ (mm <sup>2</sup> ) =	2 560
Posiz. asse neutro della sez. composta: x (mm) =	19.6
Momento d'inerzia del piatto nervato: $J_s$ (cm <sup>4</sup> ) =	689.9
Modulo di resist. del piatto nervato: $W_s$ (cm <sup>3</sup> ) =	85.8

*- Sollecitazioni*

Altezza di applicazione dell'azione orizz. H' (mm) =	133.3
Azione di taglio nei piatti di riscontro: $V_s$ (kN) =	85.6
Momento massimo nei piatti: M (kNm) =	11.4

*- Verifica del vassoio di contenimento del neoprene*

Tensione normale massima nei piatti: $\sigma_s$ (N/mm <sup>2</sup> ) =	133	<	338
Tensione tangenziale max. nei piatti: $\rho_s$ (N/mm <sup>2</sup> ) =	50	<	195

**Verifica ancoraggi sulla struttura in c.a.**

Trazione massima nei tirafondi: N (kN) =	-6.8 sisma
Taglio massimo nei tirafondi: V (kN) =	85.6 sisma
Trazione massima nei tirafondi: N (kN) =	0.0 statico
Taglio massimo nei tirafondi: V (kN) =	37.2 statico

*Le verifiche di resistenza dell'ancoraggio sono svolte nelle pagine seguenti.*

## VERIFICA DELL'ANCORAGGIO SULLA STRUTTURA IN C.A.

*Campata centrale - pila nord*

Riferimento del nodo: **Appoggio della trave di impalcato**

Si verifica l'ancoraggio della struttura di base. L'azione massima è trasferita al piatto di base dal tacco di riscontro a taglio interno al dispositivo di appoggio.

Tipo di ancorante		<b>HILTI HIT-HY 200A</b>
Diametro della barra	d	16 mm
Classe acciaio barra		Classe 8.8
Area della barra di ancoraggio	$A_b$	201.1 mm <sup>2</sup>
Numero di barre di ancoraggio	n.	8
Trazione di progetto - SLU	$N_{Sd}$	0.00 kN
Taglio di progetto - SLU	$V_{Sd}$	37.24 kN

Si considera un ancoraggio con barra inclinata di un angolo  $\beta$  rispetto alla normale alla superficie di ancoraggio (materiale base).

Angolo di infissione della barra di ancoraggio  $\beta$  0 °

Componente di trazione di progetto - SLU	$N'_{Sd}$	0.00 kN
Componente di taglio di progetto - SLU	$V'_{Sd}$	37.24 kN

### **Calcolo della trazione resistente**

Rottura di progetto lato calcestruzzo (classe C20/25)	$N_{0Rd,c}$	33.2 kN
Profondità nominale di ancoraggio	$h_{nom}$	120 mm
Profondità effettiva di ancoraggio	$h_{act}$	200 mm
Fattore di influenza della profondità	$f_T$	1.667
Resistenza cubica a comp. cls	$R_{ck}$	34.4 MPa
Fattore di confidenza	FC	1.20
Fattore classe di resistenza	$f_{b,N}$	1.04
Interasse di posa	s	118 mm
Interasse minimo di posa	$s_{min}$	80 mm
	$s / s_{min}$	1.48 > 1.0
Fattore interasse di posa	$f_{A,N}$	0.75
Distanza dal bordo	c	80 mm
Distanza minima di posa dai bordi	$c_{min}$	80 mm
	$c / c_{min}$	1.00 > 1.0
Fattore distanza dal bordo - sp	$f_{R,N}$	0.76
Cedimento cono cls	$N_{Rd,c}$	32.5 kN
<b>Resistenza a trazione (materiale base - resina)</b>	<b><math>N_{Rd}</math></b>	<b>32.5 kN</b>
<b>Resistenza a trazione (lato acciaio)</b>	<b><math>N_{Rd}</math></b>	<b>86.9 kN</b>

**Calcolo della resistenza a taglio**

Rottura di progetto lato calcestruzzo (classe C20/25)	$V_{Rd,c}$	36.7 kN
Fattore classe di resistenza	$f_{b,V}$	1.07
<b>Resistenza a taglio (materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>39.3 kN</b>
Resistenza a compressione caratt. materiale base	$f_{ck}$	28.53 N/mm <sup>2</sup>
Spessore della struttura di base	$t$	1000 mm
Diametro di rottura del cono della soletta	$d'$	26 mm
<b>Resistenza a taglio (rifollam. materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>61.8 kN</b>
<b>Resistenza a taglio (lato acciaio)</b>	<b><math>V_{Rd}</math></b>	<b>57.9 kN</b>

**Verifiche di resistenza**

Resistenza totale a trazione	$N_{Rd,tot}$	260.06 kN
Resistenza totale a taglio	$V_{Rd,tot}$	314.26 kN
<b>verifica di resistenza a trazione</b>		<b>0.00 &lt; 1.0</b>
<b>verifica di resistenza a taglio</b>		<b>0.12 &lt; 1.0</b>
Carico combinato sollecitante	$F_{Sd}$	37.24 kN
Inclinazione del carico combinato	$\alpha$	1.57 rad
Capacità di carico combinato	$F_{Rd}$	314.26 kN
<b>verifica di resistenza a taglio / trazione</b>		<b>0.12 &lt; 1.0</b>

## VERIFICA DELL'ANCORAGGIO SULLA STRUTTURA IN C.A.

*Campata centrale - pila nord*

Riferimento del nodo: **Appoggio della trave di impalcato (condiz. di sollevamento)**

Si verifica l'ancoraggio della struttura di base. L'azione massima è trasferita al piatto di base dal tacco di riscontro a taglio interno al dispositivo di appoggio.

Tipo di ancorante		<b>HILTI HIT-HY 200A</b>
Diametro della barra	d	16 mm
Classe acciaio barra		Classe 8.8
Area della barra di ancoraggio	$A_b$	201.1 mm <sup>2</sup>
Numero di barre di ancoraggio	n.	7
Trazione di progetto - SLU	$N_{Sd}$	6.84 kN
Taglio di progetto - SLU	$V_{Sd}$	85.62 kN

Si considera un ancoraggio con barra inclinata di un angolo  $\beta$  rispetto alla normale alla superficie di ancoraggio (materiale base).

Angolo di infissione della barra di ancoraggio  $\beta$  0 °

Componente di trazione di progetto - SLU	$N'_{Sd}$	6.84 kN
Componente di taglio di progetto - SLU	$V'_{Sd}$	85.62 kN

### **Calcolo della trazione resistente**

Rottura di progetto lato calcestruzzo (classe C20/25)	$N_{0Rd,c}$	33.2 kN
Profondità nominale di ancoraggio	$h_{nom}$	120 mm
Profondità effettiva di ancoraggio	$h_{act}$	200 mm
Fattore di influenza della profondità	$f_T$	1.667
Resistenza cubica a comp. cls	$R_{ck}$	34.37 MPa
Fattore di confidenza	FC	1.20
Fattore classe di resistenza	$f_{b,N}$	1.04
Interasse di posa	s	123 mm
Interasse minimo di posa	$s_{min}$	80 mm
	$s / s_{min}$	1.54 > 1.0
Fattore interasse di posa	$f_{A,N}$	0.76
Distanza dal bordo	c	110 mm
Distanza minima di posa dai bordi	$c_{min}$	80 mm
	$c / c_{min}$	1.38 > 1.0
Fattore distanza dal bordo - sp	$f_{R,N}$	0.94
Cedimento cono cls	$N_{Rd,c}$	40.8 kN
<b>Resistenza a trazione (materiale base - resina)</b>	<b><math>N_{Rd}</math></b>	<b>40.8 kN</b>
<b>Resistenza a trazione (lato acciaio)</b>	<b><math>N_{Rd}</math></b>	<b>86.9 kN</b>

**Calcolo della resistenza a taglio**

Rottura di progetto lato calcestruzzo (classe C20/25)	$V_{Rd,c}$	36.7 kN
Fattore classe di resistenza	$f_{b,V}$	1.07
<b>Resistenza a taglio (materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>39.3 kN</b>
Resistenza a compressione caratt. materiale base	$f_{ck}$	28.53 N/mm <sup>2</sup>
Spessore della struttura di base	$t$	1000 mm
Diametro di rottura del cono della soletta	$d'$	26 mm
<b>Resistenza a taglio (rifollam. materiale base)</b>	<b><math>V_{Rd}</math></b>	<b>61.8 kN</b>
<b>Resistenza a taglio (lato acciaio)</b>	<b><math>V_{Rd}</math></b>	<b>57.9 kN</b>

**Verifiche di resistenza**

Resistenza totale a trazione	$N_{Rd,tot}$	285.37 kN
Resistenza totale a taglio	$V_{Rd,tot}$	274.98 kN
<b>verifica di resistenza a trazione</b>		<b>0.02 &lt; 1.0</b>
<b>verifica di resistenza a taglio</b>		<b>0.31 &lt; 1.0</b>
Carico combinato sollecitante	$F_{Sd}$	85.90 kN
Inclinazione del carico combinato	$\alpha$	1.49 rad
Capacità di carico combinato	$F_{Rd}$	271.99 kN
<b>verifica di resistenza a taglio / trazione</b>		<b>0.32 &lt; 1.0</b>

## Apparecchi d'appoggio - Neoprene

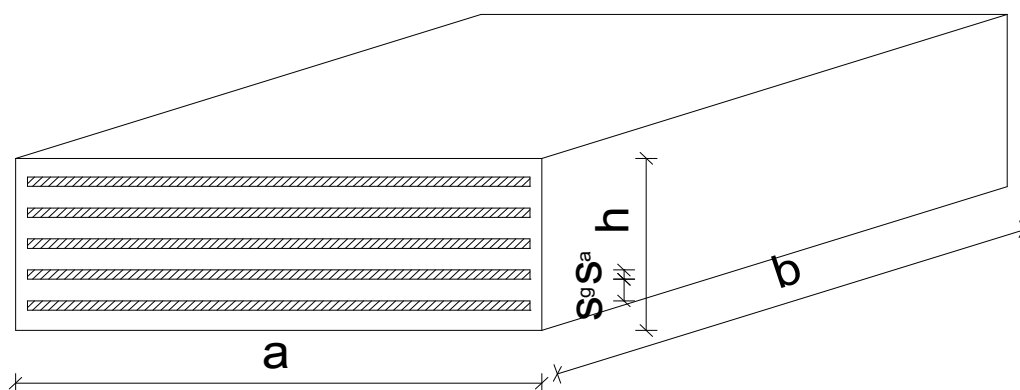
Appoggio dell'impalcato Campata centrale - pila nord

### Sollecitazioni di progetto - Appoggio tipo

Condizioni di esercizio - SLE

<b>Forza verticale totale: <math>F_z</math> (kg) =</b>	<b>9 577</b>
Forza verticale per carichi permanenti: $F_z$ (p) (kg) =	4 405
Forza verticale per azioni di breve durata (variabili): $F_z$ (q) (kg) =	5 172
<b>Forza orizzontale totale: <math>F_{xy}</math> (kg) =</b>	<b>2 751</b>
Forza orizzontale per carichi permanenti: $F_{xy}$ (p) (kg) =	1 238
Forza orizzontale per carichi di breve durata (variabili): $F_{xy}$ (q) (kg) =	1 513
	$\psi_{2j} =$ 0.60

Si assume che le azioni orizzontali per sisma e vento siano assorbite dai ritegni in acciaio.



### Caratteristiche geometriche dell'appoggio

Lato trasversale appoggio: a (cm) =	28
Lato longitudinale appoggio: b (cm) =	15
Spessore singolo strato di gomma: $s_g$ (cm) =	2.0
Numero di strati di gomma interni ai lamierini: $n_g$ =	1
Spessore strato di gomma esterno: $s_e$ (cm) =	0
Spessore totale della gomma interna ai lamierini: $h_g$ (cm) =	2
Numero di lamierini di armatura in acciaio: $n_a$ =	0
Spessore singolo lamierino: $s_a$ (cm) =	0

Spessore totale dell'appoggio: h (cm) =	2
---	---

Caratteristiche della gomma, per durezza 60 gradi Shore A3:

Modulo di elasticità tangenziale della gomma: $G$ (kg/cm <sup>2</sup> ) (= E/3) =	9.0
---	-----

Area di appoggio: $A_c$ (cm <sup>2</sup> ) =	420.0
Area di appoggio ridotta: $A_r$ (cm <sup>2</sup> ) =	410.2
Coefficiente di forma: $S = \mu$ =	2.442



**Tensioni e deformazioni nell'appoggio**

Tensione tangenziale prodotta da $F_{xy}$ (p) e $F_{xy}$ (q): $\tau_H$ (kg/cm <sup>2</sup> ) =	2.95
Scorrimento elastico dovuto a $F_{xy}$ (p) e $F_{xy}$ (q): $\tan \gamma$ =	0.33
Spostamento orizzontale elastico longitudinale: $u_a$ (cm) =	0.655
Spostamento orizzontale elastico trasversale: $u_b$ (cm) =	0
Tensione normale prodotta dal carico $F_z$ : $\sigma_V$ (kg/cm <sup>2</sup> ) =	23.35
Tensione normale prodotta dal carico permanente $F_z$ (p): $\sigma_V'$ (kg/cm <sup>2</sup> ) =	10.74
Tensione tangenziale prodotta da $F_z$ : $\tau_V$ (kg/cm <sup>2</sup> ) =	14.34
Rotaz. all'app. in direz. y (nel piano della strutt.) - Cond. statiche: $\alpha$ (rad) =	0.00644
Rotaz. all'appoggio in direz. x (fuori dal piano della struttura): $\alpha_x$ (rad) =	0.00005
Tensione tangenziale prodotta dalla rotazione $\alpha$ : $\tau_{\alpha y}$ (kg/cm <sup>2</sup> ) =	5.68
Rotaz. all'app. in direz. y (nel piano della strutt.) - Cond. sismiche: $\alpha$ (rad) =	0.00533
Rotaz. all'appoggio in direz. x (fuori dal piano della struttura): $\alpha_x$ (rad) =	0.00005
Tensione tangenziale prodotta dalla rotazione $\alpha$ : $\tau_{\alpha y}$ (kg/cm <sup>2</sup> ) =	4.70
Accorciamento elastico dell'appoggio dovuto a $F_z$ : $\Delta h$ (cm) =	0.0916

**Verifiche appoggio elastomerico non armato**

Verifiche di resistenza

$\sigma_V$ (kg/cm <sup>2</sup> ) =	23.35	<	26.4	kg/cm <sup>2</sup>
$\sigma_V'$ (kg/cm <sup>2</sup> ) =	10.74	<	50.0	kg/cm <sup>2</sup>
$\sigma_{V''}$ (kg/cm <sup>2</sup> ) =	12.61	<	26.4	kg/cm <sup>2</sup>
Cond. statiche: $\Delta h$ (cm) =	0.0916	>	$(a/2) \tan \alpha =$	0.0905 cm
Cond. sism: $\Delta h$ (cm) =	0.0916	>	$(a/6) \tan \alpha =$	0.0250 cm

Verifiche di stabilità

$h$ (cm) =	2.00	<	$a / 5 =$	5.60 cm
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## VERIFICA DEGLI SPOSTAMENTI

*Campata centrale - pila nord*

Luce teorica di calcolo	L	17.293 m
Variazione termica di progetto	$\Delta T =$	25 °C
Dilatazione termica massima attesa	$\Delta L =$	5.19 mm

### - Condizioni statiche

Spostamento massimo in direzione longitudinale	d	14.3 mm
Asolatura nei piatti	d'	20.0 mm
<b>verifica di spostamento ammesso</b>		<b>0.72 &lt; 1.0</b>

### - Condizioni sismiche

Spostamento massimo in direzione longitudinale	d	5.5 mm
Asolatura nei piatti	d'	20.0 mm
<b>verifica di spostamento ammesso</b>		<b>0.28 &lt; 1.0</b>