

COMUNE DI VARESE

Provincia di Varese

RIFACIMENTO DELLE STRUTTURE IN LEGNO
RIFACIMENTO DEL MANTO DI COPERTURA E NUOVA LINEA VITA
DEL PADIGLIONE TANZI PRESSO L'EX ONP DI Via O. Rossi n. 9 - Varese
PROGETTO ESECUTIVO

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elaborato: E-CAR TAB-A	OPERE STRUTTURALI IN LEGNO TABULATI DI CALCOLO
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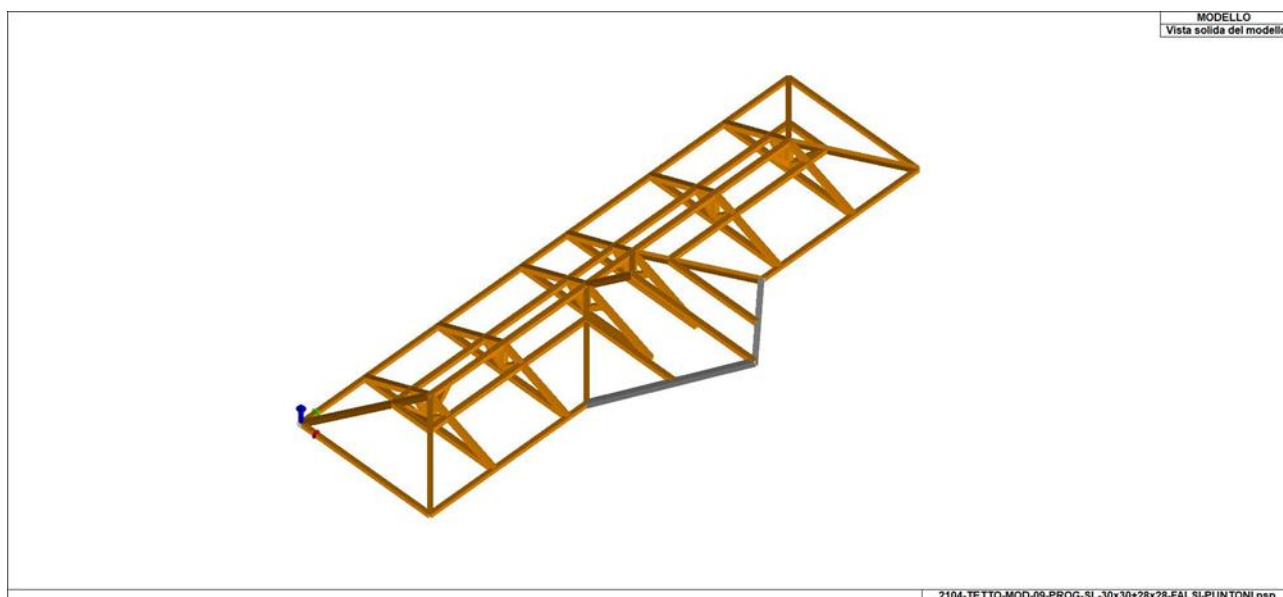
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ATS INSUBRIA

VIA OTTORINO ROSSI N.9

21100 - VARESE (VA)



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PROGETTO ESECUTIVO

PROGETTO DELLE STRUTTURE

RELAZIONE DI CALCOLO DELLE STRUTTURE IN LEGNO

TABULATI DI CALCOLI DELLE STRUTTURE

Dicembre 2024

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Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2024-10-201)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi3412

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Codice Licenza:	Licenza dsi3412

In merito al punto 10.2 delle Norme Tecniche per le Costruzioni (*Affidabilità dei codici utilizzati*), si fa riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” disponibile per il download sul sito: <https://www.2si.it/it/prodotti/affidabilita/>

1. MODELLAZIONE STRUTTURA: NODI

1.1 LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

1.1.1 TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2	540.0	1320.0	128.6	3	420.0	1740.0	180.0	4	420.0	1440.0	
180.0											
8	300.0	300.0	128.6	9	540.0	300.0	128.6	14	420.0	1440.0	
30.0											
15	420.0	420.0	180.0	19	300.0	1440.0	128.6	20	420.0	420.0	
30.0											
21	300.0	2880.0	128.6	22	300.0	420.0	128.6	23	540.0	1740.0	
128.6											
24	300.0	1740.0	128.6	25	670.0	1590.0	244.3	27	540.0	420.0	
128.6											
29	420.0	900.0	180.0	32	570.0	1590.0	244.3	33	420.0	900.0	
30.0											
34	540.0	2880.0	128.6	35	300.0	900.0	128.6	36	630.0	1440.0	
90.0											
37	540.0	1440.0	128.6	38	630.0	1740.0	90.0	39	540.0	900.0	
128.6											
40	540.0	2760.0	128.6	41	540.0	1860.0	128.6	43	540.0	2280.0	
128.6											

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RELAZIONE STRUTTURE - TABULATI

44	420.0	2280.0	30.0	48	420.0	2280.0	180.0	50	300.0	2280.0
128.6										
53	420.0	1740.0	30.0	54	420.0	2760.0	180.0	59	420.0	2760.0
30.0										
60	300.0	2760.0	128.6	61	420.0	540.0	180.0	62	420.0	2640.0
180.0										
Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig.
RZ										
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN
cm/rad										
1	1370.0	1590.0	244.3	v=111100						
5	0.0	1440.0	0.0	v=111111						
6	770.0	1320.0	128.6	v=111100						
7	1118.9	1320.0	128.6	v=111100						
10	840.0	1440.0	0.0	v=111111						
11	0.0	1740.0	0.0	v=111111						
12	840.0	1020.0	0.0	v=111111						
13	0.0	0.0	0.0	v=111000						
16	840.0	0.0	0.0	v=111000						
17	0.0	420.0	0.0	v=111111						
18	840.0	420.0	0.0	v=111111						
26	420.0	0.0	0.0	v=001000						
28	770.0	1590.0	244.3	v=111100						
30	0.0	900.0	0.0	v=111111						
31	840.0	900.0	0.0	v=111111						
42	840.0	2280.0	0.0	v=111111						
45	770.0	1860.0	128.6	v=111100						
46	1118.9	1860.0	128.6	v=111100						
47	420.0	3180.0	0.0	v=001000						
49	840.0	1740.0	0.0	v=111111						
51	840.0	2160.0	0.0	v=111111						
52	0.0	3180.0	0.0	v=111000						
55	840.0	3180.0	0.0	v=111000						
56	0.0	2760.0	0.0	v=111111						
57	840.0	2760.0	0.0	v=111111						
58	0.0	2280.0	0.0	v=111111						

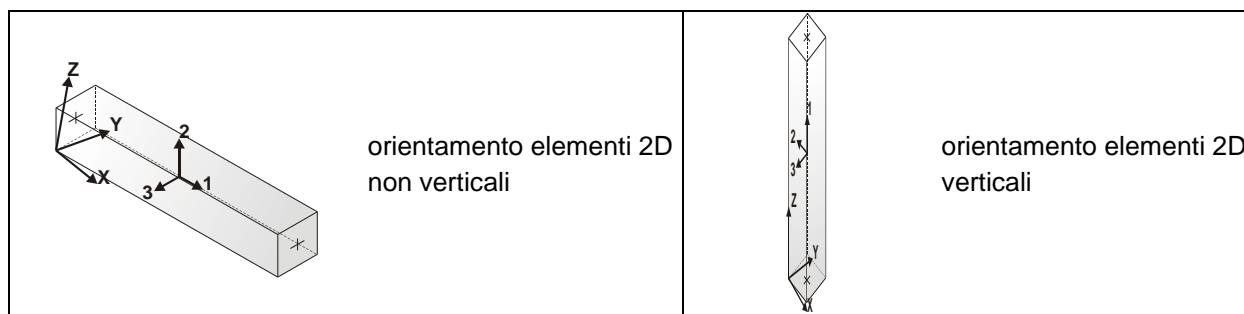
2. MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

2.1 TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Elem. Wink O	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V
							gradi			daN/cm3
daN/cm3										
1	Trave	29	4	120	22	1		000011	000011	
2	Trave	4	3	120	22	1				
3	Trave	4	32	120	21	1			000001	
4	Trave	18	31	120	24	1				
5	Trave	8	22	120	22	1		000011	000011	
6	Trave	38	49	120	17	1			000011	
7	Pilas.	53	3	120	19	1				
8	Trave	24	53	120	18	1		000011		
9	Trave	32	25	120	22	1		000011		
10	Trave	28	1	120	22	1				
11	Trave	34	55	120	21	1				
12	Trave	16	18	120	24	1				
13	Trave	13	26	120	24	1				
14	Trave	8	15	120	21	1			000011	
15	Trave	2	6	120	22	1		000011		
16	Trave	6	7	120	22	1				
17	Trave	39	2	120	22	1		000011	000011	
18	Trave	27	39	120	22	1		000011	000011	
19	Trave	9	27	120	22	1		000011	000011	
20	Trave	17	18	120	20	1		000011	000011	
21	Trave	17	22	120	17	1		000011		
22	Trave	20	27	120	18	1			000011	
23	Trave	47	55	120	24	1				
24	Trave	22	15	120	17	1			000011	
25	Trave	22	20	120	18	1		000011		
26	Trave	27	18	120	17	1			000011	
27	Pilas.	20	15	120	19	1				
28	Trave	46	1	1	1	1				
29	Trave	15	27	120	17	1		000011		
30	Trave	30	31	120	20	1		000011	000011	
31	Trave	30	35	120	17	1		000011		
32	Trave	33	39	120	18	1			000011	
33	Trave	26	16	120	24	1				
34	Trave	35	29	120	17	1			000011	
35	Trave	35	33	120	18	1		000011		
36	Trave	39	31	120	17	1			000011	
37	Pilas.	33	29	120	19	1				
38	Trave	61	29	120	22	1			000011	
39	Trave	29	39	120	17	1		000011		
40	Trave	5	10	120	20	1		000011	000011	
41	Trave	5	19	120	17	1		000011		
42	Trave	14	37	120	18	1			000011	
43	Trave	52	21	120	22	1				
44	Trave	19	4	120	17	1			000011	
45	Trave	19	14	120	18	1		000011		
46	Trave	36	10	120	17	1			000011	
47	Pilas.	14	4	120	19	1				
48	Trave	37	36	120	17	1				
49	Trave	4	37	120	17	1		000011		
50	Trave	12	7	1	1	1				
51	Trave	9	16	120	21	1				
52	Trave	7	1	1	1	1				
53	Trave	15	61	120	22	1		000011		
54	Trave	13	17	120	24	1				
55	Trave	17	30	120	24	1				
56	Trave	13	8	120	22	1				
57	Trave	15	9	120	21	1			000011	
58	Trave	30	5	120	24	1				
59	Trave	5	11	120	24	1				
60	Trave	8	9	120	22	1		000011	000011	
61	Trave	4	2	120	21	1		000011		
62	Trave	2	12	120	21	1			000011	
63	Trave	31	12	120	24	1				
64	Trave	3	48	120	22	1		000011	000011	
65	Trave	51	42	120	24	1				
66	Trave	3	32	120	21	1			000001	
67	Trave	42	57	120	24	1				
68	Trave	60	21	120	22	1		000011	000011	
69	Trave	23	38	120	17	1				
70	Trave	3	23	120	17	1		000011		

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RELAZIONE STRUTTURE - TABULATI

71	Trave	21	34	120	22	1	000011	000011
72	Trave	3	41	120	21	1	000011	
73	Trave	41	51	120	21	1		000011
74	Trave	51	46	1	1	1		
75	Trave	57	55	120	24	1		
76	Trave	52	47	120	24	1		
77	Trave	21	54	120	21	1		000011
78	Trave	41	45	120	22	1	000011	
79	Trave	45	46	120	22	1		
80	Trave	41	43	120	22	1	000011	000011
81	Trave	43	40	120	22	1	000011	000011
82	Trave	40	34	120	22	1	000011	000011
83	Trave	56	57	120	20	1	000011	000011
84	Trave	56	60	120	17	1	000011	
85	Trave	59	40	120	18	1		000011
86	Trave	54	34	120	21	1		000011
87	Trave	60	54	120	17	1		000011
88	Trave	60	59	120	18	1	000011	
89	Trave	40	57	120	17	1		000011
90	Pilas.	59	54	120	19	1		
91	Trave	58	56	120	24	1		
92	Trave	54	40	120	17	1	000011	
93	Trave	58	42	120	20	1	000011	000011
94	Trave	58	50	120	17	1	000011	
95	Trave	44	43	120	18	1		000011
96	Trave	11	58	120	24	1		
97	Trave	50	48	120	17	1		000011
98	Trave	50	44	120	18	1	000011	
99	Trave	43	42	120	17	1		000011
100	Pilas.	44	48	120	19	1		
101	Trave	56	52	120	24	1		
102	Trave	48	43	120	17	1	000011	
103	Trave	11	49	120	20	1	000011	000011
104	Trave	11	24	120	17	1	000011	
105	Trave	53	23	120	18	1		000011
106	Trave	25	28	120	22	1		
107	Trave	24	3	120	17	1		000011
108	Trave	22	35	120	22	1	000011	000011
109	Trave	50	60	120	22	1	000011	000011
110	Trave	35	19	120	22	1	000011	000011
111	Trave	19	24	120	22	1	000011	000011
112	Trave	24	50	120	22	1	000011	000011
113	Trave	21	59	120	22	1		
114	Trave	59	34	120	22	1		
115	Trave	8	20	120	22	1		
116	Trave	20	9	120	22	1		
117	Trave	20	61	120	22	1		
118	Trave	48	62	120	22	1	000011	
119	Trave	62	54	120	22	1		000011
120	Trave	62	59	120	22	1		

3. MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

3.1 LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello. Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.

I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico Variab. Carico variabile generico Var. rid. Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) Neve Carico di neve
G1	carico permanente (comprensivo del peso proprio)
G2	carico permanente non strutturale e non compiutamente definito
Q	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore frequente
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi permanente
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

Elem	numero dell'elemento
Tipo	codice di comportamento S elemento utilizzato solo per scarico C elemento utilizzato per scarico e per modellazione piano rigido P elemento utilizzato come pannello M scarico monodirezionale B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
G1	carico permanente solaio (comprensivo del peso proprio)

G2	carico permanente non strutturale e non compiutamente definito
Q	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

La progettazione viene eseguita con il metodo degli stati limite. I simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
F ist, F infi	Frecce istantanee e a tempo infinito
Pos.	Ascissa del punto di verifica
Momento	Momento flettente
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
V N/M	rapporto S_d/S_u con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
Taglio	Sollecitazione di taglio
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Verif.V	rapporto S_d/S_u con sollecitazioni taglianti proporzionali: valore minore o uguale a 1 per verifica positiva
B eff	Base della sezione di cls per l'assorbimento del taglio
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni freq. [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi perm. [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica (definita come rapporto domanda/capacità) confronta le azioni sollecitanti indotte dal sisma con le resistenze secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura. Il cinematismo è riconducibile al meccanismo ad arco, descritto nel paragrafo "8.4.3 Walls arching between supports" dell' EN 1996-1-1:2022 per snellezze non superiori a 20. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti

indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura. Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

- **Tamponatura Antiespulsione ordinaria Poroton® Danesi** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [52].
- **Tamponatura Antiespulsione armata Poroton® Danesi** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.

(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. EC6	Rapporto p_a/p_r (valore minore o uguale a 1 per verifica positiva) con valutazione della pressione resistente p_r per meccanismo ad arco secondo EN 1996-1-1:2022
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzzeria
Ver. DNS	Rapporto p_a/p_r (valore minore o uguale a 1 per verifica positiva) con valutazione della pressione resistente p_r per meccanismo ad arco per Danesi
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
p_a	Pressione sulla parete causata dall'azione sismica
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
R.Drift	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento (utilizzato in Ver. EC6 e Ver. DNS)

ID Arch.	Tipo	G1	G2	Q	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2		
8	Neve	daN/cm2 2.10e-03	daN/cm2 4.25e-03	daN/cm2 1.51e-02		1.00	0.50	0.20	0.0	0.0		
1.00	Variab.						0.0	0.0	0.0			
Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1	G2	Q	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..
						daN/cm2	daN/cm2	daN/cm2				
1	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	45	41	3	32 28
2	SM	8	m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	40	43	42	57
3	SM	8	m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	32	3	4	
4	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	16	9	8	13
5	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	9	15	8	
6	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	7	1	28	6
7	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	7	2	12	
8	SM	8	m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	28	32	4	2 6

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9	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	16	18	27	9
10	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	9	27	15	
11	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	18	31	39	27
12	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	27	39	29	15
13	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	40	54	48	43
14	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	60	54	21	
15	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	8	22	17	13
16	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	8	15	22	
17	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	41	51	42	43
18	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	34	40	57	55
19	SM	8 m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	41	46	51	
20	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	52	56	60	21
21	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	54	40	34	
22	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	12	2	39	31
23	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	3	41	43	48
24	SM	8 m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	52	21	34	55
25	SM	8 m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	21	54	34	
26	SM	8 m=120	1.0	90.0	2.10e-03	4.25e-03	1.51e-02	45	28	1	46
27	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	29	39	2	4
28	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	56	58	50	60
29	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	22	35	30	17
30	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	15	29	35	22
31	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	50	48	54	60
32	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	11	24	50	58
33	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	24	3	48	50
34	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	5	19	24	11
35	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	19	4	3	24
36	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	30	35	19	5
37	SM	8 m=120	1.0	0.0	2.10e-03	4.25e-03	1.51e-02	35	29	4	19

4. RISULTATI NODALI

4.1 LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Z	Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione
			cm	cm	cm			
	1	1	0.0	0.0	0.0	0.0	-4.74e-04	0.0
	1	5	0.0	0.0	0.0	0.0	-3.46e-04	0.0
	1	7	0.0	0.0	0.0	0.0	-3.46e-04	0.0
	1	9	0.0	0.0	0.0	0.0	-3.46e-04	0.0
	2	2	-6.39e-03	0.31	-0.80	2.17e-03	1.90e-03	6.37e-04
	2	6	-4.39e-03	0.21	-0.55	1.49e-03	1.30e-03	4.38e-04
	2	8	-2.30e-03	0.11	-0.29	7.64e-04	6.85e-04	2.32e-04
	2	9	-1.78e-03	0.08	-0.22	5.84e-04	5.31e-04	1.80e-04
	3	2	-9.67e-04	-6.42e-03	-0.09	9.98e-04	-1.58e-03	3.86e-04
	3	6	-6.90e-04	-4.43e-03	-0.06	6.83e-04	-1.08e-03	2.64e-04
	3	8	-4.74e-04	-2.41e-03	-0.03	3.44e-04	-5.25e-04	1.31e-04
	3	9	-4.20e-04	-1.91e-03	-0.03	2.60e-04	-3.87e-04	9.79e-05
	4	2	-9.67e-04	6.42e-03	-0.09	-9.98e-04	-1.58e-03	-3.86e-04
	4	6	-6.90e-04	4.43e-03	-0.06	-6.83e-04	-1.08e-03	-2.64e-04
	4	8	-4.74e-04	2.41e-03	-0.03	-3.44e-04	-5.25e-04	-1.31e-04
	4	9	-4.20e-04	1.91e-03	-0.03	-2.60e-04	-3.87e-04	-9.79e-05
	5	1	0.0	0.0	0.0	0.0	0.0	0.0
	5	5	0.0	0.0	0.0	0.0	0.0	0.0
	5	7	0.0	0.0	0.0	0.0	0.0	0.0
	5	9	0.0	0.0	0.0	0.0	0.0	0.0
	6	1	0.0	0.0	0.0	0.0	-6.09e-04	-2.71e-04
	6	5	0.0	0.0	0.0	0.0	-4.40e-04	-1.95e-04
	6	7	0.0	0.0	0.0	0.0	-4.40e-04	-1.95e-04
	6	9	0.0	0.0	0.0	0.0	-4.40e-04	-1.95e-04
	7	1	0.0	0.0	0.0	0.0	5.82e-06	-1.52e-05
	7	5	0.0	0.0	0.0	0.0	4.70e-06	-1.12e-05
	7	7	0.0	0.0	0.0	0.0	4.70e-06	-1.12e-05
	7	9	0.0	0.0	0.0	0.0	4.70e-06	-1.12e-05
	8	2	0.13	0.03	-0.44	2.47e-03	2.11e-04	9.46e-04
	8	6	0.09	0.02	-0.30	1.69e-03	1.46e-04	6.49e-04
	8	8	0.05	0.01	-0.16	8.64e-04	7.91e-05	3.37e-04
	8	9	0.04	7.79e-03	-0.12	6.57e-04	6.24e-05	2.59e-04
	9	2	0.13	0.30	-0.45	9.19e-04	1.26e-03	-2.59e-04
	9	6	0.09	0.20	-0.31	6.27e-04	8.67e-04	-1.77e-04
	9	8	0.05	0.11	-0.16	3.10e-04	4.49e-04	-9.04e-05
	9	9	0.04	0.08	-0.12	2.31e-04	3.44e-04	-6.87e-05
	10	1	0.0	0.0	0.0	0.0	0.0	0.0
	10	5	0.0	0.0	0.0	0.0	0.0	0.0
	10	7	0.0	0.0	0.0	0.0	0.0	0.0
	10	9	0.0	0.0	0.0	0.0	0.0	0.0
	11	1	0.0	0.0	0.0	0.0	0.0	0.0
	11	5	0.0	0.0	0.0	0.0	0.0	0.0
	11	7	0.0	0.0	0.0	0.0	0.0	0.0
	11	9	0.0	0.0	0.0	0.0	0.0	0.0
	12	1	0.0	0.0	0.0	0.0	0.0	0.0
	12	5	0.0	0.0	0.0	0.0	0.0	0.0

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12	7	0.0	0.0	0.0	0.0	0.0	0.0
12	9	0.0	0.0	0.0	0.0	0.0	0.0
13	1	0.0	0.0	0.0	-7.33e-04	8.31e-04	-5.93e-05
13	5	0.0	0.0	0.0	-5.27e-04	5.97e-04	-4.27e-05
13	7	0.0	0.0	0.0	-5.27e-04	5.97e-04	-4.27e-05
13	9	0.0	0.0	0.0	-5.27e-04	5.97e-04	-4.27e-05
14	2	0.28	-0.13	-0.09	-1.04e-03	-1.91e-03	-1.01e-04
14	6	0.19	-0.09	-0.06	-7.12e-04	-1.30e-03	-6.87e-05
14	8	0.09	-0.05	-0.04	-3.59e-04	-6.35e-04	-3.40e-05
14	9	0.07	-0.03	-0.03	-2.70e-04	-4.68e-04	-2.53e-05
15	2	-4.04e-05	0.04	-0.14	2.41e-03	1.18e-04	1.14e-03
15	6	-2.76e-05	0.03	-0.09	1.65e-03	8.16e-05	7.81e-04
15	8	-1.38e-05	0.01	-0.05	8.47e-04	4.36e-05	4.08e-04
15	9	-1.04e-05	0.01	-0.04	6.46e-04	3.41e-05	3.14e-04
16	1	0.0	0.0	0.0	-8.51e-04	-7.11e-04	-1.54e-04
16	5	0.0	0.0	0.0	-6.12e-04	-5.11e-04	-1.11e-04
16	7	0.0	0.0	0.0	-6.12e-04	-5.11e-04	-1.11e-04
16	9	0.0	0.0	0.0	-6.12e-04	-5.11e-04	-1.11e-04
17	1	0.0	0.0	0.0	0.0	0.0	0.0
17	5	0.0	0.0	0.0	0.0	0.0	0.0
17	7	0.0	0.0	0.0	0.0	0.0	0.0
17	9	0.0	0.0	0.0	0.0	0.0	0.0
18	1	0.0	0.0	0.0	0.0	0.0	0.0
18	5	0.0	0.0	0.0	0.0	0.0	0.0
18	7	0.0	0.0	0.0	0.0	0.0	0.0
18	9	0.0	0.0	0.0	0.0	0.0	0.0
19	2	0.10	3.14e-03	-0.31	-7.95e-04	-9.72e-04	-3.11e-04
19	6	0.07	2.16e-03	-0.21	-5.44e-04	-6.64e-04	-2.13e-04
19	8	0.03	1.12e-03	-0.11	-2.74e-04	-3.30e-04	-1.06e-04
19	9	0.03	8.62e-04	-0.08	-2.06e-04	-2.46e-04	-7.96e-05
20	2	-8.23e-03	0.40	-0.15	2.49e-03	1.27e-04	1.05e-03
20	6	-5.66e-03	0.27	-0.10	1.70e-03	8.71e-05	7.22e-04
20	8	-2.98e-03	0.14	-0.06	8.74e-04	4.56e-05	3.76e-04
20	9	-2.31e-03	0.11	-0.04	6.66e-04	3.52e-05	2.90e-04
21	2	0.13	-0.03	-0.44	-2.47e-03	2.11e-04	-9.46e-04
21	6	0.09	-0.02	-0.30	-1.69e-03	1.46e-04	-6.49e-04
21	8	0.05	-0.01	-0.16	-8.64e-04	7.91e-05	-3.37e-04
21	9	0.04	-7.79e-03	-0.12	-6.57e-04	6.24e-05	-2.59e-04
22	2	0.01	0.03	-0.13	1.82e-03	1.11e-04	8.59e-04
22	6	8.02e-03	0.02	-0.09	1.25e-03	7.48e-05	5.90e-04
22	8	4.38e-03	9.21e-03	-0.05	6.40e-04	3.19e-05	3.07e-04
22	9	3.47e-03	7.07e-03	-0.04	4.88e-04	2.11e-05	2.36e-04
23	2	0.09	0.02	0.14	6.65e-04	-1.08e-03	-1.51e-04
23	6	0.06	0.01	0.10	4.55e-04	-7.36e-04	-1.03e-04
23	8	0.03	6.43e-03	0.04	2.30e-04	-3.52e-04	-5.20e-05
23	9	0.02	4.76e-03	0.03	1.73e-04	-2.56e-04	-3.92e-05
24	2	0.10	-3.14e-03	-0.31	7.95e-04	-9.72e-04	3.11e-04
24	6	0.07	-2.16e-03	-0.21	5.44e-04	-6.64e-04	2.13e-04
24	8	0.03	-1.12e-03	-0.11	2.74e-04	-3.30e-04	1.06e-04
24	9	0.03	-8.62e-04	-0.08	2.06e-04	-2.46e-04	7.96e-05
25	2	4.78e-04	0.0	9.71e-03	0.0	-4.93e-04	0.0
25	6	3.33e-04	0.0	6.27e-03	0.0	-3.40e-04	0.0
25	8	1.95e-04	0.0	1.51e-03	0.0	-1.86e-04	0.0
25	9	1.60e-04	0.0	3.18e-04	0.0	-1.47e-04	0.0
26	1	0.0	9.97e-03	0.0	-7.92e-04	-2.86e-05	5.09e-05
26	2	0.0	0.03	0.0	-2.07e-03	-7.47e-05	1.33e-04
26	5	0.0	7.15e-03	0.0	-5.69e-04	-2.06e-05	3.66e-05
26	6	0.0	0.02	0.0	-1.42e-03	-5.13e-05	9.11e-05
26	7	0.0	7.15e-03	0.0	-5.69e-04	-2.06e-05	3.66e-05
26	8	0.0	9.35e-03	0.0	-7.40e-04	-2.67e-05	4.75e-05
26	9	0.0	7.15e-03	0.0	-5.69e-04	-2.06e-05	3.66e-05
27	2	-0.02	0.30	-0.14	1.82e-03	-2.07e-05	3.83e-04
27	6	-0.01	0.20	-0.10	1.25e-03	-1.26e-05	2.63e-04
27	8	-6.41e-03	0.11	-0.05	6.40e-04	0.0	1.38e-04
27	9	-5.04e-03	0.08	-0.04	4.88e-04	4.25e-06	1.07e-04
28	1	0.0	0.0	0.0	0.0	6.10e-04	0.0
28	5	0.0	0.0	0.0	0.0	4.31e-04	0.0
28	7	0.0	0.0	0.0	0.0	4.31e-04	0.0
28	9	0.0	0.0	0.0	0.0	4.31e-04	0.0
29	2	-1.13e-04	0.03	-0.12	1.99e-03	-4.19e-04	9.84e-04
29	6	-7.77e-05	0.02	-0.08	1.36e-03	-2.85e-04	6.76e-04
29	8	-4.05e-05	0.01	-0.04	7.05e-04	-1.35e-04	3.52e-04
29	9	-3.12e-05	8.07e-03	-0.03	5.40e-04	-9.82e-05	2.72e-04
30	1	0.0	0.0	0.0	0.0	0.0	0.0
30	5	0.0	0.0	0.0	0.0	0.0	0.0
30	7	0.0	0.0	0.0	0.0	0.0	0.0

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30	9	0.0	0.0	0.0	0.0	0.0	0.0
31	1	0.0	0.0	0.0	0.0	0.0	0.0
31	5	0.0	0.0	0.0	0.0	0.0	0.0
31	7	0.0	0.0	0.0	0.0	0.0	0.0
31	9	0.0	0.0	0.0	0.0	0.0	0.0
32	2	9.57e-04	0.0	-0.08	0.0	-3.50e-04	0.0
32	6	6.67e-04	0.0	-0.06	0.0	-2.38e-04	0.0
32	8	3.89e-04	0.0	-0.03	0.0	-1.12e-04	0.0
32	9	3.20e-04	0.0	-0.03	0.0	-8.04e-05	0.0
33	2	0.06	0.33	-0.13	1.86e-03	-4.16e-04	1.16e-03
33	6	0.04	0.22	-0.09	1.28e-03	-2.83e-04	7.96e-04
33	8	0.02	0.12	-0.05	6.61e-04	-1.35e-04	4.15e-04
33	9	0.01	0.09	-0.04	5.07e-04	-9.75e-05	3.20e-04
34	2	0.13	-0.30	-0.45	-9.19e-04	1.26e-03	2.59e-04
34	6	0.09	-0.20	-0.31	-6.27e-04	8.67e-04	1.77e-04
34	8	0.05	-0.11	-0.16	-3.10e-04	4.49e-04	9.04e-05
34	9	0.04	-0.08	-0.12	-2.31e-04	3.44e-04	6.87e-05
35	2	0.03	0.02	-0.17	1.43e-03	-1.69e-04	7.00e-04
35	6	0.02	0.01	-0.12	9.83e-04	-1.16e-04	4.81e-04
35	8	0.01	5.37e-03	-0.06	5.08e-04	-6.22e-05	2.51e-04
35	9	8.35e-03	4.13e-03	-0.05	3.89e-04	-4.87e-05	1.93e-04
36	2	0.09	-0.02	0.18	-4.27e-04	1.09e-04	1.95e-04
36	6	0.06	-0.02	0.12	-2.93e-04	7.54e-05	1.33e-04
36	8	0.03	-8.00e-03	0.05	-1.48e-04	4.07e-05	6.68e-05
36	9	0.02	-5.96e-03	0.04	-1.12e-04	3.20e-05	5.02e-05
37	2	0.09	-0.02	0.14	-6.65e-04	-1.08e-03	1.51e-04
37	6	0.06	-0.01	0.10	-4.55e-04	-7.36e-04	1.03e-04
37	8	0.03	-6.43e-03	0.04	-2.30e-04	-3.52e-04	5.20e-05
37	9	0.02	-4.76e-03	0.03	-1.73e-04	-2.56e-04	3.92e-05
38	2	0.09	0.02	0.18	4.27e-04	1.09e-04	-1.95e-04
38	6	0.06	0.02	0.12	2.93e-04	7.54e-05	-1.33e-04
38	8	0.03	8.00e-03	0.05	1.48e-04	4.07e-05	-6.68e-05
38	9	0.02	5.96e-03	0.04	1.12e-04	3.20e-05	-5.02e-05
39	2	9.26e-03	0.30	-0.07	1.54e-03	-2.71e-04	5.51e-04
39	6	6.20e-03	0.20	-0.05	1.06e-03	-1.82e-04	3.78e-04
39	8	2.51e-03	0.11	-0.03	5.48e-04	-7.95e-05	1.97e-04
39	9	1.59e-03	0.08	-0.02	4.20e-04	-5.39e-05	1.52e-04
40	2	-0.02	-0.30	-0.14	-1.82e-03	-2.07e-05	-3.83e-04
40	6	-0.01	-0.20	-0.10	-1.25e-03	-1.26e-05	-2.63e-04
40	8	-6.41e-03	-0.11	-0.05	-6.40e-04	0.0	-1.38e-04
40	9	-5.04e-03	-0.08	-0.04	-4.88e-04	4.24e-06	-1.07e-04
41	2	-6.39e-03	-0.31	-0.80	-2.17e-03	1.90e-03	-6.37e-04
41	6	-4.39e-03	-0.21	-0.55	-1.49e-03	1.30e-03	-4.38e-04
41	8	-2.30e-03	-0.11	-0.29	-7.64e-04	6.85e-04	-2.32e-04
41	9	-1.78e-03	-0.08	-0.22	-5.84e-04	5.31e-04	-1.80e-04
42	1	0.0	0.0	0.0	0.0	0.0	0.0
42	5	0.0	0.0	0.0	0.0	0.0	0.0
42	7	0.0	0.0	0.0	0.0	0.0	0.0
42	9	0.0	0.0	0.0	0.0	0.0	0.0
43	2	9.27e-03	-0.30	-0.07	-1.54e-03	-2.71e-04	-5.51e-04
43	6	6.20e-03	-0.20	-0.05	-1.06e-03	-1.82e-04	-3.78e-04
43	8	2.51e-03	-0.11	-0.03	-5.48e-04	-7.96e-05	-1.97e-04
43	9	1.59e-03	-0.08	-0.02	-4.20e-04	-5.39e-05	-1.52e-04
44	2	0.06	-0.33	-0.13	-1.86e-03	-4.16e-04	-1.16e-03
44	6	0.04	-0.22	-0.09	-1.28e-03	-2.83e-04	-7.96e-04
44	8	0.02	-0.12	-0.05	-6.61e-04	-1.35e-04	-4.15e-04
44	9	0.01	-0.09	-0.04	-5.07e-04	-9.75e-05	-3.20e-04
45	1	0.0	0.0	0.0	0.0	-6.09e-04	2.71e-04
45	5	0.0	0.0	0.0	0.0	-4.40e-04	1.95e-04
45	7	0.0	0.0	0.0	0.0	-4.40e-04	1.95e-04
45	9	0.0	0.0	0.0	0.0	-4.40e-04	1.95e-04
46	1	0.0	0.0	0.0	0.0	5.82e-06	1.52e-05
46	5	0.0	0.0	0.0	0.0	4.70e-06	1.12e-05
46	7	0.0	0.0	0.0	0.0	4.70e-06	1.12e-05
46	9	0.0	0.0	0.0	0.0	4.70e-06	1.12e-05
47	1	0.0	-9.97e-03	0.0	7.92e-04	-2.86e-05	-5.09e-05
47	2	0.0	-0.03	0.0	2.07e-03	-7.47e-05	-1.33e-04
47	5	0.0	-7.15e-03	0.0	5.69e-04	-2.06e-05	-3.66e-05
47	6	0.0	-0.02	0.0	1.42e-03	-5.13e-05	-9.11e-05
47	7	0.0	-7.15e-03	0.0	5.69e-04	-2.06e-05	-3.66e-05
47	8	0.0	-9.35e-03	0.0	7.40e-04	-2.67e-05	-4.75e-05
47	9	0.0	-7.15e-03	0.0	5.69e-04	-2.06e-05	-3.66e-05
48	2	-1.13e-04	-0.03	-0.12	-1.99e-03	-4.19e-04	-9.84e-04
48	6	-7.78e-05	-0.02	-0.08	-1.36e-03	-2.85e-04	-6.76e-04
48	8	-4.05e-05	-0.01	-0.04	-7.05e-04	-1.35e-04	-3.52e-04
48	9	-3.12e-05	-8.07e-03	-0.03	-5.40e-04	-9.82e-05	-2.72e-04

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49	1	0.0	0.0	0.0	0.0	0.0	0.0
49	5	0.0	0.0	0.0	0.0	0.0	0.0
49	7	0.0	0.0	0.0	0.0	0.0	0.0
49	9	0.0	0.0	0.0	0.0	0.0	0.0
50	2	0.03	-0.02	-0.17	-1.43e-03	-1.69e-04	-7.00e-04
50	6	0.02	-0.01	-0.12	-9.83e-04	-1.16e-04	-4.81e-04
50	8	0.01	-5.37e-03	-0.06	-5.08e-04	-6.22e-05	-2.51e-04
50	9	8.35e-03	-4.13e-03	-0.05	-3.89e-04	-4.87e-05	-1.93e-04
51	1	0.0	0.0	0.0	0.0	0.0	0.0
51	5	0.0	0.0	0.0	0.0	0.0	0.0
51	7	0.0	0.0	0.0	0.0	0.0	0.0
51	9	0.0	0.0	0.0	0.0	0.0	0.0
52	1	0.0	0.0	0.0	7.33e-04	8.31e-04	5.93e-05
52	5	0.0	0.0	0.0	5.27e-04	5.97e-04	4.27e-05
52	7	0.0	0.0	0.0	5.27e-04	5.97e-04	4.27e-05
52	9	0.0	0.0	0.0	5.27e-04	5.97e-04	4.27e-05
53	2	0.28	0.13	-0.09	1.04e-03	-1.91e-03	1.01e-04
53	6	0.19	0.09	-0.06	7.12e-04	-1.30e-03	6.87e-05
53	8	0.09	0.05	-0.04	3.59e-04	-6.35e-04	3.40e-05
53	9	0.07	0.03	-0.03	2.70e-04	-4.68e-04	2.53e-05
54	2	-4.05e-05	-0.04	-0.14	-2.41e-03	1.18e-04	-1.14e-03
54	6	-2.77e-05	-0.03	-0.09	-1.65e-03	8.15e-05	-7.81e-04
54	8	-1.39e-05	-0.01	-0.05	-8.47e-04	4.36e-05	-4.08e-04
54	9	-1.04e-05	-0.01	-0.04	-6.46e-04	3.41e-05	-3.14e-04
55	1	0.0	0.0	0.0	8.51e-04	-7.11e-04	1.54e-04
55	5	0.0	0.0	0.0	6.12e-04	-5.11e-04	1.11e-04
55	7	0.0	0.0	0.0	6.12e-04	-5.11e-04	1.11e-04
55	9	0.0	0.0	0.0	6.12e-04	-5.11e-04	1.11e-04
56	1	0.0	0.0	0.0	0.0	0.0	0.0
56	5	0.0	0.0	0.0	0.0	0.0	0.0
56	7	0.0	0.0	0.0	0.0	0.0	0.0
56	9	0.0	0.0	0.0	0.0	0.0	0.0
57	1	0.0	0.0	0.0	0.0	0.0	0.0
57	5	0.0	0.0	0.0	0.0	0.0	0.0
57	7	0.0	0.0	0.0	0.0	0.0	0.0
57	9	0.0	0.0	0.0	0.0	0.0	0.0
58	1	0.0	0.0	0.0	0.0	0.0	0.0
58	5	0.0	0.0	0.0	0.0	0.0	0.0
58	7	0.0	0.0	0.0	0.0	0.0	0.0
58	9	0.0	0.0	0.0	0.0	0.0	0.0
59	2	-8.23e-03	-0.40	-0.15	-2.49e-03	1.27e-04	-1.05e-03
59	6	-5.66e-03	-0.27	-0.10	-1.70e-03	8.71e-05	-7.22e-04
59	8	-2.98e-03	-0.14	-0.06	-8.74e-04	4.55e-05	-3.76e-04
59	9	-2.31e-03	-0.11	-0.04	-6.66e-04	3.51e-05	-2.90e-04
60	2	0.01	-0.03	-0.13	-1.82e-03	1.11e-04	-8.59e-04
60	6	8.02e-03	-0.02	-0.09	-1.25e-03	7.48e-05	-5.90e-04
60	8	4.38e-03	-9.21e-03	-0.05	-6.40e-04	3.19e-05	-3.07e-04
60	9	3.47e-03	-7.07e-03	-0.04	-4.88e-04	2.11e-05	-2.36e-04
61	2	-0.04	0.04	0.13	1.51e-03	1.38e-04	2.24e-04
61	6	-0.03	0.03	0.09	1.03e-03	9.48e-05	1.54e-04
61	8	-0.01	0.01	0.04	5.30e-04	5.02e-05	8.01e-05
61	9	-0.01	0.01	0.03	4.05e-04	3.90e-05	6.17e-05
62	2	-0.04	-0.04	0.13	-1.51e-03	1.38e-04	-2.24e-04
62	6	-0.03	-0.03	0.09	-1.03e-03	9.48e-05	-1.54e-04
62	8	-0.01	-0.01	0.04	-5.30e-04	5.02e-05	-8.01e-05
62	9	-0.01	-0.01	0.03	-4.05e-04	3.90e-05	-6.17e-05

Z	Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione
		-0.04	-0.40	-0.80	-2.49e-03	-1.91e-03	-1.16e-03
		0.28	0.40	0.18	2.49e-03	1.90e-03	1.16e-03

RZ	Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione
			daN	daN	daN	daN cm	daN cm	daN cm
	1	1	-219.27	3.58e-05	-1354.12	0.01	0.0	0.0
	1	2	-510.93	9.33e-05	-2106.92	0.03	0.0	0.0
	1	3	-147.67	2.34e-05	-987.43	7.70e-03	0.0	0.0
	1	5	-159.54	2.57e-05	-1018.07	8.47e-03	0.0	0.0
	1	6	-353.98	6.41e-05	-1519.93	0.02	0.0	0.0
	1	7	-159.54	2.57e-05	-1018.07	8.47e-03	0.0	0.0
	1	8	-198.42	3.34e-05	-1118.44	0.01	0.0	0.0
	1	9	-159.54	2.57e-05	-1018.07	8.47e-03	0.0	0.0
	5	1	-3172.80	-1.52	-2538.57	2.956e+04	0.0	-293.70
	5	2	-7545.25	-3.54	-6121.20	8.562e+04	0.0	-809.52

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5	3	-2125.78	-1.02	-1694.78	1.870e+04	0.0	-188.78
5	5	-2303.73	-1.11	-1840.59	2.098e+04	0.0	-209.78
5	6	-5218.70	-2.45	-4229.01	5.836e+04	0.0	-553.66
5	7	-2303.73	-1.11	-1840.59	2.098e+04	0.0	-209.78
5	8	-2886.73	-1.38	-2318.27	2.846e+04	0.0	-278.55
5	9	-2303.73	-1.11	-1840.59	2.098e+04	0.0	-209.78
6	1	-927.31	142.30	-1231.00	2109.42	0.0	0.0
6	2	-2397.13	368.75	-3494.01	5615.09	0.0	0.0
6	3	-607.48	93.15	-783.98	1370.21	0.0	0.0
6	5	-667.30	102.37	-876.08	1512.89	0.0	0.0
6	6	-1647.18	253.34	-2384.75	3850.00	0.0	0.0
6	7	-667.30	102.37	-876.08	1512.89	0.0	0.0
6	8	-863.28	132.56	-1177.81	1980.31	0.0	0.0
6	9	-667.30	102.37	-876.08	1512.89	0.0	0.0
7	1	116.72	-69.43	-1885.97	-2.585e+04	0.0	0.0
7	2	265.59	-180.40	-3154.46	-6.863e+04	0.0	0.0
7	3	79.07	-45.42	-1359.41	-1.681e+04	0.0	0.0
7	5	85.12	-49.94	-1411.04	-1.855e+04	0.0	0.0
7	6	184.37	-123.91	-2256.69	-4.707e+04	0.0	0.0
7	7	85.12	-49.94	-1411.04	-1.855e+04	0.0	0.0
7	8	104.97	-64.73	-1580.17	-2.425e+04	0.0	0.0
7	9	85.12	-49.94	-1411.04	-1.855e+04	0.0	0.0
10	1	2936.72	-13.20	-1413.19	-541.61	0.0	232.12
10	2	7104.32	-36.63	-2965.72	-1484.89	0.0	636.38
10	3	1958.93	-8.47	-975.28	-348.70	0.0	149.44
10	5	2128.55	-9.42	-1038.47	-387.09	0.0	165.90
10	6	4906.94	-25.04	-2073.49	-1015.95	0.0	435.41
10	7	2128.55	-9.42	-1038.47	-387.09	0.0	165.90
10	8	2684.23	-12.55	-1245.47	-512.86	0.0	219.80
10	9	2128.55	-9.42	-1038.47	-387.09	0.0	165.90
11	1	-3172.80	1.52	-2538.57	-2.956e+04	0.0	293.70
11	2	-7545.25	3.54	-6121.20	-8.562e+04	0.0	809.52
11	3	-2125.78	1.02	-1694.78	-1.870e+04	0.0	188.78
11	5	-2303.73	1.11	-1840.59	-2.098e+04	0.0	209.78
11	6	-5218.70	2.45	-4229.01	-5.836e+04	0.0	553.66
11	7	-2303.73	1.11	-1840.59	-2.098e+04	0.0	209.78
11	8	-2886.73	1.38	-2318.27	-2.846e+04	0.0	278.55
11	9	-2303.73	1.11	-1840.59	-2.098e+04	0.0	209.78
12	2	2621.61	-2476.69	-3816.71	-4.650e+04	4.742e+04	2612.30
12	3	704.64	-670.11	-1241.93	-2.653e+04	2.551e+04	1041.68
12	5	768.11	-729.86	-1323.88	-2.697e+04	2.604e+04	1088.50
12	6	1807.84	-1708.61	-2666.35	-3.430e+04	3.473e+04	1855.45
12	7	768.11	-729.86	-1323.88	-2.697e+04	2.604e+04	1088.50
12	8	976.06	-925.61	-1592.37	-2.844e+04	2.778e+04	1241.89
12	9	768.11	-729.86	-1323.88	-2.697e+04	2.604e+04	1088.50
13	1	-860.86	-892.98	-890.72	0.0	0.0	0.0
13	2	-2186.37	-2268.96	-2210.91	0.0	0.0	0.0
13	3	-566.76	-587.84	-590.11	0.0	0.0	0.0
13	5	-620.71	-643.83	-643.84	0.0	0.0	0.0
13	6	-1504.38	-1561.15	-1523.96	0.0	0.0	0.0
13	7	-620.71	-643.83	-643.84	0.0	0.0	0.0
13	8	-797.44	-827.30	-819.86	0.0	0.0	0.0
13	9	-620.71	-643.83	-643.84	0.0	0.0	0.0
16	1	855.81	-825.92	-873.05	0.0	0.0	0.0
16	2	2173.77	-2095.26	-2165.15	0.0	0.0	0.0
16	3	563.42	-543.93	-578.54	0.0	0.0	0.0
16	5	617.05	-595.58	-631.12	0.0	0.0	0.0
16	6	1495.70	-1441.81	-1492.53	0.0	0.0	0.0
16	7	617.05	-595.58	-631.12	0.0	0.0	0.0
16	8	792.78	-764.83	-803.40	0.0	0.0	0.0
16	9	617.05	-595.58	-631.12	0.0	0.0	0.0
17	2	-1.129e+04	1.33	-7567.14	-8675.99	1662.98	3912.80
17	3	-3052.20	-0.65	-2068.89	-464.65	415.68	979.59
17	5	-3324.63	-0.57	-2250.41	-765.04	457.46	1077.81
17	6	-7787.31	0.76	-5223.80	-5685.74	1141.80	2686.76
17	7	-3324.63	-0.57	-2250.41	-765.04	457.46	1077.81
17	8	-4217.17	-0.30	-2845.08	-1749.18	594.32	1399.60
17	9	-3324.63	-0.57	-2250.41	-765.04	457.46	1077.81
18	2	1.134e+04	397.34	-7626.97	-5717.24	-1423.09	3892.95
18	3	3066.32	98.64	-2084.11	278.93	-355.57	981.16
18	5	3340.14	108.65	-2267.12	52.67	-391.33	1078.56
18	6	7825.50	272.70	-5264.93	-3653.63	-977.07	2674.17
18	7	3340.14	108.65	-2267.12	52.67	-391.33	1078.56
18	8	4237.21	141.46	-2866.68	-688.59	-508.47	1397.69
18	9	3340.14	108.65	-2267.12	52.67	-391.33	1078.56
26	1	0.0	0.0	-825.01	0.0	0.0	0.0

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26	2	0.0	0.0	-2312.33	0.0	0.0	0.0
26	3	0.0	0.0	-527.53	0.0	0.0	0.0
26	5	0.0	0.0	-588.06	0.0	0.0	0.0
26	6	0.0	0.0	-1579.61	0.0	0.0	0.0
26	7	0.0	0.0	-588.06	0.0	0.0	0.0
26	8	0.0	0.0	-786.37	0.0	0.0	0.0
26	9	0.0	0.0	-588.06	0.0	0.0	0.0
28	1	188.57	-1.72e-05	-1578.46	-1.02e-04	0.0	0.0
28	2	412.65	-4.34e-05	-4622.67	-2.87e-04	0.0	0.0
28	3	128.92	-1.13e-05	-995.01	-6.54e-05	0.0	0.0
28	5	138.04	-1.24e-05	-1118.90	-7.29e-05	0.0	0.0
28	6	287.43	-2.99e-05	-3148.37	-1.96e-04	0.0	0.0
28	7	138.04	-1.24e-05	-1118.90	-7.29e-05	0.0	0.0
28	8	167.92	-1.59e-05	-1524.79	-9.76e-05	0.0	0.0
28	9	138.04	-1.24e-05	-1118.90	-7.29e-05	0.0	0.0
30	2	-1.018e+04	-6.53	-7439.44	-2.304e+04	0.0	1510.93
30	3	-2611.24	-2.20	-1943.01	-4939.86	0.0	373.52
30	4	-8820.24	-5.56	-6435.98	-2.014e+04	0.0	1311.11
30	5	-2863.93	-2.34	-2125.87	-5558.27	0.0	411.68
30	6	-7003.27	-4.57	-5121.18	-1.569e+04	0.0	1036.74
30	7	-2863.93	-2.34	-2125.87	-5558.27	0.0	411.68
30	8	-3691.80	-2.78	-2724.93	-7584.33	0.0	536.69
30	9	-2863.93	-2.34	-2125.87	-5558.27	0.0	411.68
31	1	3959.32	155.62	-2505.42	3.341e+04	0.0	-431.23
31	2	1.014e+04	407.38	-6158.34	9.642e+04	0.0	-1140.52
31	3	2600.47	101.58	-1664.23	2.117e+04	0.0	-280.65
31	5	2852.08	111.83	-1812.89	2.373e+04	0.0	-309.51
31	6	6973.76	279.67	-4248.17	6.573e+04	0.0	-782.37
31	7	2852.08	111.83	-1812.89	2.373e+04	0.0	-309.51
31	8	3676.42	145.40	-2299.95	3.213e+04	0.0	-404.08
31	9	2852.08	111.83	-1812.89	2.373e+04	0.0	-309.51
42	2	1.014e+04	-407.38	-6158.34	-9.642e+04	0.0	1140.45
42	3	2600.47	-101.58	-1664.23	-2.117e+04	0.0	280.63
42	5	2852.08	-111.83	-1812.89	-2.373e+04	0.0	309.49
42	6	6973.76	-279.67	-4248.17	-6.573e+04	0.0	782.32
42	7	2852.08	-111.83	-1812.89	-2.373e+04	0.0	309.49
42	8	3676.42	-145.40	-2299.95	-3.213e+04	0.0	404.06
42	9	2852.08	-111.83	-1812.89	-2.373e+04	0.0	309.49
45	1	-927.31	-142.30	-1231.00	-2109.42	0.0	0.0
45	2	-2397.14	-368.75	-3494.01	-5615.09	0.0	0.0
45	3	-607.48	-93.15	-783.98	-1370.21	0.0	0.0
45	5	-667.30	-102.37	-876.08	-1512.88	0.0	0.0
45	6	-1647.19	-253.34	-2384.75	-3850.00	0.0	0.0
45	7	-667.30	-102.37	-876.08	-1512.88	0.0	0.0
45	8	-863.28	-132.56	-1177.81	-1980.31	0.0	0.0
45	9	-667.30	-102.37	-876.08	-1512.88	0.0	0.0
46	1	116.72	69.43	-1885.97	2.585e+04	0.0	0.0
46	2	265.59	180.40	-3154.46	6.863e+04	0.0	0.0
46	3	79.07	45.42	-1359.41	1.681e+04	0.0	0.0
46	5	85.12	49.94	-1411.04	1.855e+04	0.0	0.0
46	6	184.37	123.91	-2256.69	4.707e+04	0.0	0.0
46	7	85.12	49.94	-1411.04	1.855e+04	0.0	0.0
46	8	104.97	64.73	-1580.17	2.425e+04	0.0	0.0
46	9	85.12	49.94	-1411.04	1.855e+04	0.0	0.0
47	1	0.0	0.0	-825.01	0.0	0.0	0.0
47	2	0.0	0.0	-2312.33	0.0	0.0	0.0
47	3	0.0	0.0	-527.53	0.0	0.0	0.0
47	5	0.0	0.0	-588.06	0.0	0.0	0.0
47	6	0.0	0.0	-1579.61	0.0	0.0	0.0
47	7	0.0	0.0	-588.06	0.0	0.0	0.0
47	8	0.0	0.0	-786.37	0.0	0.0	0.0
47	9	0.0	0.0	-588.06	0.0	0.0	0.0
49	1	2936.72	13.20	-1413.19	541.61	0.0	-232.12
49	2	7104.32	36.63	-2965.73	1484.89	0.0	-636.38
49	3	1958.94	8.47	-975.28	348.70	0.0	-149.44
49	5	2128.55	9.42	-1038.47	387.09	0.0	-165.90
49	6	4906.94	25.04	-2073.49	1015.95	0.0	-435.41
49	7	2128.55	9.42	-1038.47	387.09	0.0	-165.90
49	8	2684.23	12.55	-1245.47	512.86	0.0	-219.80
49	9	2128.55	9.42	-1038.47	387.09	0.0	-165.90
51	2	2621.61	2476.69	-3816.71	4.650e+04	4.742e+04	-2612.30
51	3	704.64	670.11	-1241.93	2.653e+04	2.551e+04	-1041.68
51	5	768.11	729.86	-1323.88	2.697e+04	2.604e+04	-1088.50
51	6	1807.84	1708.61	-2666.35	3.430e+04	3.473e+04	-1855.45
51	7	768.11	729.86	-1323.88	2.697e+04	2.604e+04	-1088.50
51	8	976.06	925.61	-1592.37	2.844e+04	2.778e+04	-1241.89

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RELAZIONE STRUTTURE - TABULATI

51	9	768.11	729.86	-1323.88	2.697e+04	2.604e+04	-1088.50	
52	1	-860.86	892.98	-890.72	0.0	0.0	0.0	
52	2	-2186.37	2268.97	-2210.91	0.0	0.0	0.0	
52	3	-566.76	587.84	-590.11	0.0	0.0	0.0	
52	5	-620.71	643.84	-643.84	0.0	0.0	0.0	
52	6	-1504.38	1561.16	-1523.97	0.0	0.0	0.0	
52	7	-620.71	643.84	-643.84	0.0	0.0	0.0	
52	8	-797.44	827.30	-819.86	0.0	0.0	0.0	
52	9	-620.71	643.84	-643.84	0.0	0.0	0.0	
55	1	855.81	825.92	-873.05	0.0	0.0	0.0	
55	2	2173.77	2095.26	-2165.15	0.0	0.0	0.0	
55	3	563.42	543.93	-578.54	0.0	0.0	0.0	
55	5	617.05	595.58	-631.12	0.0	0.0	0.0	
55	6	1495.70	1441.81	-1492.53	0.0	0.0	0.0	
55	7	617.05	595.58	-631.12	0.0	0.0	0.0	
55	8	792.78	764.83	-803.40	0.0	0.0	0.0	
55	9	617.05	595.58	-631.12	0.0	0.0	0.0	
56	2	-1.129e+04	-1.33	-7567.13	8675.92	1662.99	-3912.83	
56	3	-3052.21	0.65	-2068.89	464.63	415.68	-979.60	
56	5	-3324.64	0.57	-2250.41	765.02	457.46	-1077.82	
56	6	-7787.32	-0.76	-5223.80	5685.69	1141.80	-2686.78	
56	7	-3324.64	0.57	-2250.41	765.02	457.46	-1077.82	
56	8	-4217.18	0.31	-2845.08	1749.15	594.33	-1399.61	
56	9	-3324.64	0.57	-2250.41	765.02	457.46	-1077.82	
57	2	1.134e+04	-397.34	-7626.97	5717.35	-1423.08	-3892.97	
57	3	3066.32	-98.64	-2084.12	-278.90	-355.57	-981.16	
57	5	3340.14	-108.65	-2267.12	-52.64	-391.32	-1078.57	
57	6	7825.51	-272.70	-5264.93	3653.71	-977.06	-2674.18	
57	7	3340.14	-108.65	-2267.12	-52.64	-391.32	-1078.57	
57	8	4237.21	-141.46	-2866.68	688.63	-508.47	-1397.69	
57	9	3340.14	-108.65	-2267.12	-52.64	-391.32	-1078.57	
58	1	-3975.80	3.17	-2946.48	7844.18	0.0	-573.34	
58	2	-1.018e+04	6.53	-7439.45	2.304e+04	0.0	-1510.92	
58	3	-2611.24	2.20	-1943.01	4939.87	0.0	-373.52	
58	5	-2863.93	2.34	-2125.87	5558.28	0.0	-411.68	
58	6	-7003.27	4.57	-5121.18	1.569e+04	0.0	-1036.73	
58	7	-2863.93	2.34	-2125.87	5558.28	0.0	-411.68	
58	8	-3691.80	2.78	-2724.93	7584.34	0.0	-536.69	
58	9	-2863.93	2.34	-2125.87	5558.28	0.0	-411.68	
RZ	Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione	
		-1.129e+04	-2476.69	-7626.97	-9.642e+04	-1423.09	-3912.83	
		1.134e+04	2476.69	-527.53	9.642e+04	4.742e+04	3912.80	
RZ	Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione
			daN	daN	daN	daN cm	daN cm	daN cm
	1	2	-510.93	9.33e-05	-2106.92	0.03	0.0	0.0
	3	-147.67	2.34e-05	-987.43	7.70e-03	0.0	0.0	
	3	-147.67	2.34e-05	-987.43	7.70e-03	0.0	0.0	
	2	-510.93	9.33e-05	-2106.92	0.03	0.0	0.0	
	1	-219.27	3.58e-05	-1354.12	0.01	0.0	0.0	
	1	-219.27	3.58e-05	-1354.12	0.01	0.0	0.0	
	5	2	-7545.25	-3.54	-6121.20	8.562e+04	0.0	-809.52
	3	-2125.78	-1.02	-1694.78	1.870e+04	0.0	-188.78	
	3	-2125.78	-1.02	-1694.78	1.870e+04	0.0	-188.78	
	2	-7545.25	-3.54	-6121.20	8.562e+04	0.0	-809.52	
	1	-3172.80	-1.52	-2538.57	2.956e+04	0.0	-293.70	
	1	-3172.80	-1.52	-2538.57	2.956e+04	0.0	-293.70	
	6	2	-2397.13	368.75	-3494.01	5615.09	0.0	0.0
	3	-607.48	93.15	-783.98	1370.21	0.0	0.0	
	3	-607.48	93.15	-783.98	1370.21	0.0	0.0	
	2	-2397.13	368.75	-3494.01	5615.09	0.0	0.0	
	1	-927.31	142.30	-1231.00	2109.42	0.0	0.0	
	1	-927.31	142.30	-1231.00	2109.42	0.0	0.0	
	7	2	265.59	-180.40	-3154.46	-6.863e+04	0.0	0.0
	3	79.07	-45.42	-1359.41	-1.681e+04	0.0	0.0	
	2	265.59	-180.40	-3154.46	-6.863e+04	0.0	0.0	
	3	79.07	-45.42	-1359.41	-1.681e+04	0.0	0.0	
	1	116.72	-69.43	-1885.97	-2.585e+04	0.0	0.0	
	1	116.72	-69.43	-1885.97	-2.585e+04	0.0	0.0	
	10	2	7104.32	-36.63	-2965.72	-1484.89	0.0	636.38
	3	1958.93	-8.47	-975.28	-348.70	0.0	149.44	
	2	7104.32	-36.63	-2965.72	-1484.89	0.0	636.38	

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11	3	1958.93	-8.47	-975.28	-348.70	0.0	149.44
	1	2936.72	-13.20	-1413.19	-541.61	0.0	232.12
	1	2936.72	-13.20	-1413.19	-541.61	0.0	232.12
	2	-7545.25	3.54	-6121.20	-8.562e+04	0.0	809.52
	3	-2125.78	1.02	-1694.78	-1.870e+04	0.0	188.78
	2	-7545.25	3.54	-6121.20	-8.562e+04	0.0	809.52
	3	-2125.78	1.02	-1694.78	-1.870e+04	0.0	188.78
	1	-3172.80	1.52	-2538.57	-2.956e+04	0.0	293.70
12	1	-3172.80	1.52	-2538.57	-2.956e+04	0.0	293.70
	2	2621.61	-2476.69	-3816.71	-4.650e+04	4.742e+04	2612.30
	3	704.64	-670.11	-1241.93	-2.653e+04	2.551e+04	1041.68
	2	2621.61	-2476.69	-3816.71	-4.650e+04	4.742e+04	2612.30
	3	704.64	-670.11	-1241.93	-2.653e+04	2.551e+04	1041.68
	3	704.64	-670.11	-1241.93	-2.653e+04	2.551e+04	1041.68
	2	2621.61	-2476.69	-3816.71	-4.650e+04	4.742e+04	2612.30
	2	-2186.37	-2268.96	-2210.91	0.0	0.0	0.0
13	3	-566.76	-587.84	-590.11	0.0	0.0	0.0
	1	-860.86	-892.98	-890.72	0.0	0.0	0.0
	1	-860.86	-892.98	-890.72	0.0	0.0	0.0
	1	-860.86	-892.98	-890.72	0.0	0.0	0.0
	1	-860.86	-892.98	-890.72	0.0	0.0	0.0
	2	2173.77	-2095.26	-2165.15	0.0	0.0	0.0
	3	563.42	-543.93	-578.54	0.0	0.0	0.0
	1	855.81	-825.92	-873.05	0.0	0.0	0.0
16	1	855.81	-825.92	-873.05	0.0	0.0	0.0
	1	855.81	-825.92	-873.05	0.0	0.0	0.0
	1	855.81	-825.92	-873.05	0.0	0.0	0.0
	2	-1.129e+04	1.33	-7567.14	-8675.99	1662.98	3912.80
	3	-3052.20	-0.65	-2068.89	-464.65	415.68	979.59
	2	-1.129e+04	1.33	-7567.14	-8675.99	1662.98	3912.80
	3	-3052.20	-0.65	-2068.89	-464.65	415.68	979.59
	3	-3052.20	-0.65	-2068.89	-464.65	415.68	979.59
17	2	-1.129e+04	1.33	-7567.14	-8675.99	1662.98	3912.80
	2	1.134e+04	397.34	-7626.97	-5717.24	-1423.09	3892.95
	3	3066.32	98.64	-2084.11	278.93	-355.57	981.16
	2	1.134e+04	397.34	-7626.97	-5717.24	-1423.09	3892.95
	3	3066.32	98.64	-2084.11	278.93	-355.57	981.16
	2	1.134e+04	397.34	-7626.97	-5717.24	-1423.09	3892.95
	3	3066.32	98.64	-2084.11	278.93	-355.57	981.16
	2	0.0	0.0	-2312.33	0.0	0.0	0.0
26	3	0.0	0.0	-527.53	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	2	412.65	-4.34e-05	-4622.67	-2.87e-04	0.0	0.0
	3	128.92	-1.13e-05	-995.01	-6.54e-05	0.0	0.0
28	2	412.65	-4.34e-05	-4622.67	-2.87e-04	0.0	0.0
	3	128.92	-1.13e-05	-995.01	-6.54e-05	0.0	0.0
	1	188.57	-1.72e-05	-1578.46	-1.02e-04	0.0	0.0
	1	188.57	-1.72e-05	-1578.46	-1.02e-04	0.0	0.0
	2	-1.018e+04	-6.53	-7439.44	-2.304e+04	0.0	1510.93
	3	-2611.24	-2.20	-1943.01	-4939.86	0.0	373.52
	2	-1.018e+04	-6.53	-7439.44	-2.304e+04	0.0	1510.93
	3	-2611.24	-2.20	-1943.01	-4939.86	0.0	373.52
30	4	-8820.24	-5.56	-6435.98	-2.014e+04	0.0	1311.11
	1	-3975.80	-3.17	-2946.48	-7844.17	0.0	573.34
	2	1.014e+04	407.38	-6158.34	9.642e+04	0.0	-1140.52
	3	2600.47	101.58	-1664.23	2.117e+04	0.0	-280.65
	3	2600.47	101.58	-1664.23	2.117e+04	0.0	-280.65
	2	1.014e+04	407.38	-6158.34	9.642e+04	0.0	-1140.52
	1	3959.32	155.62	-2505.42	3.341e+04	0.0	-431.23
	1	3959.32	155.62	-2505.42	3.341e+04	0.0	-431.23
42	2	1.014e+04	-407.38	-6158.34	-9.642e+04	0.0	1140.45
	3	2600.47	-101.58	-1664.23	-2.117e+04	0.0	280.63
	2	1.014e+04	-407.38	-6158.34	-9.642e+04	0.0	1140.45
	3	2600.47	-101.58	-1664.23	-2.117e+04	0.0	280.63
	3	2600.47	-101.58	-1664.23	-2.117e+04	0.0	280.63
	2	1.014e+04	-407.38	-6158.34	-9.642e+04	0.0	1140.45
	2	-2397.14	-368.75	-3494.01	-5615.09	0.0	0.0
	3	-607.48	-93.15	-783.98	-1370.21	0.0	0.0
45	2	-2397.14	-368.75	-3494.01	-5615.09	0.0	0.0
	3	-607.48	-93.15	-783.98	-1370.21	0.0	0.0
	1	-927.31	-142.30	-1231.00	-2109.42	0.0	0.0
	1	-927.31	-142.30	-1231.00	-2109.42	0.0	0.0
	2	-2397.14	-368.75	-3494.01	-5615.09	0.0	0.0
	3	-607.48	-93.15	-783.98	-1370.21	0.0	0.0
	1	-927.31	-142.30	-1231.00	-2109.42	0.0	0.0
	1	-927.31	-142.30	-1231.00	-2109.42	0.0	0.0
46	2	265.59	180.40	-3154.46	6.863e+04	0.0	0.0

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	3	79.07	45.42	-1359.41	1.681e+04	0.0	0.0
	3	79.07	45.42	-1359.41	1.681e+04	0.0	0.0
	2	265.59	180.40	-3154.46	6.863e+04	0.0	0.0
	1	116.72	69.43	-1885.97	2.585e+04	0.0	0.0
	1	116.72	69.43	-1885.97	2.585e+04	0.0	0.0
47	2	0.0	0.0	-2312.33	0.0	0.0	0.0
	3	0.0	0.0	-527.53	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
	1	0.0	0.0	-825.01	0.0	0.0	0.0
49	2	7104.32	36.63	-2965.73	1484.89	0.0	-636.38
	3	1958.94	8.47	-975.28	348.70	0.0	-149.44
	3	1958.94	8.47	-975.28	348.70	0.0	-149.44
	2	7104.32	36.63	-2965.73	1484.89	0.0	-636.38
	1	2936.72	13.20	-1413.19	541.61	0.0	-232.12
	1	2936.72	13.20	-1413.19	541.61	0.0	-232.12
51	2	2621.61	2476.69	-3816.71	4.650e+04	4.742e+04	-2612.30
	3	704.64	670.11	-1241.93	2.653e+04	2.551e+04	-1041.68
	3	704.64	670.11	-1241.93	2.653e+04	2.551e+04	-1041.68
	2	2621.61	2476.69	-3816.71	4.650e+04	4.742e+04	-2612.30
	3	704.64	670.11	-1241.93	2.653e+04	2.551e+04	-1041.68
	2	2621.61	2476.69	-3816.71	4.650e+04	4.742e+04	-2612.30
52	2	-2186.37	2268.97	-2210.91	0.0	0.0	0.0
	3	-566.76	587.84	-590.11	0.0	0.0	0.0
	1	-860.86	892.98	-890.72	0.0	0.0	0.0
	1	-860.86	892.98	-890.72	0.0	0.0	0.0
	1	-860.86	892.98	-890.72	0.0	0.0	0.0
	1	-860.86	892.98	-890.72	0.0	0.0	0.0
55	2	2173.77	2095.26	-2165.15	0.0	0.0	0.0
	3	563.42	543.93	-578.54	0.0	0.0	0.0
	1	855.81	825.92	-873.05	0.0	0.0	0.0
	1	855.81	825.92	-873.05	0.0	0.0	0.0
	1	855.81	825.92	-873.05	0.0	0.0	0.0
	1	855.81	825.92	-873.05	0.0	0.0	0.0
56	2	-1.129e+04	-1.33	-7567.13	8675.92	1662.99	-3912.83
	3	-3052.21	0.65	-2068.89	464.63	415.68	-979.60
	3	-3052.21	0.65	-2068.89	464.63	415.68	-979.60
	2	-1.129e+04	-1.33	-7567.13	8675.92	1662.99	-3912.83
	3	-3052.21	0.65	-2068.89	464.63	415.68	-979.60
	2	-1.129e+04	-1.33	-7567.13	8675.92	1662.99	-3912.83
57	2	1.134e+04	-397.34	-7626.97	5717.35	-1423.08	-3892.97
	3	3066.32	-98.64	-2084.12	-278.90	-355.57	-981.16
	3	3066.32	-98.64	-2084.12	-278.90	-355.57	-981.16
	2	1.134e+04	-397.34	-7626.97	5717.35	-1423.08	-3892.97
	2	1.134e+04	-397.34	-7626.97	5717.35	-1423.08	-3892.97
	3	3066.32	-98.64	-2084.12	-278.90	-355.57	-981.16
58	2	-1.018e+04	6.53	-7439.45	2.304e+04	0.0	-1510.92
	3	-2611.24	2.20	-1943.01	4939.87	0.0	-373.52
	3	-2611.24	2.20	-1943.01	4939.87	0.0	-373.52
	2	-1.018e+04	6.53	-7439.45	2.304e+04	0.0	-1510.92
	1	-3975.80	3.17	-2946.48	7844.18	0.0	-573.34
	1	-3975.80	3.17	-2946.48	7844.18	0.0	-573.34

5. RISULTATI ELEMENTI TIPO TRAVE

5.1 LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

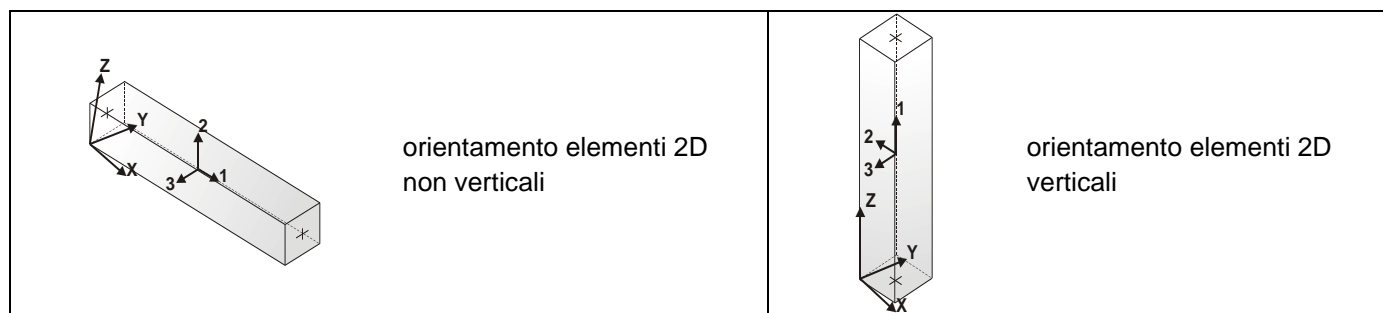
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



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Pilas.	Cmb	M3 mx/mn daN cm	M2 mx/mn daN cm	D 2 / D 3 cm	Q 2 / Q 3 daN	Pos. cm	N daN	V 2 daN	V 3 daN	T daN cm	M 2 M 3 daN cm
daN cm											
7	2	6352.40	1.415e+04	0.28	0.0	0.0	2130.66	-301.96	216.37	1497.45	-1.831e+04
6352.40		-3.894e+04	-1.831e+04	0.14	0.0	75.0	2167.51	-301.96	216.37	1497.45	-2078.92
1.629e+04						150.0	2204.37	-301.96	216.37	1497.45	1.415e+04
3.894e+04											
7	3	1430.67	3276.52	0.06	0.0	0.0	639.29	-66.75	50.06	341.10	-4231.74
1430.67		-8582.43	-4231.74	0.03	0.0	75.0	667.64	-66.75	50.06	341.10	-477.61
3575.88						150.0	695.99	-66.75	50.06	341.10	3276.52
8582.43											
7	5	1597.85	3644.53	0.07	0.0	0.0	687.65	-74.76	55.69	380.33	-4708.27
1597.85		-9616.40	-4708.27	0.04	0.0	75.0	716.00	-74.76	55.69	380.33	-531.87
4009.27						150.0	744.35	-74.76	55.69	380.33	3644.53
9616.40											
7	6	4336.52	9673.00	0.19	0.0	0.0	1479.88	-205.94	147.92	1022.86	-1.251e+04
4336.52		-2.655e+04	-1.251e+04	0.09	0.0	75.0	1508.23	-205.94	147.92	1022.86	-1420.69
1.111e+04						150.0	1536.58	-205.94	147.92	1022.86	9673.00
2.655e+04											
7	7	1597.85	3644.53	0.07	0.0	0.0	687.65	-74.76	55.69	380.33	-4708.27
1597.85		-9616.40	-4708.27	0.04	0.0	75.0	716.00	-74.76	55.69	380.33	-531.87
4009.27						150.0	744.35	-74.76	55.69	380.33	3644.53
9616.40											
7	8	2145.59	4850.23	0.09	0.0	0.0	846.10	-101.00	74.13	508.83	-6269.49
2145.59		-1.300e+04	-6269.49	0.05	0.0	75.0	874.45	-101.00	74.13	508.83	-709.63
5429.15						150.0	902.80	-101.00	74.13	508.83	4850.23
1.300e+04											
7	9	1597.85	3644.53	0.07	0.0	0.0	687.65	-74.76	55.69	380.33	-4708.27
1597.85		-9616.40	-4708.27	0.04	0.0	75.0	716.00	-74.76	55.69	380.33	-531.87
4009.27						150.0	744.35	-74.76	55.69	380.33	3644.53
9616.40											
27	1	4587.44	140.15	-3.19e-03	0.0	0.0	2962.13	-60.11	20.18	177.06	-2886.12
4587.44		-4428.44	-2886.12	0.14	0.0	75.0	2998.98	-60.11	20.18	177.06	-1372.98
79.50						150.0	3035.84	-60.11	20.18	177.06	140.15
4428.44											
27	2	1.186e+04	-299.40	-8.19e-03	0.0	0.0	7312.42	-152.58	46.95	451.39	-7341.55
1.186e+04		-1.103e+04	-7341.55	0.36	0.0	75.0	7349.28	-152.58	46.95	451.39	-3820.48
417.40						150.0	7386.13	-152.58	46.95	451.39	-299.40
1.103e+04											
27	3	3005.07	139.46	-2.10e-03	0.0	0.0	1965.32	-39.58	13.59	116.45	-1899.29
3005.07		-2931.42	-1899.29	0.09	0.0	75.0	1993.67	-39.58	13.59	116.45	-879.91
36.82						150.0	2022.02	-39.58	13.59	116.45	139.46
2931.42											
27	5	3301.09	121.57	-2.30e-03	0.0	0.0	2142.37	-43.34	14.68	127.61	-2080.61
3301.09		-3199.94	-2080.61	0.10	0.0	75.0	2170.72	-43.34	14.68	127.61	-979.52
50.58						150.0	2199.07	-43.34	14.68	127.61	121.57
3199.94											
27	6	8150.26	-171.47	-5.63e-03	0.0	0.0	5042.57	-104.99	32.53	310.50	-5050.90
8150.26		-7598.58	-5050.90	0.25	0.0	75.0	5070.92	-104.99	32.53	310.50	-2611.18
275.84						150.0	5099.27	-104.99	32.53	310.50	-171.47

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7598.58												
27	7	3301.09	121.57	-2.30e-03	0.0	0.0	2142.37	-43.34	14.68	127.61	-2080.61	
3301.09		-3199.94	-2080.61	0.10	0.0	75.0	2170.72	-43.34	14.68	127.61	-979.52	
50.58						150.0	2199.07	-43.34	14.68	127.61	121.57	-
3199.94												
27	8	4270.92	62.96	-2.97e-03	0.0	0.0	2722.41	-55.67	18.25	164.19	-2674.67	
4270.92		-4079.67	-2674.67	0.13	0.0	75.0	2750.76	-55.67	18.25	164.19	-1305.85	
95.63						150.0	2779.11	-55.67	18.25	164.19	62.96	-
4079.67												
27	9	3301.09	121.57	-2.30e-03	0.0	0.0	2142.37	-43.34	14.68	127.61	-2080.61	
3301.09		-3199.94	-2080.61	0.10	0.0	75.0	2170.72	-43.34	14.68	127.61	-979.52	
50.58						150.0	2199.07	-43.34	14.68	127.61	121.57	-
3199.94												
37	2	366.06	1.679e+04	0.06	0.0	0.0	4508.74	3.18	-143.55	-913.05	1.679e+04	-
111.43		-111.43	-4739.18	0.30	0.0	75.0	4545.60	3.18	-143.55	-913.05	6027.01	
127.31						150.0	4582.45	3.18	-143.55	-913.05	-4739.18	
366.06												
37	3	81.54	4148.41	0.01	0.0	0.0	1162.88	0.70	-35.44	-228.93	4148.41	-
23.34		-23.34	-1167.74	0.07	0.0	75.0	1191.23	0.70	-35.44	-228.93	1490.33	
29.10						150.0	1219.58	0.70	-35.44	-228.93	-1167.74	
81.54												
37	5	91.21	4572.66	0.01	0.0	0.0	1274.41	0.78	-39.07	-251.84	4572.66	-
26.35		-26.35	-1287.61	0.08	0.0	75.0	1302.76	0.78	-39.07	-251.84	1642.52	
32.43						150.0	1331.11	0.78	-39.07	-251.84	-1287.61	
91.21												
37	6	249.75	1.152e+04	0.04	0.0	0.0	3101.40	2.17	-98.49	-627.01	1.152e+04	-
75.79		-75.79	-3251.22	0.20	0.0	75.0	3129.75	2.17	-98.49	-627.01	4135.55	
86.98						150.0	3158.10	2.17	-98.49	-627.01	-3251.22	
249.75												
37	7	91.21	4572.66	0.01	0.0	0.0	1274.41	0.78	-39.07	-251.84	4572.66	-
26.35		-26.35	-1287.61	0.08	0.0	75.0	1302.76	0.78	-39.07	-251.84	1642.52	
32.43						150.0	1331.11	0.78	-39.07	-251.84	-1287.61	
91.21												
37	8	122.92	5962.59	0.02	0.0	0.0	1639.81	1.06	-50.95	-326.87	5962.59	-
36.24		-36.24	-1680.34	0.11	0.0	75.0	1668.16	1.06	-50.95	-326.87	2141.13	
43.34						150.0	1696.51	1.06	-50.95	-326.87	-1680.34	
122.92												
37	9	91.21	4572.66	0.01	0.0	0.0	1274.41	0.78	-39.07	-251.84	4572.66	-
26.35		-26.35	-1287.61	0.08	0.0	75.0	1302.76	0.78	-39.07	-251.84	1642.52	
32.43						150.0	1331.11	0.78	-39.07	-251.84	-1287.61	
91.21												
47	2	6352.41	1.831e+04	0.28	0.0	0.0	2130.66	-301.96	-216.37	-1497.46	1.831e+04	
6352.41		-3.894e+04	-1.415e+04	-0.14	0.0	75.0	2167.51	-301.96	-216.37	-1497.46	2078.90	-
1.629e+04						150.0	2204.37	-301.96	-216.37	-1497.46	-1.415e+04	-
3.894e+04												
47	3	1430.67	4231.72	0.06	0.0	0.0	639.29	-66.75	-50.05	-341.11	4231.72	
1430.67		-8582.44	-3276.51	-0.03	0.0	75.0	667.64	-66.75	-50.05	-341.11	477.61	-
3575.89						150.0	695.99	-66.75	-50.05	-341.11	-3276.51	-
8582.44												
47	5	1597.86	4708.25	0.07	0.0	0.0	687.65	-74.76	-55.69	-380.33	4708.25	
1597.86		-9616.42	-3644.52	-0.04	0.0	75.0	716.00	-74.76	-55.69	-380.33	531.87	-

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4009.28													
						150.0	744.35	-74.76	-55.69	-380.33	-3644.52	-	
9616.42													
47	6	4336.53	1.251e+04	0.19	0.0	0.0	1479.88	-205.94	-147.92	-1022.87	1.251e+04		
4336.53		-2.655e+04	-9672.96	-0.09	0.0	75.0	1508.23	-205.94	-147.92	-1022.87	1420.68	-	
1.111e+04													
						150.0	1536.58	-205.94	-147.92	-1022.87	-9672.96	-	
2.655e+04													
47	7	1597.86	4708.25	0.07	0.0	0.0	687.65	-74.76	-55.69	-380.33	4708.25		
1597.86		-9616.42	-3644.52	-0.04	0.0	75.0	716.00	-74.76	-55.69	-380.33	531.87	-	
4009.28													
						150.0	744.35	-74.76	-55.69	-380.33	-3644.52	-	
9616.42													
47	8	2145.59	6269.46	0.09	0.0	0.0	846.10	-101.00	-74.13	-508.84	6269.46		
2145.59		-1.300e+04	-4850.21	-0.05	0.0	75.0	874.45	-101.00	-74.13	-508.84	709.63	-	
5429.16													
						150.0	902.80	-101.00	-74.13	-508.84	-4850.21	-	
1.300e+04													
47	9	1597.86	4708.25	0.07	0.0	0.0	687.65	-74.76	-55.69	-380.33	4708.25		
1597.86		-9616.42	-3644.52	-0.04	0.0	75.0	716.00	-74.76	-55.69	-380.33	531.87	-	
4009.28													
						150.0	744.35	-74.76	-55.69	-380.33	-3644.52	-	
9616.42													
90	1	4587.43	2886.09	-3.19e-03	0.0	0.0	2962.14	-60.11	-20.18	-177.06	2886.09		
4587.43		-4428.45	-140.16	-0.14	0.0	75.0	2998.99	-60.11	-20.18	-177.06	1372.97		
79.49													
						150.0	3035.85	-60.11	-20.18	-177.06	-140.16	-	
4428.45													
90	2	1.186e+04	7341.47	-8.19e-03	0.0	0.0	7312.44	-152.58	-46.95	-451.39	7341.47		
1.186e+04		-1.103e+04	299.38	-0.36	0.0	75.0	7349.30	-152.58	-46.95	-451.39	3820.43		
417.37													
						150.0	7386.15	-152.58	-46.95	-451.39	299.38	-	
1.103e+04													
90	3	3005.06	1899.27	-2.09e-03	0.0	0.0	1965.33	-39.58	-13.59	-116.45	1899.27		
3005.06		-2931.42	-139.46	-0.09	0.0	75.0	1993.68	-39.58	-13.59	-116.45	879.90		
36.82													
						150.0	2022.03	-39.58	-13.59	-116.45	-139.46	-	
2931.42													
90	5	3301.08	2080.59	-2.30e-03	0.0	0.0	2142.38	-43.34	-14.68	-127.61	2080.59		
3301.08		-3199.95	-121.58	-0.10	0.0	75.0	2170.73	-43.34	-14.68	-127.61	979.51		
50.57													
						150.0	2199.08	-43.34	-14.68	-127.61	-121.58	-	
3199.95													
90	6	8150.23	5050.85	-5.63e-03	0.0	0.0	5042.58	-104.99	-32.53	-310.50	5050.85		
8150.23		-7598.59	171.45	-0.25	0.0	75.0	5070.93	-104.99	-32.53	-310.50	2611.15		
275.82													
						150.0	5099.28	-104.99	-32.53	-310.50	171.45	-	
7598.59													
90	7	3301.08	2080.59	-2.30e-03	0.0	0.0	2142.38	-43.34	-14.68	-127.61	2080.59		
3301.08		-3199.95	-121.58	-0.10	0.0	75.0	2170.73	-43.34	-14.68	-127.61	979.51		
50.57													
						150.0	2199.08	-43.34	-14.68	-127.61	-121.58	-	
3199.95													
90	8	4270.91	2674.64	-2.96e-03	0.0	0.0	2722.42	-55.67	-18.25	-164.19	2674.64		
4270.91		-4079.67	-62.97	-0.13	0.0	75.0	2750.77	-55.67	-18.25	-164.19	1305.84		
95.62													
						150.0	2779.12	-55.67	-18.25	-164.19	-62.97	-	
4079.67													
90	9	3301.08	2080.59	-2.30e-03	0.0	0.0	2142.38	-43.34	-14.68	-127.61	2080.59		
3301.08		-3199.95	-121.58	-0.10	0.0	75.0	2170.73	-43.34	-14.68	-127.61	979.51		
50.57													
						150.0	2199.08	-43.34	-14.68	-127.61	-121.58	-	
3199.95													
100	2	365.93	4739.46	0.06	0.0	0.0	4508.74	3.18	143.56	912.95	-1.679e+04	-	

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111.37												
		-111.37-1.679e+04	-0.30	0.0	75.0	4545.60	3.18	143.56	912.95	-6027.17		
127.28												
					150.0	4582.45	3.18	143.56	912.95	4739.46		
365.93												
100	3	81.50	1167.81	0.01	0.0	0.0	1162.88	0.70	35.44	228.91	-4148.56	-
23.32												
		-23.32	-4148.56	-0.07	0.0	75.0	1191.23	0.70	35.44	228.91	-1490.37	
29.09												
					150.0	1219.58	0.70	35.44	228.91	1167.81		
81.50												
100	5	91.18	1287.69	0.01	0.0	0.0	1274.41	0.78	39.07	251.81	-4572.83	-
26.34												
		-26.34	-4572.83	-0.08	0.0	75.0	1302.76	0.78	39.07	251.81	-1642.57	
32.42												
					150.0	1331.11	0.78	39.07	251.81	1287.69		
91.18												
100	6	249.66	3251.42	0.04	0.0	0.0	3101.40	2.17	98.49	626.94	-1.152e+04	-
75.75												
		-75.75-1.152e+04	-0.20	0.0	75.0	3129.75	2.17	98.49	626.94	-4135.66		
86.96												
					150.0	3158.10	2.17	98.49	626.94	3251.42		
249.66												
100	7	91.18	1287.69	0.01	0.0	0.0	1274.41	0.78	39.07	251.81	-4572.83	-
26.34												
		-26.34	-4572.83	-0.08	0.0	75.0	1302.76	0.78	39.07	251.81	-1642.57	
32.42												
					150.0	1331.11	0.78	39.07	251.81	1287.69		
91.18												
100	8	122.88	1680.44	0.02	0.0	0.0	1639.81	1.06	50.95	326.84	-5962.81	-
36.22												
		-36.22	-5962.81	-0.11	0.0	75.0	1668.16	1.06	50.95	326.84	-2141.19	
43.33												
					150.0	1696.51	1.06	50.95	326.84	1680.44		
122.88												
100	9	91.18	1287.69	0.01	0.0	0.0	1274.41	0.78	39.07	251.81	-4572.83	-
26.34												
		-26.34	-4572.83	-0.08	0.0	75.0	1302.76	0.78	39.07	251.81	-1642.57	
32.42												
					150.0	1331.11	0.78	39.07	251.81	1287.69		
91.18												
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-3.894e+04	-1.831e+04	-0.36	0.0		639.29	-301.96	-216.37	-1497.46		
		1.186e+04	1.831e+04	0.36	0.0		7386.15	3.18	216.37	1497.45		
Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2 M 3	
daN cm		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	
1	1	5.822e+04	0.0	-0.32	-837.40	0.0	-1361.00	433.89	0.0	-448.07	0.0 0.0	
		0.0	0.0	-5.19e-04	0.0	270.0	-1361.00	-2.64	0.0	-448.07	0.0	
5.822e+04												
						540.0	-1361.00	-403.51	0.0	-448.07	0.0 0.0	
1	2	1.560e+05	0.0	-0.85	-2228.05	0.0	-3384.41	1164.05	0.0	-1287.33	0.0 0.0	
		0.0	0.0	-8.54e-04	0.0	270.0	-3384.41	-8.70	0.0	-1287.33	0.0	
1.560e+05												
						540.0	-3384.41	-1063.99	0.0	-1287.33	0.0 0.0	
1	3	3.774e+04	0.0	-0.21	-544.02	0.0	-901.23	281.19	0.0	-284.24	0.0 0.0	
		0.0	0.0	-3.75e-04	0.0	270.0	-901.23	-1.60	0.0	-284.24	0.0	
3.774e+04												
						540.0	-901.23	-262.84	0.0	-284.24	0.0 0.0	
1	5	4.172e+04	0.0	-0.23	-600.62	0.0	-983.58	310.90	0.0	-318.40	0.0 0.0	
		0.0	0.0	-3.89e-04	0.0	270.0	-983.58	-1.84	0.0	-318.40	0.0	
4.172e+04												
						540.0	-983.58	-289.72	0.0	-318.40	0.0 0.0	
1	6	1.069e+05	0.0	-0.58	-1527.72	0.0	-2332.52	797.68	0.0	-877.90	0.0 0.0	
		0.0	0.0	-6.12e-04	0.0	270.0	-2332.52	-5.88	0.0	-877.90	0.0	
1.069e+05												
						540.0	-2332.52	-730.04	0.0	-877.90	0.0 0.0	
1	7	4.172e+04	0.0	-0.23	-600.62	0.0	-983.58	310.90	0.0	-318.40	0.0 0.0	
		0.0	0.0	-3.89e-04	0.0	270.0	-983.58	-1.84	0.0	-318.40	0.0	
4.172e+04												
						540.0	-983.58	-289.72	0.0	-318.40	0.0 0.0	
1	8	5.476e+04	0.0	-0.30	-786.04	0.0	-1253.36	408.26	0.0	-430.30	0.0 0.0	
		0.0	0.0	-4.33e-04	0.0	270.0	-1253.36	-2.65	0.0	-430.30	0.0	

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5.476e+04						540.0	-1253.36	-377.78	0.0	-430.30	0.0	0.0
1	9	4.172e+04	0.0	-0.23	-600.62	0.0	-983.58	310.90	0.0	-318.40	0.0	0.0
		0.0	0.0	-3.89e-04	0.0	270.0	-983.58	-1.84	0.0	-318.40	0.0	
4.172e+04												
2	2	5.333e+04	-1.452e+04	-0.10	-1082.82	540.0	-983.58	-289.72	0.0	-318.40	0.0	0.0
8134.74						0.0	-3688.29	541.41	-2.39e-05	-3.58e-05	-1.452e+04	
		8134.69	-1.452e+04	0.03	0.0	150.0	-3688.29	-1.32e-04	-2.39e-05	-3.58e-05	-1.452e+04	
5.333e+04						300.0	-3688.29	-541.41	-2.39e-05	-3.58e-05	-1.452e+04	
8134.69												
2	3	1.262e+04	-3297.17	-0.02	-273.81	0.0	-1009.97	136.91	-6.13e-06	-2.26e-05	-3297.17	
1514.87		1514.86	-3297.17	6.58e-03	0.0	150.0	-1009.97	-3.41e-05	-6.13e-06	-2.26e-05	-3297.17	
1.262e+04						300.0	-1009.97	-136.91	-6.13e-06	-2.26e-05	-3297.17	
1514.86												
2	5	1.400e+04	-3677.88	-0.03	-300.86	0.0	-1098.36	150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.31		1744.30	-3677.88	7.34e-03	0.0	150.0	-1098.36	-3.72e-05	-6.72e-06	-2.30e-05	-3677.88	
1.400e+04						300.0	-1098.36	-150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.30												
2	6	3.650e+04	-9914.31	-0.07	-743.96	0.0	-2546.38	371.98	-1.64e-05	-2.66e-05	-9914.31	
5502.77		5502.74	-9914.32	0.02	0.0	150.0	-2546.38	-9.12e-05	-1.64e-05	-2.66e-05	-9914.31	
3.650e+04						300.0	-2546.38	-371.98	-1.64e-05	-2.66e-05	-9914.32	
5502.74												
2	7	1.400e+04	-3677.88	-0.03	-300.86	0.0	-1098.36	150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.31		1744.30	-3677.88	7.34e-03	0.0	150.0	-1098.36	-3.72e-05	-6.72e-06	-2.30e-05	-3677.88	
1.400e+04						300.0	-1098.36	-150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.30												
2	8	1.850e+04	-4925.17	-0.03	-389.48	0.0	-1387.97	194.74	-8.66e-06	-2.37e-05	-4925.17	
2496.00		2495.99	-4925.17	9.83e-03	0.0	150.0	-1387.97	-4.80e-05	-8.66e-06	-2.37e-05	-4925.17	
1.850e+04						300.0	-1387.97	-194.74	-8.66e-06	-2.37e-05	-4925.17	
2495.99												
2	9	1.400e+04	-3677.88	-0.03	-300.86	0.0	-1098.36	150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.31		1744.30	-3677.88	7.34e-03	0.0	150.0	-1098.36	-3.72e-05	-6.72e-06	-2.30e-05	-3677.88	
1.400e+04						300.0	-1098.36	-150.43	-6.72e-06	-2.30e-05	-3677.88	
1744.30												
3	2	4349.10	1.888e+04	8.75e-03	-610.73	0.0	-586.00	409.86	-150.15	4365.14	1.888e+04	-
4.196e+04		-4.196e+04	-1.440e+04	6.20e-03	0.0	110.8	-532.32	232.72	-150.15	4365.14	2237.09	-
3913.43						221.7	-400.92	-200.86	-150.15	4365.14	-1.440e+04	0.0
3	3	1489.18	4290.56	1.35e-03	-165.20	0.0	-163.75	108.39	-34.12	991.75	4290.56	-
9163.77		-9163.77	-3272.62	1.78e-03	0.0	110.8	-145.85	49.31	-34.12	991.75	508.97	
21.54						221.7	-113.69	-56.81	-34.12	991.75	-3272.62	0.0
3	5	1569.54	4785.53	1.53e-03	-179.94	0.0	-177.64	118.40	-38.06	1106.22	4785.53	-
1.028e+04		-1.028e+04	-3650.34	1.93e-03	0.0	110.8	-158.60	55.58	-38.06	1106.22	567.60	-
125.14						221.7	-123.11	-61.53	-38.06	1106.22	-3650.34	0.0
3	6	3043.36	1.289e+04	5.82e-03	-421.32	0.0	-405.09	282.36	-102.55	2981.28	1.289e+04	-
2.860e+04		-2.860e+04	-9837.71	4.29e-03	0.0	110.8	-367.52	158.38	-102.55	2981.28	1527.99	-
2527.85						221.7	-277.42	-138.96	-102.55	2981.28	-9837.71	0.0
3	7	1569.54	4785.53	1.53e-03	-179.94	0.0	-177.64	118.40	-38.06	1106.22	4785.53	-
1.028e+04		-1.028e+04	-3650.34	1.93e-03	0.0	110.8	-158.60	55.58	-38.06	1106.22	567.60	-
125.14						221.7	-123.11	-61.53	-38.06	1106.22	-3650.34	0.0
3	8	1839.76	6407.16	2.27e-03	-228.21	0.0	-223.13	151.19	-50.96	1481.23	6407.16	-
1.394e+04		-1.394e+04	-4887.82	2.40e-03	0.0	110.8	-200.39	76.14	-50.96	1481.23	759.67	-

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605.68													
3	9	1569.54	4785.53	1.53e-03	-179.94	221.7	-153.97	-77.02	-50.96	1481.23	-4887.82	0.0	
1.028e+04						0.0	-177.64	118.40	-38.06	1106.22	4785.53	-	
125.14		-1.028e+04	-3650.34	1.93e-03	0.0	110.8	-158.60	55.58	-38.06	1106.22	567.60	-	
4	1	1.728e+04	0.0	-0.09	-864.19	221.7	-123.11	-61.53	-38.06	1106.22	-3650.34	0.0	
3.457e+04						0.0	0.0	432.09	0.0	0.0	0.0	-	
1.728e+04		-3.457e+04	0.0	0.0	0.0	240.0	0.0	-1.24e-05	0.0	0.0	0.0		
3.457e+04						480.0	0.0	-432.09	0.0	0.0	0.0	-	
4	2	5.000e+04	0.0	-0.27	-2500.24	0.0	0.0	1250.12	0.0	0.0	0.0	-	
1.000e+05													
5.000e+04		-1.000e+05	0.0	0.0	0.0	240.0	0.0	-3.58e-05	0.0	0.0	0.0		
1.000e+05						480.0	0.0	-1250.12	0.0	0.0	0.0	-	
4	5	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-	
2.454e+04													
1.227e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	-8.89e-06	0.0	0.0	0.0		
2.454e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-	
4	6	3.408e+04	0.0	-0.19	-1704.25	0.0	0.0	852.12	0.0	0.0	0.0	-	
6.817e+04													
3.408e+04		-6.817e+04	0.0	0.0	0.0	240.0	0.0	-2.45e-05	0.0	0.0	0.0		
6.817e+04						480.0	0.0	-852.12	0.0	0.0	0.0	-	
4	7	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-	
2.454e+04													
1.227e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	-8.89e-06	0.0	0.0	0.0		
2.454e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-	
4	8	1.663e+04	0.0	-0.09	-831.68	0.0	0.0	415.84	0.0	0.0	0.0	-	
3.327e+04													
1.663e+04		-3.327e+04	0.0	0.0	0.0	240.0	0.0	-1.20e-05	0.0	0.0	0.0		
3.327e+04						480.0	0.0	-415.84	0.0	0.0	0.0	-	
4	9	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-	
2.454e+04													
1.227e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	-8.89e-06	0.0	0.0	0.0		
2.454e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-	
5	1	3980.04	0.0	0.11	-265.34	0.0	-723.62	126.72	0.0	-275.87	0.0	0.0	
3980.04		0.0	0.0	-0.05	0.0	60.0	-723.62	2.97	0.0	-275.87	0.0		
5	2	1.134e+04	0.0	0.31	-756.15	120.0	-723.62	-138.61	0.0	-275.87	0.0	0.0	
1.134e+04		0.0	0.0	-0.12	0.0	0.0	-1917.80	358.50	0.0	-495.67	0.0	0.0	
						60.0	-1917.80	9.79	0.0	-495.67	0.0		
5	3	2531.46	0.0	0.07	-168.76	120.0	-1917.80	-397.65	0.0	-495.67	0.0	0.0	
2531.46		0.0	0.0	-0.03	0.0	0.0	-470.64	80.79	0.0	-196.38	0.0	0.0	
						60.0	-470.64	1.80	0.0	-196.38	0.0		
5	4	9893.72	0.0	0.27	-659.58	120.0	-470.64	-87.97	0.0	-196.38	0.0	0.0	
9893.72		0.0	0.0	-0.11	0.0	0.0	-1664.83	312.57	0.0	-416.18	0.0	0.0	
						60.0	-1664.82	8.61	0.0	-416.18	0.0		
5	5	2831.09	0.0	0.08	-188.74	120.0	-1664.82	-347.01	0.0	-416.18	0.0	0.0	
2831.09		0.0	0.0	-0.03	0.0	0.0	-519.24	90.22	0.0	-205.33	0.0	0.0	
						60.0	-519.24	2.07	0.0	-205.33	0.0		
5	6	7739.26	0.0	0.21	-515.95	120.0	-519.24	-98.51	0.0	-205.33	0.0	0.0	
7739.26		0.0	0.0	-0.08	0.0	0.0	-1315.37	244.74	0.0	-351.86	0.0	0.0	
						60.0	-1315.36	6.62	0.0	-351.86	0.0		
5	7	2831.09	0.0	0.08	-188.74	120.0	-1315.36	-271.21	0.0	-351.86	0.0	0.0	
2831.09		0.0	0.0	-0.03	0.0	0.0	-519.24	90.22	0.0	-205.33	0.0	0.0	
						60.0	-519.24	2.07	0.0	-205.33	0.0		

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5	8	3812.72	0.0	0.11	-254.18	120.0	-519.24	-98.51	0.0	-205.33	0.0 0.0
		0.0	0.0	-0.04	0.0	0.0	-678.47	121.13	0.0	-234.63	0.0 0.0
3812.72						60.0	-678.47	2.98	0.0	-234.63	0.0
5	9	2831.09	0.0	0.08	-188.74	120.0	-678.47	-133.05	0.0	-234.63	0.0 0.0
		0.0	0.0	-0.03	0.0	0.0	-519.24	90.22	0.0	-205.33	0.0 0.0
2831.09						60.0	-519.24	2.07	0.0	-205.33	0.0
6	2	0.0	8368.62	-0.20	-103.19	120.0	-519.24	-98.51	0.0	-205.33	0.0 0.0
7.172e+04						0.0	-7572.63	365.49	-36.63	-1615.52	8368.62 -
3.291e+04		-7.172e+04	0.0	0.02	0.0	114.2	-7594.74	313.89	-36.63	-1615.52	4184.31 -
6	3	0.0	1935.39	-0.04	-79.38	228.5	-7616.86	262.30	-36.63	-1615.52	0.0 0.0
1.390e+04						0.0	-2088.17	100.54	-8.47	-379.38	1935.39 -
4684.23		-1.390e+04	0.0	5.33e-03	0.0	114.2	-2105.18	60.85	-8.47	-379.38	967.69 -
6	4	0.0	7287.06	-0.18	-79.38	228.5	-2122.19	21.16	-8.47	-379.38	0.0 0.0
6.295e+04						0.0	-6530.37	315.23	-31.89	-1405.64	7287.06 -
2.921e+04		-6.295e+04	0.0	0.02	0.0	114.2	-6547.38	275.54	-31.89	-1405.64	3643.53 -
6	5	0.0	2153.19	-0.04	-79.38	228.5	-6564.39	235.85	-31.89	-1405.64	0.0 0.0
1.590e+04						0.0	-2268.96	109.28	-9.42	-421.14	2153.19 -
5682.37		-1.590e+04	0.0	5.96e-03	0.0	114.2	-2285.97	69.59	-9.42	-421.14	1076.59 -
6	6	0.0	5720.97	-0.14	-79.38	228.5	-2302.98	29.90	-9.42	-421.14	0.0 0.0
4.860e+04						0.0	-5230.42	252.41	-25.04	-1105.32	5720.97 -
2.203e+04		-4.860e+04	0.0	0.02	0.0	114.2	-5247.43	212.72	-25.04	-1105.32	2860.49 -
6	7	0.0	2153.19	-0.04	-79.38	228.5	-5264.44	173.03	-25.04	-1105.32	0.0 0.0
1.590e+04						0.0	-2268.96	109.28	-9.42	-421.14	2153.19 -
5682.37		-1.590e+04	0.0	5.96e-03	0.0	114.2	-2285.97	69.59	-9.42	-421.14	1076.59 -
6	8	0.0	2866.74	-0.06	-79.38	228.5	-2302.98	29.90	-9.42	-421.14	0.0 0.0
2.244e+04						0.0	-2861.25	137.90	-12.55	-557.98	2866.74 -
8952.47		-2.244e+04	0.0	8.00e-03	0.0	114.2	-2878.26	98.21	-12.55	-557.98	1433.37 -
6	9	0.0	2153.19	-0.04	-79.38	228.5	-2895.27	58.52	-12.55	-557.98	0.0 0.0
1.590e+04						0.0	-2268.96	109.28	-9.42	-421.14	2153.19 -
5682.37		-1.590e+04	0.0	5.96e-03	0.0	114.2	-2285.97	69.59	-9.42	-421.14	1076.59 -
8	2	9861.10	1.609e+04	0.28	-58.97	228.5	-2302.98	29.90	-9.42	-421.14	0.0 0.0
		0.0	0.0	-0.14	0.0	0.0	-1825.03	92.98	103.64	1634.87	0.0 0.0
6075.22						77.6	-1849.25	63.50	103.64	1634.87	8047.08
9861.10						155.3	-1873.47	34.02	103.64	1634.87	1.609e+04
8	3	2276.87	3725.49	0.06	-45.36	0.0	-489.31	36.47	23.99	381.86	0.0 0.0
		0.0	0.0	-0.03	0.0	77.6	-507.94	13.79	23.99	381.86	1862.75
1951.47						155.3	-526.57	-8.89	23.99	381.86	3725.49
2141.91											
8	4	8612.82	1.401e+04	0.25	-45.36	0.0	-1576.47	78.14	90.24	1422.87	0.0 0.0
		0.0	0.0	-0.12	0.0	77.6	-1595.10	55.46	90.24	1422.87	7006.75
5186.93						155.3	-1613.73	32.78	90.24	1422.87	1.401e+04
8612.82											
8	5	2490.84	4144.19	0.07	-45.36	0.0	-533.55	38.17	26.69	424.23	0.0 0.0
		0.0	0.0	-0.03	0.0	77.6	-552.18	15.49	26.69	424.23	2072.09
2083.15						155.3	-570.81	-7.19	26.69	424.23	4144.19
2405.26											
8	6	6719.20	1.100e+04	0.19	-45.36	0.0	-1258.33	65.95	70.85	1118.23	0.0 0.0
		0.0	0.0	-0.09	0.0	77.6	-1276.96	43.27	70.85	1118.23	5501.43
4240.12						155.3	-1295.59	20.59	70.85	1118.23	1.100e+04
6719.20											
8	7	2490.84	4144.19	0.07	-45.36	0.0	-533.55	38.17	26.69	424.23	0.0 0.0
		0.0	0.0	-0.03	0.0	77.6	-552.18	15.49	26.69	424.23	2072.09

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2083.15												
						155.3	-570.81	-7.19	26.69	424.23	4144.19	
2405.26												
8	8	3270.17	5515.92	0.09	-45.36	0.0	-678.51	43.72	35.52	563.03	0.0	0.0
		0.0	0.0	-0.05	0.0	77.6	-697.14	21.04	35.52	563.03	2757.96	
2514.54												
						155.3	-715.77	-1.64	35.52	563.03	5515.92	
3268.05												
8	9	2490.84	4144.19	0.07	-45.36	0.0	-533.55	38.17	26.69	424.23	0.0	0.0
		0.0	0.0	-0.03	0.0	77.6	-552.18	15.49	26.69	424.23	2072.09	
2083.15												
						155.3	-570.81	-7.19	26.69	424.23	4144.19	
2405.26												
9	2	0.0	2.96e-03	0.09	-923.79	0.0	-412.65	-151.91	2.96e-05	2.87e-04	0.0	0.0
		-6.138e+04	0.0	0.0	0.0	50.0	-412.65	-613.81	2.96e-05	2.87e-04	1.48e-03	-
1.914e+04												
						100.0	-412.65	-1075.70	2.96e-05	2.87e-04	2.96e-03	-
6.138e+04												
9	3	0.0	7.72e-04	0.02	-194.49	0.0	-128.92	-42.78	7.72e-06	6.54e-05	0.0	0.0
		-1.400e+04	0.0	0.0	0.0	50.0	-128.92	-140.03	7.72e-06	6.54e-05	3.86e-04	-
4570.31												
						100.0	-128.92	-237.27	7.72e-06	6.54e-05	7.72e-04	-
1.400e+04												
9	5	0.0	8.45e-04	0.03	-219.46	0.0	-138.04	-46.37	8.45e-06	7.29e-05	0.0	0.0
		-1.561e+04	0.0	0.0	0.0	50.0	-138.04	-156.10	8.45e-06	7.29e-05	4.22e-04	-
5061.60												
						100.0	-138.04	-265.83	8.45e-06	7.29e-05	8.45e-04	-
1.561e+04												
9	6	0.0	2.04e-03	0.06	-628.47	0.0	-287.43	-105.07	2.04e-05	1.96e-04	0.0	0.0
		-4.193e+04	0.0	0.0	0.0	50.0	-287.43	-419.31	2.04e-05	1.96e-04	1.02e-03	-
1.311e+04												
						100.0	-287.43	-733.54	2.04e-05	1.96e-04	2.04e-03	-
4.193e+04												
9	7	0.0	8.45e-04	0.03	-219.46	0.0	-138.04	-46.37	8.45e-06	7.29e-05	0.0	0.0
		-1.561e+04	0.0	0.0	0.0	50.0	-138.04	-156.10	8.45e-06	7.29e-05	4.22e-04	-
5061.60												
						100.0	-138.04	-265.83	8.45e-06	7.29e-05	8.45e-04	-
1.561e+04												
9	8	0.0	1.08e-03	0.03	-301.26	0.0	-167.92	-58.11	1.08e-05	9.76e-05	0.0	0.0
		-2.087e+04	0.0	0.0	0.0	50.0	-167.92	-208.74	1.08e-05	9.76e-05	5.41e-04	-
6671.14												
						100.0	-167.91	-359.37	1.08e-05	9.76e-05	1.08e-03	-
2.087e+04												
9	9	0.0	8.45e-04	0.03	-219.46	0.0	-138.04	-46.37	8.45e-06	7.29e-05	0.0	0.0
		-1.561e+04	0.0	0.0	0.0	50.0	-138.04	-156.10	8.45e-06	7.29e-05	4.22e-04	-
5061.60												
						100.0	-138.04	-265.83	8.45e-06	7.29e-05	8.45e-04	-
1.561e+04												
10	1	5.377e+04	2.34e-03	-0.27	-1525.87	0.0	0.0	894.07	-5.48e-06	0.0	2.34e-03	-
7.483e+04												
		-7.483e+04	-9.48e-04	0.0	0.0	300.0	0.0	-36.73	-5.48e-06	0.0	6.97e-04	
5.377e+04												
						600.0	0.0	-631.80	-5.48e-06	0.0	-9.48e-04	-
6.877e+04												
10	2	1.561e+05	5.92e-03	-0.79	-4436.87	0.0	0.0	2623.18	-1.38e-05	0.0	5.92e-03	-
2.151e+05												
		-2.151e+05	-2.38e-03	0.0	0.0	300.0	0.0	-148.19	-1.38e-05	0.0	1.77e-03	
1.561e+05												
						600.0	0.0	-1813.69	-1.38e-05	0.0	-2.38e-03	-
2.115e+05												
10	5	3.816e+04	1.69e-03	-0.20	-1082.61	0.0	0.0	633.61	-3.96e-06	0.0	1.69e-03	-
5.317e+04												
		-5.317e+04	-6.84e-04	0.0	0.0	300.0	0.0	-24.77	-3.96e-06	0.0	5.03e-04	
3.816e+04												
						600.0	0.0	-449.00	-3.96e-06	0.0	-6.84e-04	-
4.843e+04												
10	6	1.064e+05	4.07e-03	-0.54	-3023.28	0.0	0.0	1786.35	-9.52e-06	0.0	4.07e-03	-
1.467e+05												
		-1.467e+05	-1.64e-03	0.0	0.0	300.0	0.0	-99.07	-9.52e-06	0.0	1.21e-03	
1.064e+05												
						600.0	0.0	-1236.92	-9.52e-06	0.0	-1.64e-03	-
1.436e+05												
10	7	3.816e+04	1.69e-03	-0.20	-1082.61	0.0	0.0	633.61	-3.96e-06	0.0	1.69e-03	-
5.317e+04												
		-5.317e+04	-6.84e-04	0.0	0.0	300.0	0.0	-24.77	-3.96e-06	0.0	5.03e-04	
3.816e+04												

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4.843e+04					600.0	0.0	-449.00	-3.96e-06	0.0	-6.84e-04	-	
10	8	5.181e+04	2.17e-03	-0.26	-1470.75	0.0	0.0	864.16	-5.07e-06	0.0	2.17e-03	-
7.187e+04		-7.187e+04	-8.76e-04	0.0	0.0	300.0	0.0	-39.63	-5.07e-06	0.0	6.45e-04	
5.181e+04					600.0	0.0	-606.59	-5.07e-06	0.0	-8.76e-04	-	
6.746e+04					600.0	0.0	-606.59	-5.07e-06	0.0	-8.76e-04	-	
10	9	3.816e+04	1.69e-03	-0.20	-1082.61	0.0	0.0	633.61	-3.96e-06	0.0	1.69e-03	-
5.317e+04		-5.317e+04	-6.84e-04	0.0	0.0	300.0	0.0	-24.77	-3.96e-06	0.0	5.03e-04	
3.816e+04					600.0	0.0	-449.00	-3.96e-06	0.0	-6.84e-04	-	
4.843e+04					600.0	0.0	-449.00	-3.96e-06	0.0	-6.84e-04	-	
11	2	9.032e+04	1.887e+04	0.47	-1586.81	0.0	-2884.09	952.86	93.35	-39.12	-2.251e+04	
1.422e+04		-1.891e+04	-2.251e+04	-0.30	0.0	221.7	-3230.98	-191.84	93.35	-39.12	-1820.14	
8.559e+04					443.3	-3364.96	-633.95	93.35	-39.12	1.887e+04	-	
1.891e+04					443.3	-3364.96	-633.95	93.35	-39.12	1.887e+04	-	
11	3	2.196e+04	4715.09	0.12	-397.40	0.0	-755.34	222.58	23.23	-27.46	-5582.08	
3369.70		-5083.04	-5582.08	-0.08	0.0	221.7	-835.07	-40.54	23.23	-27.46	-433.50	
2.117e+04					443.3	-875.77	-174.82	23.23	-27.46	4715.09	-	
5083.04					443.3	-875.77	-174.82	23.23	-27.46	4715.09	-	
11	5	2.426e+04	5189.26	0.13	-437.23	0.0	-826.12	247.27	25.58	-27.59	-6149.78	
3735.91		-5541.02	-6149.78	-0.08	0.0	221.7	-914.91	-45.72	25.58	-27.59	-480.26	
2.333e+04					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
5541.02					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
11	6	6.191e+04	1.296e+04	0.32	-1089.62	0.0	-1985.68	651.75	64.08	-29.67	-1.545e+04	
9734.79		-1.304e+04	-1.545e+04	-0.21	0.0	221.7	-2222.75	-130.54	64.08	-29.67	-1246.29	
5.873e+04					443.3	-2315.89	-437.87	64.08	-29.67	1.296e+04	-	
1.304e+04					443.3	-2315.89	-437.87	64.08	-29.67	1.296e+04	-	
11	7	2.426e+04	5189.26	0.13	-437.23	0.0	-826.12	247.27	25.58	-27.59	-6149.78	
3735.91		-5541.02	-6149.78	-0.08	0.0	221.7	-914.91	-45.72	25.58	-27.59	-480.26	
2.333e+04					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
5541.02					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
11	8	3.179e+04	6742.75	0.17	-567.70	0.0	-1058.03	328.17	33.28	-28.01	-8009.69	
4935.69		-7041.44	-8009.69	-0.11	0.0	221.7	-1176.48	-62.68	33.28	-28.01	-633.47	
3.041e+04					443.3	-1230.07	-239.54	33.28	-28.01	6742.75	-	
7041.44					443.3	-1230.07	-239.54	33.28	-28.01	6742.75	-	
11	9	2.426e+04	5189.26	0.13	-437.23	0.0	-826.12	247.27	25.58	-27.59	-6149.78	
3735.91		-5541.02	-6149.78	-0.08	0.0	221.7	-914.91	-45.72	25.58	-27.59	-480.26	
2.333e+04					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
5541.02					443.3	-958.62	-189.95	25.58	-27.59	5189.26	-	
12	1	1.754e+04	2037.13	-0.09	-533.28	0.0	0.0	112.95	15.02	544.48	-4271.30	
6877.43		-3.316e+04	-4271.30	9.42e-03	0.0	210.0	0.0	-62.31	15.02	544.48	-1117.09	
1.602e+04					420.0	0.0	-420.33	15.02	544.48	2037.13	-	
3.316e+04					420.0	0.0	-420.33	15.02	544.48	2037.13	-	
12	2	4.628e+04	5336.59	-0.24	-1453.56	0.0	0.0	277.17	39.35	1423.09	-1.119e+04	
1.715e+04		-9.092e+04	-1.119e+04	0.02	0.0	210.0	0.0	-148.60	39.35	1423.09	-2926.39	
4.324e+04					420.0	0.0	-1176.39	39.35	1423.09	5336.59	-	
9.092e+04					420.0	0.0	-1176.39	39.35	1423.09	5336.59	-	
12	5	1.259e+04	1463.73	-0.06	-381.40	0.0	0.0	81.74	10.79	391.33	-3069.04	
4968.61		-2.370e+04	-3069.04	6.77e-03	0.0	210.0	0.0	-45.23	10.79	391.33	-802.66	
1.147e+04					420.0	0.0	-299.66	10.79	391.33	1463.73	-	
2.370e+04					420.0	0.0	-299.66	10.79	391.33	1463.73	-	
12	6	3.176e+04	3663.37	-0.17	-994.93	0.0	0.0	191.23	27.01	977.07	-7681.09	
1.182e+04					420.0	0.0	-299.66	10.79	391.33	1463.73	-	

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2.962e+04	-6.221e+04	-7681.09	0.02	0.0	210.0	0.0	-102.76	27.01	977.07	-2008.86	
					420.0	0.0	-803.70	27.01	977.07	3663.37	-
6.221e+04 12 4968.61	7 1.259e+04	1463.73	-0.06	-381.40	0.0	0.0	81.74	10.79	391.33	-3069.04	
	-2.370e+04	-3069.04	6.77e-03	0.0	210.0	0.0	-45.23	10.79	391.33	-802.66	
1.147e+04					420.0	0.0	-299.66	10.79	391.33	1463.73	-
2.370e+04 12 6338.83	8 1.643e+04	1903.66	-0.08	-504.11	0.0	0.0	103.64	14.04	508.47	-3991.45	
	-3.140e+04	-3991.45	8.80e-03	0.0	210.0	0.0	-56.73	14.04	508.47	-1043.90	
1.510e+04					420.0	0.0	-400.47	14.04	508.47	1903.66	-
3.140e+04 12 4968.61	9 1.259e+04	1463.73	-0.06	-381.40	0.0	0.0	81.74	10.79	391.33	-3069.04	
	-2.370e+04	-3069.04	6.77e-03	0.0	210.0	0.0	-45.23	10.79	391.33	-802.66	
1.147e+04					420.0	0.0	-299.66	10.79	391.33	1463.73	-
2.370e+04 13 5935.99	1 1.735e+04	343.73	-0.09	-533.28	0.0	0.0	117.72	5.44	-45.06	-1940.67	
	-3.209e+04	-1940.67	-9.97e-03	0.0	210.0	0.0	-57.54	5.44	-45.06	-798.47	
1.608e+04					420.0	0.0	-415.56	5.44	-45.06	343.73	-
3.209e+04 13 1.475e+04	2 4.581e+04	913.38	-0.24	-1453.56	0.0	0.0	289.42	14.16	-117.24	-5032.79	
	-8.818e+04	-5032.79	-0.03	0.0	210.0	0.0	-136.36	14.16	-117.24	-2059.70	
4.341e+04					420.0	0.0	-1164.14	14.16	-117.24	913.38	-
8.818e+04 13 4290.15	5 1.246e+04	246.57	-0.06	-381.40	0.0	0.0	85.18	3.91	-32.40	-1396.02	
	-2.293e+04	-1396.02	-7.15e-03	0.0	210.0	0.0	-41.79	3.91	-32.40	-574.72	
1.151e+04					420.0	0.0	-296.23	3.91	-32.40	246.57	-
2.293e+04 13 1.017e+04	6 3.143e+04	626.34	-0.17	-994.93	0.0	0.0	199.65	9.72	-80.52	-3457.43	
	-6.032e+04	-3457.43	-0.02	0.0	210.0	0.0	-94.34	9.72	-80.52	-1415.55	
2.974e+04					420.0	0.0	-795.28	9.72	-80.52	626.34	-
6.032e+04 13 4290.15	7 1.246e+04	246.57	-0.06	-381.40	0.0	0.0	85.18	3.91	-32.40	-1396.02	
	-2.293e+04	-1396.02	-7.15e-03	0.0	210.0	0.0	-41.79	3.91	-32.40	-574.72	
1.151e+04					420.0	0.0	-296.23	3.91	-32.40	246.57	-
2.293e+04 13 5465.64	8 1.625e+04	322.53	-0.09	-504.11	0.0	0.0	108.07	5.07	-42.03	-1808.30	
	-3.041e+04	-1808.30	-9.35e-03	0.0	210.0	0.0	-52.30	5.07	-42.03	-742.89	
1.516e+04					420.0	0.0	-396.04	5.07	-42.03	322.53	-
3.041e+04 13 4290.15	9 1.246e+04	246.57	-0.06	-381.40	0.0	0.0	85.18	3.91	-32.40	-1396.02	
	-2.293e+04	-1396.02	-7.15e-03	0.0	210.0	0.0	-41.79	3.91	-32.40	-574.72	
1.151e+04					420.0	0.0	-296.23	3.91	-32.40	246.57	-
2.293e+04 14 8855.82	2 1.133e+04	0.0	0.31	-297.48	0.0	911.11	61.33	100.93	-156.32	-1.790e+04	
	0.0	-1.790e+04	-0.10	0.0	88.7	939.15	-31.20	100.93	-156.32	-8948.63	
1.102e+04					177.3	1001.26	-236.15	100.93	-156.32	0.0	0.0
14 2235.13	3 3343.60	0.0	0.08	-97.11	0.0	170.93	29.08	25.73	-31.30	-4563.17	
	0.0	-4563.17	-0.03	0.0	88.7	182.53	-9.17	25.73	-31.30	-2281.58	
3270.15					177.3	200.36	-68.03	25.73	-31.30	0.0	0.0
14 2456.56	5 3603.38	0.0	0.08	-103.48	0.0	196.57	29.96	28.24	-35.60	-5008.44	

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3522.11		0.0	-5008.44	-0.03	0.0	88.7	208.65	-9.89	28.24	-35.60	-2504.22	
14	6	7858.77	0.0	0.21	-207.87	177.3	227.93	-73.53	28.24	-35.60	0.0	0.0
6083.80						0.0	616.52	44.29	69.38	-106.09	-1.230e+04	
7649.47		0.0	-1.230e+04	-0.07	0.0	88.7	636.51	-21.64	69.38	-106.09	-6151.23	
14	7	3603.38	0.0	0.08	-103.48	177.3	679.52	-163.57	69.38	-106.09	0.0	0.0
2456.56						0.0	196.57	29.96	28.24	-35.60	-5008.44	
3522.11		0.0	-5008.44	-0.03	0.0	88.7	208.65	-9.89	28.24	-35.60	-2504.22	
14	8	4454.46	0.0	0.11	-124.36	177.3	227.93	-73.53	28.24	-35.60	0.0	0.0
3182.01						0.0	280.56	32.82	36.47	-49.70	-6467.24	
4347.58		0.0	-6467.24	-0.04	0.0	88.7	294.22	-12.24	36.47	-49.70	-3233.62	
14	9	3603.38	0.0	0.08	-103.48	177.3	318.25	-91.54	36.47	-49.70	0.0	0.0
2456.56						0.0	196.57	29.96	28.24	-35.60	-5008.44	
3522.11		0.0	-5008.44	-0.03	0.0	88.7	208.65	-9.89	28.24	-35.60	-2504.22	
15	2	0.0	0.0	0.80	-1535.76	177.3	227.93	-73.53	28.24	-35.60	0.0	0.0
4.340e+04		-1.755e+05	-4.280e+04	0.31	0.0	0.0	2397.13	-70.23	-186.08	-5615.09	0.0	0.0
						115.0	2397.13	-726.56	-186.08	-5615.09	-2.140e+04	-
1.755e+05						230.0	2397.13	-1605.99	-186.08	-5615.09	-4.280e+04	-
15	3	0.0	0.0	0.20	-339.32	0.0	607.48	-25.86	-46.82	-1370.21	0.0	0.0
1.111e+04		-4.180e+04	-1.077e+04	0.08	0.0	115.0	607.48	-175.07	-46.82	-1370.21	-5384.62	-
4.180e+04						230.0	607.48	-365.19	-46.82	-1370.21	-1.077e+04	-
15	5	0.0	0.0	0.22	-380.06	0.0	667.30	-27.23	-51.48	-1512.89	0.0	0.0
1.219e+04		-4.630e+04	-1.184e+04	0.08	0.0	115.0	667.30	-193.64	-51.48	-1512.89	-5920.47	-
4.630e+04						230.0	667.30	-407.28	-51.48	-1512.89	-1.184e+04	-
15	6	0.0	0.0	0.55	-1047.36	0.0	1647.18	-49.54	-127.81	-3850.00	0.0	0.0
2.984e+04		-1.201e+05	-2.940e+04	0.21	0.0	115.0	1647.18	-497.81	-127.81	-3850.00	-1.470e+04	-
1.201e+05						230.0	1647.18	-1096.90	-127.81	-3850.00	-2.940e+04	-
15	7	0.0	0.0	0.22	-380.06	0.0	667.30	-27.23	-51.48	-1512.89	0.0	0.0
1.219e+04		-4.630e+04	-1.184e+04	0.08	0.0	115.0	667.30	-193.64	-51.48	-1512.89	-5920.47	-
4.630e+04						230.0	667.30	-407.28	-51.48	-1512.89	-1.184e+04	-
15	8	0.0	0.0	0.29	-513.52	0.0	863.28	-31.69	-66.75	-1980.31	0.0	0.0
1.572e+04		-6.107e+04	-1.535e+04	0.11	0.0	115.0	863.28	-254.47	-66.75	-1980.31	-7676.01	-
6.107e+04						230.0	863.28	-545.21	-66.75	-1980.31	-1.535e+04	-
15	9	0.0	0.0	0.22	-380.06	0.0	667.30	-27.23	-51.48	-1512.89	0.0	0.0
1.219e+04		-4.630e+04	-1.184e+04	0.08	0.0	115.0	667.30	-193.64	-51.48	-1512.89	-5920.47	-
4.630e+04						230.0	667.30	-407.28	-51.48	-1512.89	-1.184e+04	-
16	1	7041.12	8209.59	0.01	-915.14	0.0	0.0	659.43	70.71	0.0	-1.646e+04	-
6.470e+04		-6.470e+04	-1.646e+04	0.01	0.0	174.5	0.0	133.38	70.71	0.0	-4127.66	
3713.08						348.9	0.0	-255.71	70.71	0.0	8209.59	-
9315.85	2	2.225e+04	2.094e+04	0.03	-2671.72	0.0	0.0	1888.01	182.67	0.0	-4.280e+04	-
1.755e+05		-1.755e+05	-4.280e+04	0.03	0.0	174.5	0.0	326.58	182.67	0.0	-1.093e+04	
1.528e+04						348.9	0.0	-783.70	182.67	0.0	2.094e+04	-
3.237e+04	5	4940.00	5916.39	9.34e-03	-648.96	0.0	0.0	468.79	50.89	0.0	-1.184e+04	-
4.630e+04		-4.630e+04	-1.184e+04	9.45e-03	0.0	174.5	0.0	96.55	50.89	0.0	-2962.28	
2494.24						348.9	0.0	-180.17	50.89	0.0	5916.39	-
6444.38												

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RELAZIONE STRUTTURE - TABULATI

16	6	1.508e+04	1.441e+04	0.02	-1820.01	0.0	0.0	1287.85	125.53	0.0-2.940e+04	-
1.201e+05		-1.201e+05	-2.940e+04	0.02	0.0	174.5	0.0	225.35	125.53	0.0	-7494.94
1.020e+04						348.9	0.0	-532.17	125.53	0.0	1.441e+04
2.181e+04											-
16	7	4940.00	5916.39	9.34e-03	-648.96	0.0	0.0	468.79	50.89	0.0-1.184e+04	-
4.630e+04		-4.630e+04	-1.184e+04	9.45e-03	0.0	174.5	0.0	96.55	50.89	0.0	-2962.28
2494.24						348.9	0.0	-180.17	50.89	0.0	5916.39
6444.38											-
16	8	6968.35	7614.40	0.01	-883.17	0.0	0.0	632.61	65.82	0.0-1.535e+04	-
6.107e+04		-6.107e+04	-1.535e+04	0.01	0.0	174.5	0.0	122.31	65.82	0.0	-3868.81
4035.94						348.9	0.0	-250.57	65.82	0.0	7614.40
9517.97											-
16	9	4940.00	5916.39	9.34e-03	-648.96	0.0	0.0	468.79	50.89	0.0-1.184e+04	-
4.630e+04		-4.630e+04	-1.184e+04	9.45e-03	0.0	174.5	0.0	96.55	50.89	0.0	-2962.28
2494.24						348.9	0.0	-180.17	50.89	0.0	5916.39
6444.38											-
17	2	1.266e+05	0.0	-0.86	-2323.51	0.0	1729.14	1354.03	0.0	3074.92	0.0 0.0
1.258e+05		0.0	0.0	-0.02	0.0	210.0	1729.14	-108.72	0.0	3074.92	0.0
						420.0	1729.14	-969.48	0.0	3074.92	0.0 0.0
17	3	2.866e+04	0.0	-0.21	-531.43	0.0	439.88	300.98	0.0	751.80	0.0 0.0
2.860e+04		0.0	0.0	-2.93e-03	0.0	210.0	439.88	-19.94	0.0	751.80	0.0
						420.0	439.88	-230.46	0.0	751.80	0.0 0.0
17	5	3.199e+04	0.0	-0.23	-592.19	0.0	482.94	336.81	0.0	829.86	0.0 0.0
3.190e+04		0.0	0.0	-3.37e-03	0.0	210.0	482.94	-23.02	0.0	829.86	0.0
						420.0	482.94	-255.38	0.0	829.86	0.0 0.0
17	6	8.645e+04	0.0	-0.59	-1587.46	0.0	1188.44	923.71	0.0	2108.55	0.0 0.0
8.592e+04		0.0	0.0	-0.01	0.0	210.0	1188.44	-73.50	0.0	2108.55	0.0
						420.0	1188.44	-663.75	0.0	2108.55	0.0 0.0
17	7	3.199e+04	0.0	-0.23	-592.19	0.0	482.94	336.81	0.0	829.86	0.0 0.0
3.190e+04		0.0	0.0	-3.37e-03	0.0	210.0	482.94	-23.02	0.0	829.86	0.0
						420.0	482.94	-255.38	0.0	829.86	0.0 0.0
17	8	4.288e+04	0.0	-0.30	-791.25	0.0	624.04	454.19	0.0	1085.60	0.0 0.0
4.270e+04		0.0	0.0	-4.81e-03	0.0	210.0	624.04	-33.12	0.0	1085.60	0.0
						420.0	624.04	-337.06	0.0	1085.60	0.0 0.0
17	9	3.199e+04	0.0	-0.23	-592.19	0.0	482.94	336.81	0.0	829.86	0.0 0.0
3.190e+04		0.0	0.0	-3.37e-03	0.0	210.0	482.94	-23.02	0.0	829.86	0.0
						420.0	482.94	-255.38	0.0	829.86	0.0 0.0
18	2	2.097e+05	0.0	-0.90	-3494.47	0.0	241.62	1747.24	0.0	-310.27	0.0 0.0
2.097e+05		0.0	0.0	0.03	0.0	240.0	241.61	-4.01e-06	0.0	-310.27	0.0
						480.0	241.61	-1747.24	0.0	-310.27	0.0 0.0
18	3	4.567e+04	0.0	-0.19	-761.22	0.0	69.11	380.61	0.0	-63.70	0.0 0.0
4.567e+04		0.0	0.0	5.93e-03	0.0	240.0	69.11	4.47e-06	0.0	-63.70	0.0
						480.0	69.11	-380.61	0.0	-63.70	0.0 0.0
18	5	5.127e+04	0.0	-0.22	-854.44	0.0	74.76	427.22	0.0	-72.16	0.0 0.0
5.127e+04		0.0	0.0	6.63e-03	0.0	240.0	74.76	5.77e-06	0.0	-72.16	0.0
						480.0	74.76	-427.22	0.0	-72.16	0.0 0.0
18	6	1.429e+05	0.0	-0.61	-2381.43	0.0	167.28	1190.71	0.0	-210.82	0.0 0.0
1.429e+05		0.0	0.0	0.02	0.0	240.0	167.28	-2.77e-06	0.0	-210.82	0.0
						480.0	167.28	-1190.71	0.0	-210.82	0.0 0.0
18	7	5.127e+04	0.0	-0.22	-854.44	0.0	74.76	427.22	0.0	-72.16	0.0 0.0
5.127e+04		0.0	0.0	6.63e-03	0.0	240.0	74.76	5.77e-06	0.0	-72.16	0.0
						480.0	74.76	-427.22	0.0	-72.16	0.0 0.0
18	8	6.959e+04	0.0	-0.30	-1159.84	0.0	93.26	579.92	0.0	-99.90	0.0 0.0
6.959e+04		0.0	0.0	8.92e-03	0.0	240.0	93.26	4.06e-06	0.0	-99.90	0.0
						480.0	93.26	-579.92	0.0	-99.90	0.0 0.0

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18	9	5.127e+04	0.0	-0.22	-854.44	0.0	74.76	427.22	0.0	-72.16	0.0 0.0
		0.0	0.0	6.63e-03	0.0	240.0	74.76	5.77e-06	0.0	-72.16	0.0
5.127e+04											
19	1	3980.04	0.0	0.11	-265.34	480.0	74.76	-427.22	0.0	-72.16	0.0 0.0
		0.0	0.0	-0.06	0.0	0.0	-443.96	126.72	0.0	-2357.39	0.0 0.0
3980.04						60.0	-443.96	2.97	0.0	-2357.39	0.0
19	2	1.134e+04	0.0	0.31	-756.15	120.0	-443.96	-138.61	0.0	-2357.39	0.0 0.0
		0.0	0.0	-0.15	0.0	0.0	-1190.81	358.50	0.0	-6382.80	0.0 0.0
1.134e+04						60.0	-1190.80	9.79	0.0	-6382.80	0.0
19	3	2531.46	0.0	0.07	-168.76	120.0	-1190.80	-397.65	0.0	-6382.80	0.0 0.0
		0.0	0.0	-0.04	0.0	0.0	-287.73	80.79	0.0	-1523.54	0.0 0.0
2531.46						60.0	-287.73	1.80	0.0	-1523.54	0.0
19	5	2831.09	0.0	0.08	-188.74	120.0	-287.73	-87.97	0.0	-1523.54	0.0 0.0
		0.0	0.0	-0.04	0.0	0.0	-318.13	90.22	0.0	-1687.36	0.0 0.0
2831.09						60.0	-318.13	2.07	0.0	-1687.36	0.0
19	6	7739.26	0.0	0.21	-515.95	120.0	-318.13	-98.51	0.0	-1687.36	0.0 0.0
		0.0	0.0	-0.10	0.0	0.0	-816.02	244.74	0.0	-4370.97	0.0 0.0
7739.26						60.0	-816.02	6.62	0.0	-4370.97	0.0
19	7	2831.09	0.0	0.08	-188.74	120.0	-816.02	-271.21	0.0	-4370.97	0.0 0.0
		0.0	0.0	-0.04	0.0	0.0	-318.13	90.22	0.0	-1687.36	0.0 0.0
2831.09						60.0	-318.13	2.07	0.0	-1687.36	0.0
19	8	3812.72	0.0	0.11	-254.18	120.0	-318.13	-98.51	0.0	-1687.36	0.0 0.0
		0.0	0.0	-0.05	0.0	0.0	-417.71	121.13	0.0	-2224.08	0.0 0.0
3812.72						60.0	-417.71	2.98	0.0	-2224.08	0.0
19	9	2831.09	0.0	0.08	-188.74	120.0	-417.71	-133.05	0.0	-2224.08	0.0 0.0
		0.0	0.0	-0.04	0.0	0.0	-318.13	90.22	0.0	-1687.36	0.0 0.0
2831.09						60.0	-318.13	2.07	0.0	-1687.36	0.0
20	1	4.334e+04	0.0	-0.43	-412.78	120.0	-318.13	-98.51	0.0	-1687.36	0.0 0.0
		0.0	0.0	0.0	0.0	0.0	0.0	206.39	0.0	0.0	0.0 0.0
4.334e+04						420.0	0.0	-7.14e-06	0.0	0.0	0.0
20	5	3.334e+04	0.0	-0.33	-317.52	840.0	0.0	-206.39	0.0	0.0	0.0 0.0
		0.0	0.0	0.0	0.0	0.0	0.0	158.76	0.0	0.0	0.0 0.0
3.334e+04						420.0	0.0	-5.49e-06	0.0	0.0	0.0
20	7	3.334e+04	0.0	-0.33	-317.52	840.0	0.0	-158.76	0.0	0.0	0.0 0.0
		0.0	0.0	0.0	0.0	0.0	0.0	158.76	0.0	0.0	0.0 0.0
3.334e+04						420.0	0.0	-5.49e-06	0.0	0.0	0.0
20	9	3.334e+04	0.0	-0.33	-317.52	840.0	0.0	-158.76	0.0	0.0	0.0 0.0
		0.0	0.0	0.0	0.0	0.0	0.0	158.76	0.0	0.0	0.0 0.0
3.334e+04						420.0	0.0	-5.49e-06	0.0	0.0	0.0
21	1	7264.30	0.0	-0.05	-147.42	840.0	0.0	-158.76	0.0	0.0	0.0 0.0
		0.0	-215.55	-9.84e-03	0.0	0.0	-5039.63	81.03	-0.66	1817.37	0.0 0.0
7208.98						163.2	-5008.04	7.32	-0.66	1817.37	-107.77
						326.4	-4976.45	-66.39	-0.66	1817.37	-215.55
2388.85											
21	2	1.342e+04	434.07	-0.12	-147.42	0.0	-1.234e+04	110.10	1.33	4842.37	0.0 0.0
		0.0	0.0	-0.03	0.0	163.2	-1.231e+04	36.39	1.33	4842.37	217.03
1.195e+04											
						326.4	-1.228e+04	-37.32	1.33	4842.37	434.07
1.188e+04											
21	3	5203.79	0.0	-0.03	-113.40	0.0	-3350.64	60.24	-0.65	1180.17	0.0 0.0
		0.0	-212.58	-6.42e-03	0.0	163.2	-3326.34	3.54	-0.65	1180.17	-106.29
5203.79											
						326.4	-3302.04	-53.16	-0.65	1180.17	-212.58
1154.41											
21	4	1.147e+04	437.04	-0.11	-113.40	0.0	-1.066e+04	89.31	1.34	4205.16	0.0 0.0
		0.0	0.0	-0.02	0.0	163.2	-1.063e+04	32.61	1.34	4205.16	218.52
9947.73											
						326.4	-1.061e+04	-24.09	1.34	4205.16	437.04
1.064e+04											
21	5	5420.85	0.0	-0.04	-113.40	0.0	-3647.94	61.42	-0.57	1303.28	0.0 0.0
		0.0	-186.14	-7.07e-03	0.0	163.2	-3623.64	4.72	-0.57	1303.28	-93.07
5396.86											
						326.4	-3599.34	-51.98	-0.57	1303.28	-186.14

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1540.55												
21	6	9383.71	246.93	-0.09	-113.40	0.0	-8518.03	80.80	0.76	3319.94	0.0	0.0
		0.0	0.0	-0.02	0.0	163.2	-8493.73	24.10	0.76	3319.94	123.47	
8559.48												
						326.4	-8469.43	-32.60	0.76	3319.94	246.93	
7865.80												
21	7	5420.85	0.0	-0.04	-113.40	0.0	-3647.94	61.42	-0.57	1303.28	0.0	0.0
		0.0	-186.14	-7.07e-03	0.0	163.2	-3623.64	4.72	-0.57	1303.28	-93.07	
5396.86												
						326.4	-3599.34	-51.98	-0.57	1303.28	-186.14	
1540.55												
21	8	6132.44	0.0	-0.05	-113.40	0.0	-4621.96	65.30	-0.30	1706.61	0.0	0.0
		0.0	-99.53	-9.21e-03	0.0	163.2	-4597.66	8.60	-0.30	1706.61	-49.76	
6029.38												
						326.4	-4573.36	-48.10	-0.30	1706.61	-99.53	
2805.60												
21	9	5420.85	0.0	-0.04	-113.40	0.0	-3647.94	61.42	-0.57	1303.28	0.0	0.0
		0.0	-186.14	-7.07e-03	0.0	163.2	-3623.64	4.72	-0.57	1303.28	-93.07	
5396.86												
						326.4	-3599.34	-51.98	-0.57	1303.28	-186.14	
1540.55												
22	1	8285.51	0.0	4.22e-03	-58.97	0.0	-923.47	-23.87	29.56	-1791.74	-4591.18	
8285.51												
		0.0	-4591.18	0.04	0.0	77.6	-899.25	-53.35	29.56	-1791.74	-2295.59	
5287.43												
						155.3	-875.04	-82.84	29.56	-1791.74	0.0	0.0
22	2	2.220e+04	0.0	9.87e-03	-58.97	0.0	-2276.95	-113.47	74.09	-4755.76	-1.151e+04	
2.220e+04												
		0.0	-1.151e+04	0.10	0.0	77.6	-2252.73	-142.95	74.09	-4755.76	-5752.57	
1.224e+04												
						155.3	-2228.51	-172.44	74.09	-4755.76	0.0	0.0
22	3	5371.58	0.0	2.84e-03	-45.36	0.0	-612.91	-11.91	19.54	-1164.84	-3033.85	
5371.58												
		0.0	-3033.85	0.02	0.0	77.6	-594.28	-34.59	19.54	-1164.84	-1516.92	
3566.31												
						155.3	-575.65	-57.27	19.54	-1164.84	0.0	0.0
22	5	5937.87	0.0	3.07e-03	-45.36	0.0	-667.99	-15.56	21.35	-1285.47	-3315.23	
5937.87												
		0.0	-3315.23	0.03	0.0	77.6	-649.36	-38.24	21.35	-1285.47	-1657.61	
3849.45												
						155.3	-630.73	-60.92	21.35	-1285.47	0.0	0.0
22	6	1.521e+04	0.0	6.83e-03	-45.36	0.0	-1570.31	-75.29	51.03	-3261.48	-7924.54	
1.521e+04												
		0.0	-7924.54	0.07	0.0	77.6	-1551.68	-97.97	51.03	-3261.48	-3962.27	
8487.58												
						155.3	-1533.05	-120.65	51.03	-3261.48	0.0	0.0
22	7	5937.87	0.0	3.07e-03	-45.36	0.0	-667.99	-15.56	21.35	-1285.47	-3315.23	
5937.87												
		0.0	-3315.23	0.03	0.0	77.6	-649.36	-38.24	21.35	-1285.47	-1657.61	
3849.45												
						155.3	-630.73	-60.92	21.35	-1285.47	0.0	0.0
22	8	7793.12	0.0	3.82e-03	-45.36	0.0	-848.46	-27.50	27.28	-1680.67	-4237.09	
7793.12												
		0.0	-4237.09	0.04	0.0	77.6	-829.83	-50.18	27.28	-1680.67	-2118.55	
4777.08												
						155.3	-811.20	-72.86	27.28	-1680.67	0.0	0.0
22	9	5937.87	0.0	3.07e-03	-45.36	0.0	-667.99	-15.56	21.35	-1285.47	-3315.23	
5937.87												
		0.0	-3315.23	0.03	0.0	77.6	-649.36	-38.24	21.35	-1285.47	-1657.61	
3849.45												
						155.3	-630.73	-60.92	21.35	-1285.47	0.0	0.0
23	1	1.575e+04	-343.73	-0.08	-533.28	0.0	0.0	409.45	-5.44	45.06	-343.73	-
3.209e+04												
		-3.209e+04	-2628.14	-9.97e-03	0.0	210.0	0.0	51.42	-5.44	45.06	-1485.93	
1.479e+04												
						420.0	0.0	-123.83	-5.44	45.06	-2628.14	
3367.83												
23	2	4.199e+04	-913.37	-0.22	-1453.56	0.0	0.0	1148.19	-14.16	117.23	-913.37	-
8.818e+04												
		-8.818e+04	-6859.59	-0.03	0.0	210.0	0.0	120.41	-14.16	117.23	-3886.48	
4.007e+04												
						420.0	0.0	-305.37	-14.16	117.23	-6859.59	
8054.92												
23	3	1.025e+04	-223.39	-0.05	-343.95	0.0	0.0	261.77	-3.56	29.46	-223.39	-
2.065e+04												
		-2.065e+04	-1716.97	-6.48e-03	0.0	210.0	0.0	34.59	-3.56	29.46	-970.18	

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9559.57												
					420.0	0.0	-82.18	-3.56	29.46	-1716.97		
2253.16												
23	5	1.130e+04	-246.57	-0.06	-381.40	0.0	0.0	291.83	-3.91	32.40	-246.57	-
2.293e+04		-2.293e+04	-1889.18	-7.15e-03	0.0	210.0	0.0	37.40	-3.91	32.40	-1067.87	
1.059e+04												
					420.0	0.0	-89.57	-3.91	32.40	-1889.18		
2443.91												
23	6	2.878e+04	-626.34	-0.15	-994.93	0.0	0.0	784.33	-9.72	80.52	-626.34	-
6.032e+04		-6.032e+04	-4710.14	-0.02	0.0	210.0	0.0	83.39	-9.72	80.52	-2668.24	
2.744e+04												
					420.0	0.0	-210.60	-9.72	80.52	-4710.14		
5568.63												
23	7	1.130e+04	-246.57	-0.06	-381.40	0.0	0.0	291.83	-3.91	32.40	-246.57	-
2.293e+04		-2.293e+04	-1889.18	-7.15e-03	0.0	210.0	0.0	37.40	-3.91	32.40	-1067.87	
1.059e+04												
					420.0	0.0	-89.57	-3.91	32.40	-1889.18		
2443.91												
23	8	1.475e+04	-322.52	-0.08	-504.11	0.0	0.0	390.33	-5.07	42.02	-322.52	-
3.041e+04		-3.041e+04	-2453.37	-9.35e-03	0.0	210.0	0.0	46.60	-5.07	42.02	-1387.95	
1.396e+04												
					420.0	0.0	-113.78	-5.07	42.02	-2453.37		
3068.85												
23	9	1.130e+04	-246.57	-0.06	-381.40	0.0	0.0	291.83	-3.91	32.40	-246.57	-
2.293e+04		-2.293e+04	-1889.18	-7.15e-03	0.0	210.0	0.0	37.40	-3.91	32.40	-1067.87	
1.059e+04												
					420.0	0.0	-89.57	-3.91	32.40	-1889.18		
2443.91												
24	2	1.202e+04	0.0	-3.31e-03	-58.97	0.0	-1.036e+04	-62.62	10.23	3924.76	-1336.11	
1.202e+04		0.0	-1336.11	-0.01	0.0	65.3	-1.035e+04	-92.10	10.23	3924.76	-668.05	
6974.47												
24	3	1511.56	0.0	-7.93e-04	-45.36	130.6	-1.034e+04	-121.58	10.23	3924.76	0.0	0.0
1273.31						0.0	-2827.05	12.93	4.84	963.12	-631.29	
		0.0	-631.29	-3.59e-03	0.0	65.3	-2817.33	-9.75	4.84	963.12	-315.64	
1376.91												
24	5	1799.58	0.0	-8.77e-04	-45.36	130.6	-2807.61	-32.43	4.84	963.12	0.0	0.0
1659.19						0.0	-3075.83	9.97	4.98	1062.58	-650.47	
		0.0	-650.47	-3.82e-03	0.0	65.3	-3066.11	-12.71	4.98	1062.58	-325.24	
1569.85												
24	6	7980.17	0.0	-2.27e-03	-45.36	130.6	-3056.39	-35.39	4.98	1062.58	0.0	0.0
7980.17						0.0	-7151.17	-38.44	7.39	2691.88	-964.68	
		0.0	-964.68	-7.55e-03	0.0	65.3	-7141.45	-61.12	7.39	2691.88	-482.34	
4730.34												
24	7	1799.58	0.0	-8.77e-04	-45.36	130.6	-7131.73	-83.80	7.39	2691.88	0.0	0.0
1659.19						0.0	-3075.83	9.97	4.98	1062.58	-650.47	
		0.0	-650.47	-3.82e-03	0.0	65.3	-3066.11	-12.71	4.98	1062.58	-325.24	
1569.85												
24	8	2923.38	0.0	-1.15e-03	-45.36	130.6	-3056.39	-35.39	4.98	1062.58	0.0	0.0
2923.38						0.0	-3890.90	0.29	5.46	1388.44	-713.31	
		0.0	-713.31	-4.57e-03	0.0	65.3	-3881.18	-22.39	5.46	1388.44	-356.66	
2201.94												
24	9	1799.58	0.0	-8.77e-04	-45.36	130.6	-3871.46	-45.07	5.46	1388.44	0.0	0.0
1659.19						0.0	-3075.83	9.97	4.98	1062.58	-650.47	
		0.0	-650.47	-3.82e-03	0.0	65.3	-3066.11	-12.71	4.98	1062.58	-325.24	
1569.85												
25	1	2089.22	922.20	-0.01	-58.97	130.6	-3056.39	-35.39	4.98	1062.58	0.0	0.0
		0.0	0.0	-0.14	0.0	0.0	-873.45	39.84	5.94	731.29	0.0	0.0
1948.69						77.6	-897.67	10.35	5.94	731.29	461.10	
						155.3	-921.89	-19.13	5.94	731.29	922.20	
1608.02												
25	2	4723.91	2870.07	-0.03	-58.97	0.0	-2223.15	59.90	18.48	1993.87	0.0	0.0
		0.0	0.0	-0.37	0.0	77.6	-2247.37	30.42	18.48	1993.87	1435.04	
3506.63												

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						155.3	-2271.59	0.94	18.48	1993.87	2870.07	
4723.91												
25	3	1458.35	569.13	-7.21e-03	-45.36	0.0	-574.70	29.20	3.66	471.62	0.0	0.0
		0.0	0.0	-0.09	0.0	77.6	-593.33	6.52	3.66	471.62	284.57	
1386.81												
						155.3	-611.96	-16.16	3.66	471.62	569.13	
1012.59												
25	5	1540.03	648.40	-7.87e-03	-45.36	0.0	-629.63	30.02	4.18	523.00	0.0	0.0
		0.0	0.0	-0.10	0.0	77.6	-648.26	7.34	4.18	523.00	324.20	
1450.22												
						155.3	-666.89	-15.34	4.18	523.00	648.40	
1139.40												
25	6	3221.98	1946.99	-0.02	-45.36	0.0	-1529.43	43.39	12.54	1364.72	0.0	0.0
		0.0	0.0	-0.26	0.0	77.6	-1548.06	20.71	12.54	1364.72	973.49	
2488.85												
						155.3	-1566.69	-1.97	12.54	1364.72	1946.99	
3216.65												
25	7	1540.03	648.40	-7.87e-03	-45.36	0.0	-629.63	30.02	4.18	523.00	0.0	0.0
		0.0	0.0	-0.10	0.0	77.6	-648.26	7.34	4.18	523.00	324.20	
1450.22												
						155.3	-666.89	-15.34	4.18	523.00	648.40	
1139.40												
25	8	1826.52	908.12	-0.01	-45.36	0.0	-809.59	32.69	5.85	691.35	0.0	0.0
		0.0	0.0	-0.13	0.0	77.6	-828.22	10.01	5.85	691.35	454.06	
1657.94												
						155.3	-846.85	-12.67	5.85	691.35	908.12	
1554.85												
25	9	1540.03	648.40	-7.87e-03	-45.36	0.0	-629.63	30.02	4.18	523.00	0.0	0.0
		0.0	0.0	-0.10	0.0	77.6	-648.26	7.34	4.18	523.00	324.20	
1450.22												
						155.3	-666.89	-15.34	4.18	523.00	648.40	
1139.40												
26	2	2.082e+04	1.297e+05	0.14	-147.42	0.0	-1.229e+04	10.27	-397.34	-3664.80	1.297e+05	
2.071e+04		0.0	0.0	0.30	0.0	163.2	-1.233e+04	-63.44	-397.34	-3664.80	6.484e+04	
1.637e+04												
						326.4	-1.236e+04	-137.15	-397.34	-3664.80	0.0	0.0
26	3	6471.44	3.219e+04	0.04	-113.40	0.0	-3305.57	46.26	-98.64	-884.17	3.219e+04	
3408.26		0.0	0.0	0.07	0.0	163.2	-3329.87	-10.44	-98.64	-884.17	1.610e+04	
6330.71												
						326.4	-3354.17	-67.14	-98.64	-884.17	0.0	0.0
26	4	1.829e+04	1.125e+05	0.12	-113.40	0.0	-1.062e+04	0.66	-344.71	-3184.25	1.125e+05	
1.829e+04		0.0	0.0	0.26	0.0	163.2	-1.064e+04	-56.04	-344.71	-3184.25	5.626e+04	
1.377e+04												
						326.4	-1.067e+04	-112.74	-344.71	-3184.25	0.0	0.0
26	5	6846.11	3.546e+04	0.04	-113.40	0.0	-3603.19	44.40	-108.65	-977.78	3.546e+04	
4013.91		0.0	0.0	0.08	0.0	163.2	-3627.49	-12.30	-108.65	-977.78	1.773e+04	
6633.54												
						326.4	-3651.79	-69.00	-108.65	-977.78	0.0	0.0
26	6	1.422e+04	8.901e+04	0.10	-113.40	0.0	-8478.50	14.01	-272.70	-2511.16	8.901e+04	
1.394e+04		0.0	0.0	0.20	0.0	163.2	-8502.80	-42.69	-272.70	-2511.16	4.450e+04	
1.159e+04												
						326.4	-8527.10	-99.39	-272.70	-2511.16	0.0	0.0
26	7	6846.11	3.546e+04	0.04	-113.40	0.0	-3603.19	44.40	-108.65	-977.78	3.546e+04	
4013.91		0.0	0.0	0.08	0.0	163.2	-3627.49	-12.30	-108.65	-977.78	1.773e+04	
6633.54												
						326.4	-3651.79	-69.00	-108.65	-977.78	0.0	0.0
26	8	8099.69	4.617e+04	0.05	-113.40	0.0	-4578.25	38.32	-141.46	-1284.46	4.617e+04	
5998.14		0.0	0.0	0.11	0.0	163.2	-4602.55	-18.38	-141.46	-1284.46	2.309e+04	
7625.65												
						326.4	-4626.85	-75.08	-141.46	-1284.46	0.0	0.0
26	9	6846.11	3.546e+04	0.04	-113.40	0.0	-3603.19	44.40	-108.65	-977.78	3.546e+04	
4013.91		0.0	0.0	0.08	0.0	163.2	-3627.49	-12.30	-108.65	-977.78	1.773e+04	
6633.54												
						326.4	-3651.79	-69.00	-108.65	-977.78	0.0	0.0
28	2	1.117e+05	4.797e+04	-0.05	-1605.96	0.0	-279.62	1522.73	172.91	2.860e+04	-1.885e+04	-
1.336e+05		-1.336e+05	-1.885e+04	-0.01	0.0	193.2	13.80	587.86	172.91	2.860e+04	1.456e+04	
6.600e+04												

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1.105e+05						386.4	224.43	-83.23	172.91	2.860e+04	4.797e+04	
28	6	7.635e+04	3.327e+04	-0.04	-1186.17	0.0	-204.80	1090.43	119.74	1.988e+04	-1.300e+04	-
9.490e+04		-9.490e+04	-1.300e+04	-9.94e-03	0.0	193.2	9.33	408.19	119.74	1.988e+04	1.013e+04	
4.701e+04						386.4	167.49	-95.74	119.74	1.988e+04	3.327e+04	
7.432e+04	8	4.286e+04	1.880e+04	-0.02	-990.23	0.0	-163.80	768.12	66.91	1.143e+04	-7056.48	-
28		-6.340e+04	-7056.48	-5.73e-03	0.0	193.2	4.20	232.84	66.91	1.143e+04	5871.64	
6.340e+04						386.4	146.99	-222.10	66.91	1.143e+04	1.880e+04	
3.201e+04	9	3.565e+04	1.518e+04	-0.02	-941.24	0.0	-153.55	687.55	53.71	9322.15	-5569.72	-
3.175e+04		-5.552e+04	-5569.72	-4.68e-03	0.0	193.2	2.92	189.00	53.71	9322.15	4806.55	
28						386.4	141.87	-253.69	53.71	9322.15	1.518e+04	
5.552e+04	1	3571.13	4.778e+04	-4.74e-03	-58.97	0.0	-4188.51	56.82	365.97	-540.13	0.0	0.0
28		0.0	0.0	-0.10	0.0	65.3	-4201.14	27.33	365.97	-540.13	2.389e+04	
2746.64						130.6	-4213.78	-2.15	365.97	-540.13	4.778e+04	
3568.62	2	1.463e+04	1.255e+05	-0.01	-58.97	0.0	-1.025e+04	141.57	961.00	-1476.12	0.0	0.0
29		0.0	0.0	-0.26	0.0	65.3	-1.026e+04	112.08	961.00	-1476.12	6.273e+04	
8278.80						130.6	-1.027e+04	82.60	961.00	-1476.12	1.255e+05	
1.463e+04	3	2034.18	3.116e+04	-3.12e-03	-45.36	0.0	-2785.78	37.60	238.67	-348.09	0.0	0.0
29		0.0	0.0	-0.06	0.0	65.3	-2795.50	14.92	238.67	-348.09	1.558e+04	
1714.46						130.6	-2805.22	-7.76	238.67	-348.09	3.116e+04	
1948.42	5	2422.73	3.432e+04	-3.42e-03	-45.36	0.0	-3032.30	41.05	262.89	-386.18	0.0	0.0
29		0.0	0.0	-0.07	0.0	65.3	-3042.02	18.37	262.89	-386.18	1.716e+04	
1939.61						130.6	-3051.74	-4.31	262.89	-386.18	3.432e+04	
2398.71	6	9774.93	8.611e+04	-8.30e-03	-45.36	0.0	-7070.54	97.55	659.57	-1010.17	0.0	0.0
29		0.0	0.0	-0.18	0.0	65.3	-7080.26	74.87	659.57	-1010.17	4.306e+04	
5627.72						130.6	-7089.98	52.19	659.57	-1010.17	8.611e+04	
9774.93	7	2422.73	3.432e+04	-3.42e-03	-45.36	0.0	-3032.30	41.05	262.89	-386.18	0.0	0.0
29		0.0	0.0	-0.07	0.0	65.3	-3042.02	18.37	262.89	-386.18	1.716e+04	
1939.61						130.6	-3051.74	-4.31	262.89	-386.18	3.432e+04	
2398.71	8	3873.96	4.468e+04	-4.40e-03	-45.36	0.0	-3839.95	52.35	342.22	-510.98	0.0	0.0
29		0.0	0.0	-0.09	0.0	65.3	-3849.67	29.67	342.22	-510.98	2.234e+04	
2677.23						130.6	-3859.39	6.99	342.22	-510.98	4.468e+04	
3873.96	9	2422.73	3.432e+04	-3.42e-03	-45.36	0.0	-3032.30	41.05	262.89	-386.18	0.0	0.0
29		0.0	0.0	-0.07	0.0	65.3	-3042.02	18.37	262.89	-386.18	1.716e+04	
1939.61						130.6	-3051.74	-4.31	262.89	-386.18	3.432e+04	
2398.71	1	4.334e+04	0.0	-0.43	-412.78	0.0	0.0	206.39	0.0	0.0	0.0	0.0
30		0.0	0.0	0.0	0.0	420.0	0.0	-7.14e-06	0.0	0.0	0.0	0.0
4.334e+04						840.0	0.0	-206.39	0.0	0.0	0.0	0.0
30	5	3.334e+04	0.0	-0.33	-317.52	0.0	0.0	158.76	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	420.0	0.0	-5.49e-06	0.0	0.0	0.0	0.0
3.334e+04						840.0	0.0	-158.76	0.0	0.0	0.0	0.0
30	7	3.334e+04	0.0	-0.33	-317.52	0.0	0.0	158.76	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	420.0	0.0	-5.49e-06	0.0	0.0	0.0	0.0
3.334e+04						840.0	0.0	-158.76	0.0	0.0	0.0	0.0
30	9	3.334e+04	0.0	-0.33	-317.52	0.0	0.0	158.76	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	420.0	0.0	-5.49e-06	0.0	0.0	0.0	0.0
3.334e+04						840.0	0.0	-158.76	0.0	0.0	0.0	0.0

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31	1	1.301e+04	0.0	-0.06	-147.42	0.0	-4372.02	108.44	-3.17	1455.48	0.0 0.0
		0.0	-1035.40	-5.74e-03	0.0	163.2	-4340.43	34.73	-3.17	1455.48	-517.70
1.168e+04											
						326.4	-4308.84	-38.98	-3.17	1455.48	-1035.40
1.134e+04											
31	2	3.943e+04	0.0	-0.17	-147.42	0.0	-1.116e+04	194.52	-6.53	3835.64	0.0 0.0
		0.0	-2131.70	-0.02	0.0	163.2	-1.113e+04	120.81	-6.53	3835.64	-1065.85
2.573e+04											
						326.4	-1.110e+04	47.10	-6.53	3835.64	-2131.70
3.943e+04											
31	3	8579.77	0.0	-0.04	-113.40	0.0	-2874.04	77.22	-2.20	948.22	0.0 0.0
		0.0	-717.53	-3.74e-03	0.0	163.2	-2849.74	20.52	-2.20	948.22	-358.76
7974.80											
						326.4	-2825.44	-36.18	-2.20	948.22	-717.53
6696.44											
31	5	9365.90	0.0	-0.05	-113.40	0.0	-3150.46	80.72	-2.34	1045.09	0.0 0.0
		0.0	-762.14	-4.13e-03	0.0	163.2	-3126.16	24.02	-2.34	1045.09	-381.07
8546.53											
						326.4	-3101.86	-32.68	-2.34	1045.09	-762.14
7839.90											
31	6	2.657e+04	0.0	-0.12	-113.40	0.0	-7678.51	138.11	-4.57	2631.86	0.0 0.0
		0.0	-1493.00	-0.01	0.0	163.2	-7654.21	81.41	-4.57	2631.86	-746.50
1.791e+04											
						326.4	-7629.91	24.71	-4.57	2631.86	-1493.00
2.657e+04											
31	7	9365.90	0.0	-0.05	-113.40	0.0	-3150.46	80.72	-2.34	1045.09	0.0 0.0
		0.0	-762.14	-4.13e-03	0.0	163.2	-3126.16	24.02	-2.34	1045.09	-381.07
8546.53											
						326.4	-3101.86	-32.68	-2.34	1045.09	-762.14
7839.90											
31	8	1.223e+04	0.0	-0.06	-113.40	0.0	-4056.07	92.20	-2.78	1362.44	0.0 0.0
		0.0	-908.32	-5.37e-03	0.0	163.2	-4031.77	35.50	-2.78	1362.44	-454.16
1.042e+04											
						326.4	-4007.47	-21.20	-2.78	1362.44	-908.32
1.159e+04											
31	9	9365.90	0.0	-0.05	-113.40	0.0	-3150.46	80.72	-2.34	1045.09	0.0 0.0
		0.0	-762.14	-4.13e-03	0.0	163.2	-3126.16	24.02	-2.34	1045.09	-381.07
8546.53											
						326.4	-3101.86	-32.68	-2.34	1045.09	-762.14
7839.90											
32	2	8512.64	0.0	0.08	-58.97	0.0	-3583.82	-25.33	83.49	-3206.48	-1.297e+04
8512.64											
		0.0	-1.297e+04	0.03	0.0	77.6	-3559.60	-54.82	83.49	-3206.48	-6482.93
5400.99											
						155.3	-3535.38	-84.30	83.49	-3206.48	0.0 0.0
32	3	1974.59	0.0	0.02	-45.36	0.0	-902.45	11.40	20.66	-798.90	-3208.15
1752.27											
		0.0	-3208.15	6.37e-03	0.0	77.6	-883.82	-11.28	20.66	-798.90	-1604.07
1756.65											
						155.3	-865.19	-33.96	20.66	-798.90	0.0 0.0
32	5	2148.80	0.0	0.02	-45.36	0.0	-992.16	9.90	22.77	-879.58	-3535.46
1984.29											
		0.0	-3535.46	7.12e-03	0.0	77.6	-973.53	-12.78	22.77	-879.58	-1767.73
1872.66											
						155.3	-954.90	-35.46	22.77	-879.58	0.0 0.0
32	6	5784.99	0.0	0.05	-45.36	0.0	-2461.69	-14.57	57.29	-2201.14	-8897.09
5784.99											
		0.0	-8897.09	0.02	0.0	77.6	-2443.06	-37.25	57.29	-2201.14	-4448.55
3773.01											
						155.3	-2424.43	-59.93	57.29	-2201.14	0.0 0.0
32	7	2148.80	0.0	0.02	-45.36	0.0	-992.16	9.90	22.77	-879.58	-3535.46
1984.29											
		0.0	-3535.46	7.12e-03	0.0	77.6	-973.53	-12.78	22.77	-879.58	-1767.73
1872.66											
						155.3	-954.90	-35.46	22.77	-879.58	0.0 0.0
32	8	2786.60	0.0	0.03	-45.36	0.0	-1286.07	5.01	29.67	-1143.89	-4607.78
2744.43											
		0.0	-4607.78	9.55e-03	0.0	77.6	-1267.44	-17.67	29.67	-1143.89	-2303.89
2252.73											
						155.3	-1248.81	-40.35	29.67	-1143.89	0.0 0.0
32	9	2148.80	0.0	0.02	-45.36	0.0	-992.16	9.90	22.77	-879.58	-3535.46
1984.29											
		0.0	-3535.46	7.12e-03	0.0	77.6	-973.53	-12.78	22.77	-879.58	-1767.73
1872.66											
						155.3	-954.90	-35.46	22.77	-879.58	0.0 0.0
33	1	1.575e+04	2628.13	-0.08	-533.28	0.0	0.0	409.45	5.44	-45.06	343.73 -

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3.209e+04												
	-3.209e+04	343.73	9.97e-03	0.0	210.0	0.0	51.42	5.44	-45.06	1485.93		
1.479e+04					420.0	0.0	-123.83	5.44	-45.06	2628.13		
3367.92												
33	2 4.199e+04	6859.55	-0.22	-1453.56	0.0	0.0	1148.19	14.16	-117.24	913.38	-	
8.818e+04												
	-8.818e+04	913.38	0.03	0.0	210.0	0.0	120.41	14.16	-117.24	3886.47		
4.007e+04					420.0	0.0	-305.37	14.16	-117.24	6859.55		
8055.14												
33	3 1.025e+04	1716.96	-0.05	-343.95	0.0	0.0	261.77	3.56	-29.46	223.39	-	
2.065e+04												
	-2.065e+04	223.39	6.48e-03	0.0	210.0	0.0	34.59	3.56	-29.46	970.17		
9559.59					420.0	0.0	-82.18	3.56	-29.46	1716.96		
2253.21												
33	5 1.130e+04	1889.17	-0.06	-381.40	0.0	0.0	291.83	3.91	-32.40	246.57	-	
2.293e+04												
	-2.293e+04	246.57	7.15e-03	0.0	210.0	0.0	37.40	3.91	-32.40	1067.87		
1.059e+04					420.0	0.0	-89.57	3.91	-32.40	1889.17		
2443.97												
33	6 2.878e+04	4710.12	-0.15	-994.93	0.0	0.0	784.33	9.72	-80.52	626.34	-	
6.032e+04												
	-6.032e+04	626.34	0.02	0.0	210.0	0.0	83.39	9.72	-80.52	2668.23		
2.744e+04					420.0	0.0	-210.60	9.72	-80.52	4710.12		
5568.78												
33	7 1.130e+04	1889.17	-0.06	-381.40	0.0	0.0	291.83	3.91	-32.40	246.57	-	
2.293e+04												
	-2.293e+04	246.57	7.15e-03	0.0	210.0	0.0	37.40	3.91	-32.40	1067.87		
1.059e+04					420.0	0.0	-89.57	3.91	-32.40	1889.17		
2443.97												
33	8 1.475e+04	2453.36	-0.08	-504.11	0.0	0.0	390.33	5.07	-42.03	322.53	-	
3.041e+04												
	-3.041e+04	322.53	9.35e-03	0.0	210.0	0.0	46.60	5.07	-42.03	1387.94		
1.396e+04					420.0	0.0	-113.78	5.07	-42.03	2453.36		
3068.93												
33	9 1.130e+04	1889.17	-0.06	-381.40	0.0	0.0	291.83	3.91	-32.40	246.57	-	
2.293e+04												
	-2.293e+04	246.57	7.15e-03	0.0	210.0	0.0	37.40	3.91	-32.40	1067.87		
1.059e+04					420.0	0.0	-89.57	3.91	-32.40	1889.17		
2443.97												
34	1 1.115e+04	0.0	0.02	-58.97	0.0	-3150.87	-55.92	8.45	1420.41	-1103.07		
1.115e+04												
	0.0	-1103.07	-5.42e-03	0.0	65.3	-3138.23	-85.40	8.45	1420.41	-551.53		
6537.32												
					130.6	-3125.60	-114.89	8.45	1420.41	0.0 0.0		
34	2 3.889e+04	0.0	0.06	-58.97	0.0	-7938.74	-268.42	17.79	3736.98	-2322.02		
3.889e+04												
	0.0	-2322.02	-0.01	0.0	65.3	-7926.11	-297.90	17.79	3736.98	-1161.01		
2.041e+04												
					130.6	-7913.47	-327.39	17.79	3736.98	0.0 0.0		
34	3 6579.29	0.0	0.01	-45.36	0.0	-2079.00	-27.71	5.83	925.82	-760.75		
6579.29												
	0.0	-760.75	-3.66e-03	0.0	65.3	-2069.28	-50.39	5.83	925.82	-380.37		
4029.90												
					130.6	-2059.56	-73.07	5.83	925.82	0.0 0.0		
34	5 7708.37	0.0	0.01	-45.36	0.0	-2273.86	-36.36	6.21	1020.10	-810.35		
7708.37												
	0.0	-810.35	-3.94e-03	0.0	65.3	-2264.14	-59.04	6.21	1020.10	-405.18		
4594.44												
					130.6	-2254.42	-81.72	6.21	1020.10	0.0 0.0		
34	6 2.620e+04	0.0	0.04	-45.36	0.0	-5465.77	-178.03	12.43	2564.48	-1622.99		
2.620e+04												
	0.0	-1622.99	-8.67e-03	0.0	65.3	-5456.05	-200.71	12.43	2564.48	-811.49		
1.384e+04												
					130.6	-5446.33	-223.39	12.43	2564.48	0.0 0.0		
34	7 7708.37	0.0	0.01	-45.36	0.0	-2273.86	-36.36	6.21	1020.10	-810.35		
7708.37												
	0.0	-810.35	-3.94e-03	0.0	65.3	-2264.14	-59.04	6.21	1020.10	-405.18		
4594.44												

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34	8	1.141e+04	0.0	0.02	-45.36	130.6	-2254.42	-81.72	6.21	1020.10	0.0 0.0
1.141e+04						0.0	-2912.24	-64.70	7.45	1328.97	-972.88
6443.99		0.0	-972.88	-4.89e-03	0.0	65.3	-2902.52	-87.38	7.45	1328.97	-486.44
34	9	7708.37	0.0	0.01	-45.36	130.6	-2892.80	-110.06	7.45	1328.97	0.0 0.0
7708.37						0.0	-2273.86	-36.36	6.21	1020.10	-810.35
4594.44		0.0	-810.35	-3.94e-03	0.0	65.3	-2264.14	-59.04	6.21	1020.10	-405.18
35	2	8401.21	0.0	0.05	-58.97	130.6	-2254.42	-81.72	6.21	1020.10	0.0 0.0
5345.28		0.0	-9326.49	-0.31	0.0	0.0	-3531.86	83.58	-60.06	214.38	0.0 0.0
						77.6	-3556.08	54.10	-60.06	214.38	-4663.24
8401.21						155.3	-3580.29	24.61	-60.06	214.38	-9326.49
35	3	1957.09	0.0	0.01	-45.36	0.0	-864.41	33.81	-14.78	48.68	0.0 0.0
1744.99		0.0	-2295.64	-0.08	0.0	77.6	-883.04	11.13	-14.78	48.68	-1147.82
1728.93						155.3	-901.67	-11.55	-14.78	48.68	-2295.64
35	4	7355.82	0.0	0.05	-45.36	0.0	-3066.41	70.05	-52.13	186.84	0.0 0.0
4558.43		0.0	-8094.95	-0.27	0.0	77.6	-3085.04	47.37	-52.13	186.84	-4047.48
7355.82						155.3	-3103.67	24.69	-52.13	186.84	-8094.95
35	5	2128.84	0.0	0.01	-45.36	0.0	-954.03	35.29	-16.30	54.30	0.0 0.0
1859.49		0.0	-2531.65	-0.09	0.0	77.6	-972.66	12.61	-16.30	54.30	-1265.83
1957.94						155.3	-991.29	-10.07	-16.30	54.30	-2531.65
35	6	5709.20	0.0	0.04	-45.36	0.0	-2422.03	59.44	-41.20	146.41	0.0 0.0
3735.12		0.0	-6397.87	-0.21	0.0	77.6	-2440.66	36.76	-41.20	146.41	-3198.93
5709.20						155.3	-2459.29	14.08	-41.20	146.41	-6397.87
35	7	2128.84	0.0	0.01	-45.36	0.0	-954.03	35.29	-16.30	54.30	0.0 0.0
1859.49		0.0	-2531.65	-0.09	0.0	77.6	-972.66	12.61	-16.30	54.30	-1265.83
1957.94						155.3	-991.29	-10.07	-16.30	54.30	-2531.65
35	8	2754.89	0.0	0.02	-45.36	0.0	-1247.63	40.12	-21.28	72.72	0.0 0.0
2234.61		0.0	-3304.90	-0.11	0.0	77.6	-1266.26	17.44	-21.28	72.72	-1652.45
2708.19						155.3	-1284.89	-5.24	-21.28	72.72	-3304.90
35	9	2128.84	0.0	0.01	-45.36	0.0	-954.03	35.29	-16.30	54.30	0.0 0.0
1859.49		0.0	-2531.65	-0.09	0.0	77.6	-972.66	12.61	-16.30	54.30	-1265.83
1957.94						155.3	-991.29	-10.07	-16.30	54.30	-2531.65
36	1	3600.07	5.079e+04	0.03	-147.42	0.0	-4268.88	90.37	-155.62	-1094.73	5.079e+04 -
5436.21		-5436.21	0.0	0.11	0.0	163.2	-4300.47	16.66	-155.62	-1094.73	2.540e+04
3296.45						326.4	-4332.06	-57.05	-155.62	-1094.73	0.0 0.0
36	2	1707.00	1.330e+05	0.06	-147.42	0.0	-1.099e+04	108.07	-407.38	-2895.31	1.330e+05 -
1.122e+04		-1.122e+04	0.0	0.30	0.0	163.2	-1.102e+04	34.36	-407.38	-2895.31	6.648e+04
406.73						326.4	-1.105e+04	-39.35	-407.38	-2895.31	0.0 0.0
36	3	2925.33	3.316e+04	0.02	-113.40	0.0	-2799.98	68.24	-101.58	-712.45	3.316e+04 -
3765.56		-3765.56	0.0	0.07	0.0	163.2	-2824.28	11.54	-101.58	-712.45	1.658e+04
2743.80						326.4	-2848.58	-45.16	-101.58	-712.45	0.0 0.0
36	4	1083.69	1.153e+05	0.05	-113.40	0.0	-9518.77	85.94	-353.34	-2513.04	1.153e+05 -
9545.00		-9545.00	0.0	0.26	0.0	163.2	-9543.07	29.24	-353.34	-2513.04	5.766e+04 -
145.92						326.4	-9567.37	-27.46	-353.34	-2513.04	0.0 0.0
36	5	2837.13	3.650e+04	0.02	-113.40	0.0	-3073.42	68.96	-111.83	-785.73	3.650e+04 -
4000.77		-4000.77	0.0	0.08	0.0	163.2	-3097.72	12.26	-111.83	-785.73	1.825e+04
2626.20						326.4	-3122.02	-44.44	-111.83	-785.73	0.0 0.0

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36	6	1521.68	9.128e+04	0.04	-113.40	0.0	-7552.61	80.76	-279.67	-1986.12	9.128e+04	-
7853.73		-7853.73	0.0	0.20	0.0	163.2	-7576.91	24.06	-279.67	-1986.12	4.564e+04	
699.72												
36	7	2837.13	3.650e+04	0.02	-113.40	326.4	-7601.21	-32.64	-279.67	-1986.12	0.0 0.0	
4000.77		-4000.77	0.0	0.08	0.0	0.0	-3073.42	68.96	-111.83	-785.73	3.650e+04	-
2626.20						163.2	-3097.72	12.26	-111.83	-785.73	1.825e+04	
36	8	2548.16	4.746e+04	0.02	-113.40	326.4	-3122.02	-44.44	-111.83	-785.73	0.0 0.0	
4771.36		-4771.36	0.0	0.11	0.0	0.0	-3969.26	71.32	-145.40	-1025.81	4.746e+04	-
2240.90						163.2	-3993.56	14.62	-145.40	-1025.81	2.373e+04	
36	9	2837.13	3.650e+04	0.02	-113.40	326.4	-4017.86	-42.08	-145.40	-1025.81	0.0 0.0	
4000.77		-4000.77	0.0	0.08	0.0	0.0	-3073.42	68.96	-111.83	-785.73	3.650e+04	-
2626.20						163.2	-3097.72	12.26	-111.83	-785.73	1.825e+04	
38	2	1.118e+04	1.547e+04	-0.25	-1563.67	326.4	-3122.02	-44.44	-111.83	-785.73	0.0 0.0	
1.691e+05		-1.691e+05	0.0	0.04	0.0	0.0	-2261.99	1251.45	-42.97	-921.27	1.547e+04	-
1.416e+04						180.0	-2261.99	469.61	-42.97	-921.27	7733.94	-
38	3	2716.97	3877.45	-0.06	-377.04	360.0	-2261.99	-312.23	-42.97	-921.27	0.0 0.0	
4.065e+04		-4.065e+04	0.0	0.01	0.0	0.0	-623.09	301.44	-10.77	-202.70	3877.45	-
3359.05						180.0	-623.09	112.92	-10.77	-202.70	1938.73	-
38	5	3001.59	4265.49	-0.07	-416.99	360.0	-623.09	-75.60	-10.77	-202.70	0.0 0.0	
4.498e+04		-4.498e+04	0.0	0.01	0.0	0.0	-677.12	333.43	-11.85	-227.18	4265.49	-
3723.66						180.0	-677.12	124.94	-11.85	-227.18	2132.75	-
38	6	7663.96	1.062e+04	-0.17	-1071.42	360.0	-677.12	-83.56	-11.85	-227.18	0.0 0.0	
1.158e+05		-1.158e+05	0.0	0.03	0.0	0.0	-1562.26	857.43	-29.51	-628.15	1.062e+04	-
9696.33						180.0	-1562.26	321.72	-29.51	-628.15	5310.98	-
38	7	3001.59	4265.49	-0.07	-416.99	360.0	-1562.26	-213.99	-29.51	-628.15	0.0 0.0	
4.498e+04		-4.498e+04	0.0	0.01	0.0	0.0	-677.12	333.43	-11.85	-227.18	4265.49	-
3723.66						180.0	-677.12	124.94	-11.85	-227.18	2132.75	-
38	8	3934.07	5536.78	-0.09	-547.88	360.0	-677.12	-83.56	-11.85	-227.18	0.0 0.0	
5.915e+04		-5.915e+04	0.0	0.01	0.0	0.0	-854.15	438.23	-15.38	-307.38	5536.78	-
4918.19						180.0	-854.15	164.29	-15.38	-307.38	2768.39	-
38	9	3001.59	4265.49	-0.07	-416.99	360.0	-854.15	-109.65	-15.38	-307.38	0.0 0.0	
4.498e+04		-4.498e+04	0.0	0.01	0.0	0.0	-677.12	333.43	-11.85	-227.18	4265.49	-
3723.66						180.0	-677.12	124.94	-11.85	-227.18	2132.75	-
39	1	0.0	4.971e+04	0.02	-58.97	360.0	-677.12	-83.56	-11.85	-227.18	0.0 0.0	
2385.35		-6695.36	0.0	-0.10	0.0	0.0	-3165.05	-21.80	380.74	-531.16	0.0 0.0	
6695.36						65.3	-3177.68	-51.28	380.74	-531.16	2.485e+04	-
39	2	0.0	1.301e+05	0.05	-58.97	130.6	-3190.32	-80.77	380.74	-531.16	4.971e+04	-
6338.09		-1.460e+04	0.0	-0.27	0.0	0.0	-8038.87	-82.35	996.65	-1419.10	0.0 0.0	
1.460e+04						65.3	-8051.51	-111.84	996.65	-1419.10	6.506e+04	-
39	3	0.0	3.245e+04	9.83e-03	-45.36	130.6	-8064.15	-141.32	996.65	-1419.10	1.301e+05	-
1550.27		-4581.06	0.0	-0.07	0.0	0.0	-2083.72	-12.41	248.53	-344.65	0.0 0.0	
4581.06						65.3	-2093.44	-35.09	248.53	-344.65	1.622e+04	-
39	5	0.0	3.572e+04	0.01	-45.36	130.6	-2103.16	-57.77	248.53	-344.65	3.245e+04	-
1711.14		-4902.79	0.0	-0.07	0.0	0.0	-2282.07	-14.87	273.59	-380.79	0.0 0.0	
4902.79						65.3	-2291.79	-37.55	273.59	-380.79	1.786e+04	-
39	6	0.0	8.933e+04	0.03	-45.36	130.6	-2301.51	-60.23	273.59	-380.79	3.572e+04	-
						0.0	-5531.29	-55.24	684.20	-972.74	0.0 0.0	

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5191.64										
	-5191.64	-2910.21	-0.02	0.0	221.7	-947.78	45.03	22.06	-709.02	1980.11
2.352e+04										
					443.3	-858.99	-247.96	22.06	-709.02	6870.42
3780.36										
44	1 4.112e+04	31.01	0.09	-58.97	0.0	-2673.79	-285.51	-0.24	-472.29	31.01
4.112e+04										
	0.0	0.0	-1.44e-03	0.0	65.3	-2661.15	-315.00	-0.24	-472.29	15.50
2.152e+04										
					130.6	-2648.51	-344.48	-0.24	-472.29	0.0 0.0
44	2 1.249e+05	296.44	0.25	-58.97	0.0	-6213.25	-926.87	-2.27	-1302.67	296.44
1.249e+05										
	0.0	0.0	-3.27e-03	0.0	65.3	-6200.61	-956.35	-2.27	-1302.67	148.22
6.339e+04										
					130.6	-6187.98	-985.83	-2.27	-1302.67	0.0 0.0
44	3 2.561e+04	4.74	0.05	-45.36	0.0	-1801.90	-173.45	-0.04	-303.51	4.74
2.561e+04										
	0.0	0.0	-9.74e-04	0.0	65.3	-1792.18	-196.13	-0.04	-303.51	2.37
1.354e+04										
					130.6	-1782.46	-218.81	-0.04	-303.51	0.0 0.0
44	5 2.901e+04	15.54	0.06	-45.36	0.0	-1945.95	-199.55	-0.12	-337.30	15.54
2.901e+04										
	0.0	0.0	-1.05e-03	0.0	65.3	-1936.23	-222.23	-0.12	-337.30	7.77
1.525e+04										
					130.6	-1926.51	-244.91	-0.12	-337.30	0.0 0.0
44	6 8.483e+04	192.50	0.17	-45.36	0.0	-4305.59	-627.12	-1.47	-890.89	192.50
8.483e+04										
	0.0	0.0	-2.27e-03	0.0	65.3	-4295.87	-649.80	-1.47	-890.89	96.25
4.316e+04										
					130.6	-4286.15	-672.48	-1.47	-890.89	0.0 0.0
44	7 2.901e+04	15.54	0.06	-45.36	0.0	-1945.95	-199.55	-0.12	-337.30	15.54
2.901e+04										
	0.0	0.0	-1.05e-03	0.0	65.3	-1936.23	-222.23	-0.12	-337.30	7.77
1.525e+04										
					130.6	-1926.51	-244.91	-0.12	-337.30	0.0 0.0
44	8 4.018e+04	50.93	0.08	-45.36	0.0	-2417.88	-285.06	-0.39	-448.02	50.93
4.018e+04										
	0.0	0.0	-1.29e-03	0.0	65.3	-2408.16	-307.74	-0.39	-448.02	25.47
2.083e+04										
					130.6	-2398.44	-330.42	-0.39	-448.02	0.0 0.0
44	9 2.901e+04	15.54	0.06	-45.36	0.0	-1945.95	-199.55	-0.12	-337.30	15.54
2.901e+04										
	0.0	0.0	-1.05e-03	0.0	65.3	-1936.23	-222.23	-0.12	-337.30	7.77
1.525e+04										
					130.6	-1926.51	-244.91	-0.12	-337.30	0.0 0.0
45	2 9861.11	0.0	0.28	-58.97	0.0	-1825.03	92.98	-103.64	-1634.87	0.0 0.0
	0.0 -1.609e+04		0.14	0.0	77.6	-1849.25	63.50	-103.64	-1634.87	-8047.03
6075.23										
					155.3	-1873.47	34.02	-103.64	-1634.87	-1.609e+04
9861.11										
45	3 2276.87	0.0	0.06	-45.36	0.0	-489.31	36.47	-23.99	-381.86	0.0 0.0
	0.0 -3725.47		0.03	0.0	77.6	-507.94	13.79	-23.99	-381.86	-1862.74
1951.47										
					155.3	-526.57	-8.89	-23.99	-381.86	-3725.47
2141.91										
45	4 8612.83	0.0	0.25	-45.36	0.0	-1576.47	78.14	-90.24	-1422.87	0.0 0.0
	0.0 -1.401e+04		0.12	0.0	77.6	-1595.10	55.46	-90.24	-1422.87	-7006.71
5186.93										
					155.3	-1613.73	32.78	-90.24	-1422.87	-1.401e+04
8612.83										
45	5 2490.84	0.0	0.07	-45.36	0.0	-533.55	38.17	-26.69	-424.23	0.0 0.0
	0.0 -4144.17		0.03	0.0	77.6	-552.18	15.49	-26.69	-424.23	-2072.08
2083.15										
					155.3	-570.81	-7.19	-26.69	-424.23	-4144.17
2405.26										
45	6 6719.21	0.0	0.19	-45.36	0.0	-1258.33	65.95	-70.85	-1118.23	0.0 0.0
	0.0 -1.100e+04		0.09	0.0	77.6	-1276.96	43.27	-70.85	-1118.23	-5501.40
4240.12										
					155.3	-1295.59	20.59	-70.85	-1118.23	-1.100e+04
6719.21										
45	7 2490.84	0.0	0.07	-45.36	0.0	-533.55	38.17	-26.69	-424.23	0.0 0.0
	0.0 -4144.17		0.03	0.0	77.6	-552.18	15.49	-26.69	-424.23	-2072.08
2083.15										
					155.3	-570.81	-7.19	-26.69	-424.23	-4144.17
2405.26										
45	8 3270.17	0.0	0.09	-45.36	0.0	-678.51	43.72	-35.52	-563.03	0.0 0.0

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2.961e+04	-3.761e+04	-4095.33	1.61e-03	0.0	49.0	-2853.96	154.91	12.55	557.98	-3481.03	-
					97.9	-2861.25	137.90	12.55	557.98	-2866.73	-
2.244e+04	9 -1.590e+04	-2153.18	7.87e-03	-34.02	0.0	-2254.38	143.30	9.42	421.14	-3075.97	-
2.826e+04	-2.826e+04	-3075.97	1.23e-03	0.0	49.0	-2261.67	126.29	9.42	421.14	-2614.58	-
2.167e+04					97.9	-2268.96	109.28	9.42	421.14	-2153.18	-
1.590e+04	1 0.0	0.0	0.08	-58.97	0.0	-2771.09	-273.80	-27.43	211.38	0.0 0.0	-
1.884e+04	-3.960e+04	-3580.94	9.33e-03	0.0	65.3	-2783.73	-303.28	-27.43	211.38	-1790.47	-
					130.6	-2796.36	-332.77	-27.43	211.38	-3580.94	-
3.960e+04	2 0.0	0.0	0.25	-58.97	0.0	-6806.64	-810.53	-76.10	568.62	0.0 0.0	-
49	-1.097e+05	-9935.54	0.03	0.0	65.3	-6819.27	-840.01	-76.10	568.62	-4967.77	-
5.387e+04					130.6	-6831.91	-869.50	-76.10	568.62	-9935.54	-
1.097e+05	3 0.0	0.0	0.05	-45.36	0.0	-1841.04	-171.97	-17.59	136.88	0.0 0.0	-
49	-2.541e+04	-2297.02	6.01e-03	0.0	65.3	-1850.76	-194.65	-17.59	136.88	-1148.51	-
1.197e+04					130.6	-1860.48	-217.33	-17.59	136.88	-2297.02	-
2.541e+04	5 0.0	0.0	0.06	-45.36	0.0	-2005.27	-193.81	-19.57	151.42	0.0 0.0	-
49	-2.826e+04	-2555.64	6.67e-03	0.0	65.3	-2014.99	-216.49	-19.57	151.42	-1277.82	-
1.339e+04					130.6	-2024.71	-239.17	-19.57	151.42	-2555.64	-
2.826e+04	6 0.0	0.0	0.17	-45.36	0.0	-4695.64	-551.63	-52.02	389.58	0.0 0.0	-
49	-7.498e+04	-6792.03	0.02	0.0	65.3	-4705.36	-574.31	-52.02	389.58	-3396.02	-
3.675e+04					130.6	-4715.08	-596.99	-52.02	389.58	-6792.03	-
7.498e+04	7 0.0	0.0	0.06	-45.36	0.0	-2005.27	-193.81	-19.57	151.42	0.0 0.0	-
49	-2.826e+04	-2555.64	6.67e-03	0.0	65.3	-2014.99	-216.49	-19.57	151.42	-1277.82	-
1.339e+04					130.6	-2024.71	-239.17	-19.57	151.42	-2555.64	-
2.826e+04	8 0.0	0.0	0.08	-45.36	0.0	-2543.35	-265.38	-26.06	199.05	0.0 0.0	-
49	-3.761e+04	-3402.91	8.84e-03	0.0	65.3	-2553.07	-288.06	-26.06	199.05	-1701.46	-
1.806e+04					130.6	-2562.79	-310.74	-26.06	199.05	-3402.91	-
3.761e+04	9 0.0	0.0	0.06	-45.36	0.0	-2005.27	-193.81	-19.57	151.42	0.0 0.0	-
49	-2.826e+04	-2555.64	6.67e-03	0.0	65.3	-2014.99	-216.49	-19.57	151.42	-1277.82	-
1.339e+04					130.6	-2024.71	-239.17	-19.57	151.42	-2555.64	-
2.826e+04	2 3.313e+04	5758.62	-0.02	-1849.53	0.0	-324.31	1055.64	20.05	-356.33	-2849.05	-
50	-7.092e+04	-2849.05	-1.86e-03	0.0	214.7	17.03	-31.95	20.05	-356.33	1454.78	-
7.092e+04					429.4	256.17	-793.89	20.05	-356.33	5758.62	-
3.313e+04	6 2.437e+04	4072.54	-0.01	-1361.99	0.0	-236.77	769.08	14.18	-228.68	-2014.87	-
6.134e+04	-5.189e+04	-2014.87	-1.31e-03	0.0	214.7	11.52	-21.99	14.18	-228.68	1028.83	-
50					429.4	190.70	-592.91	14.18	-228.68	4072.54	-
5.189e+04	8 1.991e+04	2649.58	-0.01	-1120.09	0.0	-186.15	597.98	9.22	-47.73	-1310.87	-
2.437e+04	-4.125e+04	-1310.87	-8.55e-04	0.0	214.7	5.19	-11.66	9.22	-47.73	669.36	-
4.557e+04					429.4	165.40	-522.11	9.22	-47.73	2649.58	-
50	9 1.880e+04	2293.85	-0.01	-1059.61	0.0	-173.50	555.21	7.99	-2.49	-1134.87	-
4.125e+04	-3.859e+04	-1134.87	-7.41e-04	0.0	214.7	3.61	-9.08	7.99	-2.49	579.49	-
1.991e+04					429.4	159.07	-504.40	7.99	-2.49	2293.85	-
3.916e+04	2 9.032e+04	2.251e+04	0.47	-1586.81	0.0	-2884.09	952.86	-93.35	39.13	2.251e+04	-
50											-
3.859e+04											-
1.880e+04											-
3.755e+04											-
51											-
1.422e+04											-

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RELAZIONE STRUTTURE - TABULATI

8.559e+04	-1.891e+04	-1.887e+04	0.30	0.0	221.7	-3230.98	-191.85	-93.35	39.13	1820.15	
					443.3	-3364.96	-633.95	-93.35	39.13	-1.887e+04	-
1.891e+04 51 3369.95	3	2.196e+04	5582.07	0.12	-397.40	0.0	-755.34	222.58	-23.23	27.47	5582.07
		-5083.12	-4715.07	0.08	0.0	221.7	-835.07	-40.54	-23.23	27.47	433.50
2.117e+04					443.3	-875.77	-174.82	-23.23	27.47	-4715.07	-
5083.12 51 3736.18	5	2.426e+04	6149.77	0.13	-437.23	0.0	-826.12	247.27	-25.58	27.59	6149.77
		-5541.11	-5189.24	0.08	0.0	221.7	-914.91	-45.72	-25.58	27.59	480.26
2.333e+04					443.3	-958.62	-189.95	-25.58	27.59	-5189.24	-
5541.11 51 9735.45	6	6.191e+04	1.545e+04	0.32	-1089.62	0.0	-1985.68	651.75	-64.08	29.68	1.545e+04
		-1.304e+04	-1.296e+04	0.21	0.0	221.7	-2222.75	-130.54	-64.08	29.68	1246.29
5.873e+04					443.3	-2315.89	-437.87	-64.08	29.68	-1.296e+04	-
1.304e+04 51 3736.18	7	2.426e+04	6149.77	0.13	-437.23	0.0	-826.12	247.27	-25.58	27.59	6149.77
		-5541.11	-5189.24	0.08	0.0	221.7	-914.91	-45.72	-25.58	27.59	480.26
2.333e+04					443.3	-958.62	-189.95	-25.58	27.59	-5189.24	-
5541.11 51 4936.04	8	3.179e+04	8009.67	0.17	-567.70	0.0	-1058.03	328.17	-33.28	28.01	8009.67
		-7041.55	-6742.73	0.11	0.0	221.7	-1176.48	-62.69	-33.28	28.01	633.47
3.041e+04					443.3	-1230.07	-239.54	-33.28	28.01	-6742.73	-
7041.55 51 3736.18	9	2.426e+04	6149.77	0.13	-437.23	0.0	-826.12	247.27	-25.58	27.59	6149.77
		-5541.11	-5189.24	0.08	0.0	221.7	-914.91	-45.72	-25.58	27.59	480.26
2.333e+04					443.3	-958.62	-189.95	-25.58	27.59	-5189.24	-
5541.11 52 1.336e+05	2	1.117e+05	1.885e+04	-0.05	-1605.96	0.0	-279.62	1522.73	-172.91	-2.860e+04	1.885e+04
		-1.336e+05	-4.797e+04	0.01	0.0	193.2	13.80	587.86	-172.91	-2.860e+04	-1.456e+04
6.600e+04					386.4	224.43	-83.23	-172.91	-2.860e+04	-4.797e+04	
1.105e+05 52 9.489e+04	6	7.635e+04	1.300e+04	-0.04	-1186.17	0.0	-204.80	1090.43	-119.74	-1.988e+04	1.300e+04
		-9.489e+04	-3.327e+04	9.94e-03	0.0	193.2	9.33	408.19	-119.74	-1.988e+04	-1.013e+04
4.701e+04					386.4	167.49	-95.74	-119.74	-1.988e+04	-3.327e+04	
7.432e+04 52 6.340e+04	8	4.286e+04	7056.48	-0.02	-990.23	0.0	-163.80	768.12	-66.91	-1.143e+04	7056.48
		-6.340e+04	-1.880e+04	5.73e-03	0.0	193.2	4.20	232.84	-66.91	-1.143e+04	-5871.64
3.201e+04					386.4	146.99	-222.10	-66.91	-1.143e+04	-1.880e+04	
3.175e+04 52 5.552e+04	9	3.565e+04	5569.73	-0.02	-941.24	0.0	-153.55	687.55	-53.71	-9322.15	5569.73
		-5.552e+04	-1.518e+04	4.68e-03	0.0	193.2	2.92	189.00	-53.71	-9322.15	-4806.55
2.826e+04					386.4	141.87	-253.69	-53.71	-9322.15	-1.518e+04	
2.111e+04 53 1.351e+04	1	0.0	5244.52	0.10	-194.01	0.0	13.39	-176.68	43.70	34.07	0.0 0.0
		-3.284e+04	0.0	-0.02	0.0	60.0	13.39	-273.69	43.70	34.07	2622.26
					120.0	13.39	-370.69	43.70	34.07	5244.52	-
3.284e+04 53 3.702e+04	2	0.0	1.374e+04	0.27	-521.22	0.0	242.03	-486.73	114.52	96.46	0.0 0.0
		-8.968e+04	0.0	-0.04	0.0	60.0	242.03	-747.34	114.52	96.46	6870.97
					120.0	242.03	-1007.96	114.52	96.46	1.374e+04	-
8.968e+04 53 3	3	0.0	3422.40	0.07	-125.68	0.0	-6.16	-113.58	28.52	21.72	0.0 0.0
		-2.117e+04	0.0	-0.01	0.0	60.0	-6.16	-176.42	28.52	21.72	1711.20

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RELAZIONE STRUTTURE - TABULATI

55	2	5.000e+04	0.0	-0.27	-2500.24	0.0	0.0	1250.12	0.0	0.0	0.0	-
1.000e+05		-1.000e+05	0.0	0.0	0.0	240.0	0.0	-2.08e-06	0.0	0.0	0.0	
5.000e+04						480.0	0.0	-1250.12	0.0	0.0	0.0	-
1.000e+05	5	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-
55		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
2.454e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-
1.227e+04	6	3.408e+04	0.0	-0.19	-1704.25	0.0	0.0	852.12	0.0	0.0	0.0	-
2.454e+04		-6.817e+04	0.0	0.0	0.0	240.0	0.0	-1.38e-06	0.0	0.0	0.0	
55						480.0	0.0	-852.12	0.0	0.0	0.0	-
6.817e+04	7	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-
3.408e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
6.817e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-
55	8	1.663e+04	0.0	-0.09	-831.68	0.0	0.0	415.84	0.0	0.0	0.0	-
2.454e+04		-3.327e+04	0.0	0.0	0.0	240.0	0.0	3.50e-06	0.0	0.0	0.0	
3.327e+04						480.0	0.0	-415.84	0.0	0.0	0.0	-
1.663e+04	9	1.227e+04	0.0	-0.07	-613.54	0.0	0.0	306.77	0.0	0.0	0.0	-
3.327e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
55						480.0	0.0	-306.77	0.0	0.0	0.0	-
2.454e+04	2	9.091e+04 1.045e+04	-0.60	-1586.81	0.0	-3482.81	631.58	-78.87	2634.17	1.045e+04	-	
1.766e+04		-1.766e+04 -2.451e+04	0.09	0.0	221.7	-3348.83	189.47	-78.87	2634.17	-7031.60		
8.631e+04					443.3	-3001.94	-955.23	-78.87	2634.17	-2.451e+04		
1.442e+04	3	2.210e+04 2649.43	-0.15	-397.40	0.0	-905.70	174.19	-20.10	642.06	2649.43	-	
56		-4764.79 -6260.96	0.02	0.0	221.7	-865.01	39.91	-20.10	642.06	-1805.76		
4764.79					443.3	-785.27	-223.21	-20.10	642.06	-6260.96		
2.134e+04	5	2.442e+04 2910.16	-0.16	-437.23	0.0	-991.49	189.26	-22.06	709.02	2910.16	-	
3408.40		-5191.58 -6870.32	0.02	0.0	221.7	-947.78	45.03	-22.06	709.02	-1980.08		
56					443.3	-858.99	-247.96	-22.06	709.02	-6870.32		
5191.58	6	6.232e+04 7181.18	-0.41	-1089.62	0.0	-2396.88	436.23	-54.21	1806.01	7181.18	-	
2.352e+04		-1.218e+04 -1.685e+04	0.06	0.0	221.7	-2303.74	128.90	-54.21	1806.01	-4835.53		
3780.17					443.3	-2066.67	-653.38	-54.21	1806.01	-1.685e+04		
56	7	2.442e+04 2910.16	-0.16	-437.23	0.0	-991.49	189.26	-22.06	709.02	2910.16	-	
9869.99		-5191.58 -6870.32	0.02	0.0	221.7	-947.78	45.03	-22.06	709.02	-1980.08		
56					443.3	-858.99	-247.96	-22.06	709.02	-6870.32		
5191.58	8	3.200e+04 3764.37	-0.21	-567.70	0.0	-1272.57	238.66	-28.49	928.42	3764.37	-	
2.352e+04		-6589.83 -8866.71	0.03	0.0	221.7	-1218.98	61.81	-28.49	928.42	-2551.17		
3780.17					443.3	-1100.53	-329.05	-28.49	928.42	-8866.71		
56	9	2.442e+04 2910.16	-0.16	-437.23	0.0	-991.49	189.26	-22.06	709.02	2910.16	-	
6589.83		-5191.58 -6870.32	0.02	0.0	221.7	-947.78	45.03	-22.06	709.02	-1980.08		
3.066e+04												
4998.13												
56												
5191.58												
2.352e+04												

RELAZIONE STRUTTURE - TABULATI

1.553e+04						540.0	0.0	-345.12	0.0	0.0	0.0	-
3.106e+04												
59	1	6751.45	0.0	-0.02	-540.12	0.0	0.0	270.06	0.0	0.0	0.0	-
1.350e+04		-1.350e+04	0.0	0.0	0.0	150.0	0.0	1.16e-06	0.0	0.0	0.0	
6751.45						300.0	0.0	-270.06	0.0	0.0	0.0	-
1.350e+04												
59	2	1.953e+04	0.0	-0.05	-1562.65	0.0	0.0	781.33	0.0	0.0	0.0	-
3.907e+04		-3.907e+04	0.0	0.0	0.0	150.0	0.0	6.88e-06	0.0	0.0	0.0	
1.953e+04						300.0	0.0	-781.33	0.0	0.0	0.0	-
3.907e+04												
59	5	4793.28	0.0	-0.01	-383.46	0.0	0.0	191.73	0.0	0.0	0.0	-
9586.56		-9586.56	0.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0	
4793.28						300.0	0.0	-191.73	0.0	0.0	0.0	-
9586.56												
59	6	1.331e+04	0.0	-0.04	-1065.15	0.0	0.0	532.58	0.0	0.0	0.0	-
2.663e+04		-2.663e+04	0.0	0.0	0.0	150.0	0.0	4.20e-06	0.0	0.0	0.0	
1.331e+04						300.0	0.0	-532.58	0.0	0.0	0.0	-
2.663e+04												
59	7	4793.28	0.0	-0.01	-383.46	0.0	0.0	191.73	0.0	0.0	0.0	-
9586.56		-9586.56	0.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0	
4793.28						300.0	0.0	-191.73	0.0	0.0	0.0	-
9586.56												
59	8	6497.51	0.0	-0.02	-519.80	0.0	0.0	259.90	0.0	0.0	0.0	-
1.300e+04		-1.300e+04	0.0	0.0	0.0	150.0	0.0	1.15e-06	0.0	0.0	0.0	
6497.51						300.0	0.0	-259.90	0.0	0.0	0.0	-
1.300e+04												
59	9	4793.28	0.0	-0.01	-383.46	0.0	0.0	191.73	0.0	0.0	0.0	-
9586.56		-9586.56	0.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0	
4793.28						300.0	0.0	-191.73	0.0	0.0	0.0	-
9586.56												
60	1	1.663e+04	0.0	-0.02	-530.67	0.0	-590.88	265.34	0.0	-1473.85	0.0	0.0
		0.0	0.0	-0.10	0.0	120.0	-590.88	3.40e-06	0.0	-1473.85	0.0	
1.663e+04						240.0	-590.88	-265.34	0.0	-1473.85	0.0	0.0
60	2	4.772e+04	0.0	-0.07	-1512.31	0.0	-1574.92	756.15	0.0	-3847.20	0.0	0.0
		0.0	0.0	-0.27	0.0	120.0	-1574.92	-2.09e-06	0.0	-3847.20	0.0	
4.772e+04						240.0	-1574.92	-756.15	0.0	-3847.20	0.0	0.0
60	3	1.056e+04	0.0	-0.02	-337.53	0.0	-383.67	168.76	0.0	-962.84	0.0	0.0
		0.0	0.0	-0.07	0.0	120.0	-383.67	2.11e-06	0.0	-962.84	0.0	
1.056e+04						240.0	-383.67	-168.76	0.0	-962.84	0.0	0.0
60	5	1.182e+04	0.0	-0.02	-377.48	0.0	-423.72	188.74	0.0	-1059.43	0.0	0.0
		0.0	0.0	-0.07	0.0	120.0	-423.72	2.40e-06	0.0	-1059.43	0.0	
1.182e+04						240.0	-423.72	-188.74	0.0	-1059.43	0.0	0.0
60	6	3.255e+04	0.0	-0.05	-1031.90	0.0	-1079.74	515.95	0.0	-2641.66	0.0	0.0
		0.0	0.0	-0.19	0.0	120.0	-1079.74	-1.27e-06	0.0	-2641.66	0.0	
3.255e+04						240.0	-1079.74	-515.95	0.0	-2641.66	0.0	0.0
60	7	1.182e+04	0.0	-0.02	-377.48	0.0	-423.72	188.74	0.0	-1059.43	0.0	0.0
		0.0	0.0	-0.07	0.0	120.0	-423.72	2.40e-06	0.0	-1059.43	0.0	
1.182e+04						240.0	-423.72	-188.74	0.0	-1059.43	0.0	0.0
60	8	1.597e+04	0.0	-0.02	-508.36	0.0	-554.92	254.18	0.0	-1375.88	0.0	0.0
		0.0	0.0	-0.10	0.0	120.0	-554.92	1.66e-06	0.0	-1375.88	0.0	
1.597e+04						240.0	-554.92	-254.18	0.0	-1375.88	0.0	0.0
60	9	1.182e+04	0.0	-0.02	-377.48	0.0	-423.72	188.74	0.0	-1059.43	0.0	0.0
		0.0	0.0	-0.07	0.0	120.0	-423.72	2.40e-06	0.0	-1059.43	0.0	
1.182e+04												

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61	1	3.886e+04	1.661e+04	-0.28	-175.03	240.0	-423.72	-188.74	0.0	-1059.43	0.0 0.0
		0.0	0.0	-0.08	0.0	0.0	-219.65	289.58	93.67	-616.66	0.0 0.0
2.331e+04						88.7	-238.42	227.66	93.67	-616.66	8304.90
						177.3	-272.70	114.55	93.67	-616.66	1.661e+04
3.886e+04	2	1.027e+05	4.331e+04	-0.74	-409.89	0.0	-381.39	727.64	244.24	-1716.46	0.0 0.0
61		0.0	0.0	-0.21	0.0	88.7	-417.95	607.00	244.24	-1716.46	2.166e+04
6.041e+04						177.3	-505.61	317.75	244.24	-1716.46	4.331e+04
1.027e+05	3	2.530e+04	1.085e+04	-0.18	-117.73	0.0	-157.32	191.21	61.21	-395.17	0.0 0.0
61		0.0	0.0	-0.05	0.0	88.7	-170.47	147.81	61.21	-395.17	5427.09
1.526e+04						177.3	-193.00	73.48	61.21	-395.17	1.085e+04
2.530e+04	5	2.789e+04	1.194e+04	-0.20	-127.29	0.0	-163.90	209.04	67.34	-439.93	0.0 0.0
61		0.0	0.0	-0.06	0.0	88.7	-177.78	163.25	67.34	-439.93	5970.43
1.677e+04						177.3	-202.47	81.75	67.34	-439.93	1.194e+04
2.789e+04	6	7.042e+04	2.974e+04	-0.51	-283.86	0.0	-271.73	501.08	167.72	-1173.12	0.0 0.0
61		0.0	0.0	-0.14	0.0	88.7	-297.47	416.14	167.72	-1173.12	1.487e+04
4.150e+04						177.3	-357.75	217.22	167.72	-1173.12	2.974e+04
7.042e+04	7	2.789e+04	1.194e+04	-0.20	-127.29	0.0	-163.90	209.04	67.34	-439.93	0.0 0.0
61		0.0	0.0	-0.06	0.0	88.7	-177.78	163.25	67.34	-439.93	5970.43
1.677e+04						177.3	-202.47	81.75	67.34	-439.93	1.194e+04
2.789e+04	8	3.640e+04	1.550e+04	-0.26	-158.60	0.0	-185.47	267.45	87.41	-586.56	0.0 0.0
61		0.0	0.0	-0.07	0.0	88.7	-201.72	213.83	87.41	-586.56	7750.51
2.172e+04						177.3	-233.53	108.85	87.41	-586.56	1.550e+04
3.640e+04	9	2.789e+04	1.194e+04	-0.20	-127.29	0.0	-163.90	209.04	67.34	-439.93	0.0 0.0
61		0.0	0.0	-0.06	0.0	88.7	-177.78	163.25	67.34	-439.93	5970.43
1.677e+04						177.3	-202.47	81.75	67.34	-439.93	1.194e+04
2.789e+04	2	1.377e+05	4.279e+04	0.83	-1586.81	0.0	-3684.64	341.51	-96.52	2.38	4.279e+04
62		0.0	0.0	0.21	0.0	221.7	-3818.62	-100.60	-96.52	2.38	2.140e+04
9.651e+04						443.3	-4165.52	-1245.30	-96.52	2.38	0.0 0.0
1.362e+05	3	3.448e+04	1.073e+04	0.21	-397.40	0.0	-992.78	102.07	-24.20	23.29	1.073e+04
62		0.0	0.0	0.05	0.0	221.7	-1033.47	-32.20	-24.20	23.29	5363.68
2.380e+04						443.3	-1113.21	-295.33	-24.20	23.29	0.0 0.0
3.392e+04	5	3.793e+04	1.180e+04	0.23	-437.23	0.0	-1081.87	109.84	-26.62	22.25	1.180e+04
62		0.0	0.0	0.06	0.0	221.7	-1125.58	-34.39	-26.62	22.25	5900.39
2.624e+04						443.3	-1214.37	-327.38	-26.62	22.25	0.0 0.0
3.735e+04	6	9.452e+04	2.938e+04	0.57	-1089.62	0.0	-2541.29	237.14	-66.28	5.24	2.938e+04
62		0.0	0.0	0.15	0.0	221.7	-2634.42	-70.19	-66.28	5.24	1.469e+04
6.621e+04						443.3	-2871.49	-852.48	-66.28	5.24	0.0 0.0
9.349e+04	7	3.793e+04	1.180e+04	0.23	-437.23	0.0	-1081.87	109.84	-26.62	22.25	1.180e+04
62		0.0	0.0	0.06	0.0	221.7	-1125.58	-34.39	-26.62	22.25	5900.39
2.624e+04						443.3	-1214.37	-327.38	-26.62	22.25	0.0 0.0
3.735e+04	8	4.925e+04	1.532e+04	0.30	-567.70	0.0	-1373.76	135.30	-34.55	18.85	1.532e+04
62		0.0	0.0	0.08	0.0	221.7	-1427.35	-41.55	-34.55	18.85	7658.77
3.423e+04						443.3	-1545.80	-432.40	-34.55	18.85	0.0 0.0
4.857e+04	9	3.793e+04	1.180e+04	0.23	-437.23	0.0	-1081.87	109.84	-26.62	22.25	1.180e+04
62		0.0	0.0	0.06	0.0	221.7	-1125.58	-34.39	-26.62	22.25	5900.39
2.624e+04						443.3	-1214.37	-327.38	-26.62	22.25	0.0 0.0
3.735e+04						443.3	-1214.37	-327.38	-26.62	22.25	0.0 0.0

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RELAZIONE STRUTTURE - TABULATI

63	1	1080.23	0.0	-1.29e-03	-216.05	0.0	0.0	108.02	0.0	0.0	0.0	-
2160.46		-2160.46	0.0	0.0	0.0	60.0	0.0	-1.33e-06	0.0	0.0	0.0	
1080.23						120.0	0.0	-108.02	0.0	0.0	0.0	-
2160.46												
63	2	3125.30	0.0	-3.73e-03	-625.06	0.0	0.0	312.53	0.0	0.0	0.0	-
6250.61		-6250.61	0.0	0.0	0.0	60.0	0.0	-3.62e-06	0.0	0.0	0.0	
3125.30						120.0	0.0	-312.53	0.0	0.0	0.0	-
6250.61												
63	5	766.93	0.0	-9.15e-04	-153.39	0.0	0.0	76.69	0.0	0.0	0.0	-
1533.85		-1533.85	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	
766.93						120.0	0.0	-76.69	0.0	0.0	0.0	-
1533.85												
63	6	2130.31	0.0	-2.54e-03	-426.06	0.0	0.0	213.03	0.0	0.0	0.0	-
4260.61		-4260.61	0.0	0.0	0.0	60.0	0.0	-2.52e-06	0.0	0.0	0.0	
2130.31						120.0	0.0	-213.03	0.0	0.0	0.0	-
4260.61												
63	7	766.93	0.0	-9.15e-04	-153.39	0.0	0.0	76.69	0.0	0.0	0.0	-
1533.85		-1533.85	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	
766.93						120.0	0.0	-76.69	0.0	0.0	0.0	-
1533.85												
63	8	1039.60	0.0	-1.24e-03	-207.92	0.0	0.0	103.96	0.0	0.0	0.0	-
2079.20		-2079.20	0.0	0.0	0.0	60.0	0.0	-1.30e-06	0.0	0.0	0.0	
1039.60						120.0	0.0	-103.96	0.0	0.0	0.0	-
2079.20												
63	9	766.93	0.0	-9.15e-04	-153.39	0.0	0.0	76.69	0.0	0.0	0.0	-
1533.85		-1533.85	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	
766.93						120.0	0.0	-76.69	0.0	0.0	0.0	-
1533.85												
64	1	5.822e+04	0.0	-0.33	-837.40	0.0	-1361.00	403.51	0.0	448.04	0.0	0.0
5.822e+04		0.0	0.0	5.19e-04	0.0	270.0	-1361.00	2.64	0.0	448.04	0.0	
						540.0	-1361.00	-433.89	0.0	448.04	0.0	0.0
64	2	1.560e+05	0.0	-0.88	-2228.05	0.0	-3384.41	1063.99	0.0	1287.26	0.0	0.0
1.560e+05		0.0	0.0	8.54e-04	0.0	270.0	-3384.41	8.70	0.0	1287.26	0.0	
						540.0	-3384.41	-1164.05	0.0	1287.26	0.0	0.0
64	3	3.774e+04	0.0	-0.21	-544.02	0.0	-901.23	262.84	0.0	284.22	0.0	0.0
3.774e+04		0.0	0.0	3.75e-04	0.0	270.0	-901.23	1.60	0.0	284.22	0.0	
						540.0	-901.23	-281.19	0.0	284.22	0.0	0.0
64	4	1.355e+05	0.0	-0.77	-1934.67	0.0	-2924.64	923.32	0.0	1123.44	0.0	0.0
1.355e+05		0.0	0.0	7.10e-04	0.0	270.0	-2924.64	7.66	0.0	1123.44	0.0	
						540.0	-2924.64	-1011.35	0.0	1123.44	0.0	0.0
64	5	4.172e+04	0.0	-0.24	-600.62	0.0	-983.58	289.72	0.0	318.38	0.0	0.0
4.172e+04		0.0	0.0	3.89e-04	0.0	270.0	-983.58	1.84	0.0	318.38	0.0	
						540.0	-983.58	-310.90	0.0	318.38	0.0	0.0
64	6	1.069e+05	0.0	-0.61	-1527.72	0.0	-2332.52	730.04	0.0	877.86	0.0	0.0
1.069e+05		0.0	0.0	6.12e-04	0.0	270.0	-2332.52	5.88	0.0	877.86	0.0	
						540.0	-2332.52	-797.68	0.0	877.86	0.0	0.0
64	7	4.172e+04	0.0	-0.24	-600.62	0.0	-983.58	289.72	0.0	318.38	0.0	0.0
4.172e+04		0.0	0.0	3.89e-04	0.0	270.0	-983.58	1.84	0.0	318.38	0.0	
						540.0	-983.58	-310.90	0.0	318.38	0.0	0.0
64	8	5.476e+04	0.0	-0.31	-786.04	0.0	-1253.37	377.78	0.0	430.27	0.0	0.0
5.476e+04		0.0	0.0	4.33e-04	0.0	270.0	-1253.37	2.65	0.0	430.27	0.0	
						540.0	-1253.37	-408.26	0.0	430.27	0.0	0.0
64	9	4.172e+04	0.0	-0.24	-600.62	0.0	-983.58	289.72	0.0	318.38	0.0	0.0
		0.0	0.0	3.89e-04	0.0	270.0	-983.58	1.84	0.0	318.38	0.0	

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RELAZIONE STRUTTURE - TABULATI

125.14		-1.028e+04	-4785.53	-1.93e-03	0.0	110.8	-158.60	55.58	38.06	-1106.22	-567.59	-
67	1	1.728e+04	0.0	-0.09	-864.19	221.7	-123.11	-61.53	38.06	-1106.22	3650.34	0.0
3.457e+04		-3.457e+04	0.0	0.0	0.0	0.0	0.0	432.09	0.0	0.0	0.0	-
1.728e+04						480.0	0.0	7.07e-06	0.0	0.0	0.0	
3.457e+04							0.0	-432.09	0.0	0.0	0.0	-
67	2	5.000e+04	0.0	-0.27	-2500.24	0.0	0.0	1250.12	0.0	0.0	0.0	-
1.000e+05		-1.000e+05	0.0	0.0	0.0	240.0	0.0	-2.08e-06	0.0	0.0	0.0	
5.000e+04						480.0	0.0	-1250.12	0.0	0.0	0.0	-
1.000e+05							0.0	306.77	0.0	0.0	0.0	-
67	5	1.227e+04	0.0	-0.07	-613.54	0.0	0.0					
2.454e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
1.227e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-
2.454e+04							0.0	852.12	0.0	0.0	0.0	-
67	6	3.408e+04	0.0	-0.19	-1704.25	0.0	0.0					
6.817e+04		-6.817e+04	0.0	0.0	0.0	240.0	0.0	-1.38e-06	0.0	0.0	0.0	
3.408e+04						480.0	0.0	-852.12	0.0	0.0	0.0	-
6.817e+04							0.0	306.77	0.0	0.0	0.0	-
67	7	1.227e+04	0.0	-0.07	-613.54	0.0	0.0					
2.454e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
1.227e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-
2.454e+04							0.0	415.84	0.0	0.0	0.0	-
67	8	1.663e+04	0.0	-0.09	-831.68	0.0	0.0					
3.327e+04		-3.327e+04	0.0	0.0	0.0	240.0	0.0	3.50e-06	0.0	0.0	0.0	
1.663e+04						480.0	0.0	-415.84	0.0	0.0	0.0	-
3.327e+04							0.0	306.77	0.0	0.0	0.0	-
67	9	1.227e+04	0.0	-0.07	-613.54	0.0	0.0					
2.454e+04		-2.454e+04	0.0	0.0	0.0	240.0	0.0	4.72e-06	0.0	0.0	0.0	
1.227e+04						480.0	0.0	-306.77	0.0	0.0	0.0	-
2.454e+04							0.0					
68	2	1.134e+04	0.0	-0.31	-756.15	0.0	-1917.80	397.65	0.0	495.64	0.0	0.0
1.134e+04		0.0	0.0	0.12	0.0	60.0	-1917.80	-9.79	0.0	495.64	0.0	0.0
						120.0	-1917.80	-358.50	0.0	495.64	0.0	0.0
68	3	2531.46	0.0	-0.07	-168.76	0.0	-470.64	87.97	0.0	196.38	0.0	0.0
2531.46		0.0	0.0	0.03	0.0	60.0	-470.64	-1.80	0.0	196.38	0.0	0.0
						120.0	-470.64	-80.79	0.0	196.38	0.0	0.0
68	4	9893.72	0.0	-0.27	-659.58	0.0	-1664.83	347.01	0.0	416.16	0.0	0.0
9893.72		0.0	0.0	0.11	0.0	60.0	-1664.83	-8.61	0.0	416.16	0.0	0.0
						120.0	-1664.83	-312.57	0.0	416.16	0.0	0.0
68	5	2831.09	0.0	-0.08	-188.74	0.0	-519.25	98.51	0.0	205.32	0.0	0.0
2831.09		0.0	0.0	0.03	0.0	60.0	-519.25	-2.07	0.0	205.32	0.0	0.0
						120.0	-519.25	-90.22	0.0	205.32	0.0	0.0
68	6	7739.26	0.0	-0.21	-515.95	0.0	-1315.37	271.21	0.0	351.84	0.0	0.0
7739.26		0.0	0.0	0.08	0.0	60.0	-1315.37	-6.62	0.0	351.84	0.0	0.0
						120.0	-1315.37	-244.74	0.0	351.84	0.0	0.0
68	7	2831.09	0.0	-0.08	-188.74	0.0	-519.25	98.51	0.0	205.32	0.0	0.0
2831.09		0.0	0.0	0.03	0.0	60.0	-519.25	-2.07	0.0	205.32	0.0	0.0
						120.0	-519.25	-90.22	0.0	205.32	0.0	0.0
68	8	3812.72	0.0	-0.11	-254.18	0.0	-678.47	133.05	0.0	234.63	0.0	0.0
3812.72		0.0	0.0	0.04	0.0	60.0	-678.47	-2.98	0.0	234.63	0.0	0.0
						120.0	-678.47	-121.13	0.0	234.63	0.0	0.0
68	9	2831.09	0.0	-0.08	-188.74	0.0	-519.25	98.51	0.0	205.32	0.0	0.0
2831.09		0.0	0.0	0.03	0.0	60.0	-519.25	-2.07	0.0	205.32	0.0	0.0

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RELAZIONE STRUTTURE - TABULATI

1.362e+05		0.0	-4.279e+04	-0.21	0.0	221.7	-3818.62	-100.60	96.52	-2.37	-2.139e+04	
73	3	3.448e+04	0.0	0.21	-397.40	443.3	-4165.52	-1245.30	96.52	-2.37	0.0	0.0
2.380e+04						0.0	-992.78	102.07	24.20	-23.29	-1.073e+04	
3.392e+04		0.0	-1.073e+04	-0.05	0.0	221.7	-1033.47	-32.20	24.20	-23.29	-5363.67	
73	5	3.793e+04	0.0	0.23	-437.23	443.3	-1113.21	-295.33	24.20	-23.29	0.0	0.0
2.624e+04						0.0	-1081.87	109.84	26.62	-22.25	-1.180e+04	
3.735e+04		0.0	-1.180e+04	-0.06	0.0	221.7	-1125.58	-34.39	26.62	-22.25	-5900.38	
73	6	9.452e+04	0.0	0.57	-1089.62	443.3	-1214.37	-327.38	26.62	-22.25	0.0	0.0
6.621e+04						0.0	-2541.28	237.14	66.28	-5.24	-2.938e+04	
9.349e+04		0.0	-2.938e+04	-0.15	0.0	221.7	-2634.42	-70.19	66.28	-5.24	-1.469e+04	
73	7	3.793e+04	0.0	0.23	-437.23	443.3	-2871.49	-852.48	66.28	-5.24	0.0	0.0
2.624e+04						0.0	-1081.87	109.84	26.62	-22.25	-1.180e+04	
3.735e+04		0.0	-1.180e+04	-0.06	0.0	221.7	-1125.58	-34.39	26.62	-22.25	-5900.38	
73	8	4.925e+04	0.0	0.30	-567.70	443.3	-1214.37	-327.38	26.62	-22.25	0.0	0.0
3.423e+04						0.0	-1373.75	135.30	34.55	-18.85	-1.532e+04	
4.857e+04		0.0	-1.532e+04	-0.08	0.0	221.7	-1427.35	-41.55	34.55	-18.85	-7658.75	
73	9	3.793e+04	0.0	0.23	-437.23	443.3	-1545.79	-432.40	34.55	-18.85	0.0	0.0
2.624e+04						0.0	-1081.87	109.84	26.62	-22.25	-1.180e+04	
3.735e+04		0.0	-1.180e+04	-0.06	0.0	221.7	-1125.58	-34.39	26.62	-22.25	-5900.38	
74	2	3.313e+04	2849.06	-0.02	-1849.53	443.3	-1214.37	-327.38	26.62	-22.25	0.0	0.0
7.092e+04						0.0	-324.31	1055.64	-20.05	356.34	2849.06	-
3.313e+04		-7.092e+04	-5758.64	1.86e-03	0.0	214.7	17.03	-31.95	-20.05	356.34	-1454.79	
6.134e+04						429.4	256.17	-793.89	-20.05	356.34	-5758.64	-
74	6	2.437e+04	2014.88	-0.01	-1361.99	0.0	-236.77	769.08	-14.18	228.69	2014.88	-
5.189e+04												
2.437e+04		-5.189e+04	-4072.55	1.31e-03	0.0	214.7	11.52	-21.99	-14.18	228.69	-1028.84	
4.557e+04						429.4	190.70	-592.91	-14.18	228.69	-4072.55	-
74	8	1.991e+04	1310.87	-0.01	-1120.09	0.0	-186.15	597.98	-9.22	47.73	1310.87	-
4.125e+04												
1.991e+04		-4.125e+04	-2649.59	8.55e-04	0.0	214.7	5.19	-11.66	-9.22	47.73	-669.36	
3.916e+04						429.4	165.40	-522.11	-9.22	47.73	-2649.59	-
74	9	1.880e+04	1134.87	-0.01	-1059.61	0.0	-173.50	555.21	-7.99	2.49	1134.87	-
3.859e+04												
1.880e+04		-3.859e+04	-2293.85	7.41e-04	0.0	214.7	3.61	-9.08	-7.99	2.49	-579.49	
3.755e+04						429.4	159.07	-504.40	-7.99	2.49	-2293.85	-
75	1	1.754e+04	2037.13	-0.09	-533.28	0.0	0.0	420.33	-15.02	-544.48	2037.13	-
3.316e+04												
1.602e+04		-3.316e+04	-4271.31	9.42e-03	0.0	210.0	0.0	62.31	-15.02	-544.48	-1117.09	
6877.34						420.0	0.0	-112.95	-15.02	-544.48	-4271.31	
75	2	4.628e+04	5336.60	-0.24	-1453.56	0.0	0.0	1176.39	-39.35	-1423.08	5336.60	-
9.092e+04												
4.324e+04		-9.092e+04	-1.119e+04	0.02	0.0	210.0	0.0	148.60	-39.35	-1423.08	-2926.40	
1.715e+04						420.0	0.0	-277.17	-39.35	-1423.08	-1.119e+04	
75	5	1.259e+04	1463.73	-0.06	-381.40	0.0	0.0	299.66	-10.79	-391.32	1463.73	-
2.370e+04												
1.147e+04		-2.370e+04	-3069.05	6.77e-03	0.0	210.0	0.0	45.23	-10.79	-391.32	-802.66	
4968.55						420.0	0.0	-81.74	-10.79	-391.32	-3069.05	
75	6	3.176e+04	3663.38	-0.17	-994.93	0.0	0.0	803.70	-27.01	-977.06	3663.38	-

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6444.40												
79	6	1.508e+04	2.940e+04	0.02	-1820.01	0.0	0.0	1287.85	-125.53	0.0	2.940e+04	-
1.201e+05		-1.201e+05	-1.441e+04	-0.02	0.0	174.5	0.0	225.35	-125.53	0.0	7494.92	
1.020e+04						348.9	0.0	-532.17	-125.53	0.0	-1.441e+04	-
2.181e+04												
79	7	4940.01	1.184e+04	9.34e-03	-648.96	0.0	0.0	468.79	-50.89	0.0	1.184e+04	-
4.630e+04		-4.630e+04	-5916.37	-9.45e-03	0.0	174.5	0.0	96.55	-50.89	0.0	2962.27	
2494.26						348.9	0.0	-180.17	-50.89	0.0	-5916.37	-
6444.40												
79	8	6968.36	1.535e+04	0.01	-883.17	0.0	0.0	632.61	-65.82	0.0	1.535e+04	-
6.107e+04		-6.107e+04	-7614.39	-0.01	0.0	174.5	0.0	122.31	-65.82	0.0	3868.80	
4035.96						348.9	0.0	-250.57	-65.82	0.0	-7614.39	-
9518.00												
79	9	4940.01	1.184e+04	9.34e-03	-648.96	0.0	0.0	468.79	-50.89	0.0	1.184e+04	-
4.630e+04		-4.630e+04	-5916.37	-9.45e-03	0.0	174.5	0.0	96.55	-50.89	0.0	2962.27	
2494.26						348.9	0.0	-180.17	-50.89	0.0	-5916.37	-
6444.40												
80	1	4.491e+04	0.0	0.28	-830.61	0.0	670.90	356.93	0.0	-1156.89	0.0	0.0
		0.0	0.0	4.82e-03	0.0	210.0	670.90	33.01	0.0	-1156.89	0.0	
4.477e+04												
80	2	1.266e+05	0.0	0.73	-2323.51	0.0	1729.14	969.48	0.0	-3074.96	0.0	0.0
		0.0	0.0	0.02	0.0	210.0	1729.15	108.72	0.0	-3074.96	0.0	
1.258e+05												
80	3	2.866e+04	0.0	0.18	-531.43	0.0	439.88	230.46	0.0	-751.81	0.0	0.0
		0.0	0.0	2.93e-03	0.0	210.0	439.88	19.94	0.0	-751.81	0.0	
2.860e+04												
80	5	3.199e+04	0.0	0.20	-592.19	0.0	482.94	255.38	0.0	-829.87	0.0	0.0
		0.0	0.0	3.37e-03	0.0	210.0	482.95	23.02	0.0	-829.87	0.0	
3.190e+04												
80	6	8.645e+04	0.0	0.50	-1587.46	0.0	1188.44	663.75	0.0	-2108.58	0.0	0.0
		0.0	0.0	0.01	0.0	210.0	1188.44	73.50	0.0	-2108.58	0.0	
8.592e+04												
80	7	3.199e+04	0.0	0.20	-592.19	0.0	482.94	255.38	0.0	-829.87	0.0	0.0
		0.0	0.0	3.37e-03	0.0	210.0	482.95	23.02	0.0	-829.87	0.0	
3.190e+04												
80	8	4.288e+04	0.0	0.26	-791.25	0.0	624.04	337.06	0.0	-1085.61	0.0	0.0
		0.0	0.0	4.81e-03	0.0	210.0	624.04	33.12	0.0	-1085.61	0.0	
4.270e+04												
80	9	3.199e+04	0.0	0.20	-592.19	0.0	482.94	255.38	0.0	-829.87	0.0	0.0
		0.0	0.0	3.37e-03	0.0	210.0	482.95	23.02	0.0	-829.87	0.0	
3.190e+04												
81	1	7.224e+04	0.0	-0.34	-1203.99	0.0	102.83	601.99	0.0	102.29	0.0	0.0
		0.0	0.0	-9.32e-03	0.0	240.0	102.83	8.81e-06	0.0	102.29	0.0	
7.224e+04												
81	2	2.097e+05	0.0	-0.97	-3494.47	0.0	241.62	1747.24	0.0	310.29	0.0	0.0
		0.0	0.0	-0.03	0.0	240.0	241.62	-4.01e-06	0.0	310.29	0.0	
2.097e+05												
81	3	4.567e+04	0.0	-0.21	-761.22	0.0	69.11	380.61	0.0	63.71	0.0	0.0
		0.0	0.0	-5.94e-03	0.0	240.0	69.11	4.47e-06	0.0	63.71	0.0	
4.567e+04												
81	5	5.127e+04	0.0	-0.24	-854.44	0.0	74.76	427.22	0.0	72.17	0.0	0.0
		0.0	0.0	-6.63e-03	0.0	240.0	74.76	5.77e-06	0.0	72.17	0.0	
5.127e+04												
81	6	1.429e+05	0.0	-0.66	-2381.43	0.0	167.28	1190.71	0.0	210.84	0.0	0.0
		0.0	0.0	-0.02	0.0	240.0	167.28	-2.77e-06	0.0	210.84	0.0	
1.429e+05												

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1155.06		-1.088e+04	0.0	0.28	0.0	88.7	671.17	42.61	-0.15	4637.25	13.44	
86	3	829.77	13.66	-0.08	-97.11	177.3	643.13	-49.92	-0.15	4637.25	0.0	0.0
2978.33						0.0	131.69	72.22	-0.08	1160.50	13.66	-
663.42		-2978.33	0.0	0.07	0.0	88.7	113.85	13.36	-0.08	1160.50	6.83	
86	5	853.39	14.00	-0.09	-103.48	177.3	102.26	-24.89	-0.08	1160.50	0.0	0.0
3239.04						0.0	152.60	77.94	-0.08	1276.93	14.00	-
674.31		-3239.04	0.0	0.08	0.0	88.7	133.32	14.30	-0.08	1276.93	7.00	
86	6	1250.93	19.56	-0.22	-207.87	177.3	121.24	-25.54	-0.08	1276.93	0.0	0.0
7509.76						0.0	495.26	171.61	-0.11	3184.14	19.56	-
852.69		-7509.76	0.0	0.19	0.0	88.7	452.25	29.68	-0.11	3184.14	9.78	
86	7	853.39	14.00	-0.09	-103.48	177.3	432.26	-36.25	-0.11	3184.14	0.0	0.0
3239.04						0.0	152.60	77.94	-0.08	1276.93	14.00	-
674.31		-3239.04	0.0	0.08	0.0	88.7	133.32	14.30	-0.08	1276.93	7.00	
86	8	930.76	15.11	-0.11	-124.36	177.3	121.24	-25.54	-0.08	1276.93	0.0	0.0
4093.19						0.0	221.13	96.68	-0.09	1658.37	15.11	-
709.98		-4093.19	0.0	0.10	0.0	88.7	197.10	17.38	-0.09	1658.37	7.56	
86	9	853.39	14.00	-0.09	-103.48	177.3	183.45	-27.68	-0.09	1658.37	0.0	0.0
3239.04						0.0	152.60	77.94	-0.08	1276.93	14.00	-
674.31		-3239.04	0.0	0.08	0.0	88.7	133.32	14.30	-0.08	1276.93	7.00	
87	2	1.203e+04	1336.22	-3.31e-03	-58.97	177.3	121.24	-25.54	-0.08	1276.93	0.0	0.0
1.203e+04						0.0	-1.036e+04	-62.63	-10.23	-3924.76	1336.22	
6975.31		0.0	0.0	0.01	0.0	65.3	-1.035e+04	-92.11	-10.23	-3924.76	668.11	
87	3	1511.87	631.32	-7.92e-04	-45.36	130.6	-1.034e+04	-121.60	-10.23	-3924.76	0.0	0.0
1273.76						0.0	-2827.05	12.92	-4.84	-963.12	631.32	
1377.14		0.0	0.0	3.59e-03	0.0	65.3	-2817.33	-9.76	-4.84	-963.12	315.66	
87	4	1.076e+04	1102.70	-2.88e-03	-45.36	130.6	-2807.61	-32.44	-4.84	-963.12	0.0	0.0
1.076e+04						0.0	-8940.04	-59.71	-8.45	-3407.06	1102.70	
6118.37		0.0	0.0	9.18e-03	0.0	65.3	-8930.32	-82.39	-8.45	-3407.06	551.35	
87	5	1799.95	650.50	-8.76e-04	-45.36	130.6	-8920.60	-105.07	-8.45	-3407.06	0.0	0.0
1659.68						0.0	-3075.83	9.97	-4.98	-1062.58	650.50	
1570.09		0.0	0.0	3.82e-03	0.0	65.3	-3066.11	-12.71	-4.98	-1062.58	325.25	
87	6	7981.32	964.76	-2.27e-03	-45.36	130.6	-3056.39	-35.39	-4.98	-1062.58	0.0	0.0
7981.32						0.0	-7151.16	-38.45	-7.39	-2691.87	964.76	
4730.91		0.0	0.0	7.55e-03	0.0	65.3	-7141.44	-61.13	-7.39	-2691.87	482.38	
87	7	1799.95	650.50	-8.76e-04	-45.36	130.6	-7131.72	-83.81	-7.39	-2691.87	0.0	0.0
1659.68						0.0	-3075.83	9.97	-4.98	-1062.58	650.50	
1570.09		0.0	0.0	3.82e-03	0.0	65.3	-3066.11	-12.71	-4.98	-1062.58	325.25	
87	8	2924.00	713.35	-1.15e-03	-45.36	130.6	-3056.39	-35.39	-4.98	-1062.58	0.0	0.0
2924.00						0.0	-3890.90	0.28	-5.46	-1388.44	713.35	
2202.26		0.0	0.0	4.57e-03	0.0	65.3	-3881.18	-22.40	-5.46	-1388.44	356.68	
87	9	1799.95	650.50	-8.76e-04	-45.36	130.6	-3871.46	-45.08	-5.46	-1388.44	0.0	0.0
1659.68						0.0	-3075.83	9.97	-4.98	-1062.58	650.50	
1570.09		0.0	0.0	3.82e-03	0.0	65.3	-3066.11	-12.71	-4.98	-1062.58	325.25	
88	1	2089.25	0.0	-0.01	-58.97	130.6	-3056.39	-35.39	-4.98	-1062.58	0.0	0.0
1948.70		0.0	-922.22	0.14	0.0	0.0	-873.46	39.84	-5.94	-731.29	0.0	0.0
						77.6	-897.68	10.35	-5.94	-731.29	-461.11	

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1.467e+05 106	7	-1.561e+04	1.69e-03	6.41e-03	-219.46	0.0	-138.04	-265.83	8.45e-06	7.29e-05	8.45e-04	-
1.561e+04		-5.317e+04	8.45e-04	0.0	0.0	50.0	-138.04	-375.56	8.45e-06	7.29e-05	1.27e-03	-
3.164e+04						100.0	-138.04	-485.29	8.45e-06	7.29e-05	1.69e-03	-
5.317e+04 106	8	-2.087e+04	2.17e-03	8.01e-03	-301.26	0.0	-167.92	-359.37	1.08e-05	9.76e-05	1.08e-03	-
2.087e+04		-7.187e+04	1.08e-03	0.0	0.0	50.0	-167.91	-510.00	1.08e-05	9.76e-05	1.62e-03	-
4.261e+04						100.0	-167.91	-660.63	1.08e-05	9.76e-05	2.17e-03	-
7.187e+04 106	9	-1.561e+04	1.69e-03	6.41e-03	-219.46	0.0	-138.04	-265.83	8.45e-06	7.29e-05	8.45e-04	-
1.561e+04		-5.317e+04	8.45e-04	0.0	0.0	50.0	-138.04	-375.56	8.45e-06	7.29e-05	1.27e-03	-
3.164e+04						100.0	-138.04	-485.29	8.45e-06	7.29e-05	1.69e-03	-
5.317e+04 107	2	1.249e+05	0.0	0.25	-58.97	0.0	-6213.25	-926.86	2.27	1302.66	-296.68	
1.249e+05		0.0	-296.68	3.27e-03	0.0	65.3	-6200.61	-956.35	2.27	1302.66	-148.34	
6.339e+04						130.6	-6187.97	-985.83	2.27	1302.66	0.0 0.0	
107	3	2.561e+04	0.0	0.05	-45.36	0.0	-1801.90	-173.45	0.04	303.51	-4.80	
2.561e+04		0.0	-4.80	9.74e-04	0.0	65.3	-1792.18	-196.13	0.04	303.51	-2.40	
1.354e+04						130.6	-1782.46	-218.81	0.04	303.51	0.0 0.0	
107	5	2.901e+04	0.0	0.06	-45.36	0.0	-1945.95	-199.55	0.12	337.30	-15.61	
2.901e+04		0.0	-15.61	1.05e-03	0.0	65.3	-1936.23	-222.23	0.12	337.30	-7.80	
1.525e+04						130.6	-1926.51	-244.91	0.12	337.30	0.0 0.0	
107	6	8.483e+04	0.0	0.17	-45.36	0.0	-4305.59	-627.12	1.48	890.89	-192.66	
8.483e+04		0.0	-192.66	2.27e-03	0.0	65.3	-4295.87	-649.80	1.48	890.89	-96.33	
4.316e+04						130.6	-4286.15	-672.48	1.48	890.89	0.0 0.0	
107	7	2.901e+04	0.0	0.06	-45.36	0.0	-1945.95	-199.55	0.12	337.30	-15.61	
2.901e+04		0.0	-15.61	1.05e-03	0.0	65.3	-1936.23	-222.23	0.12	337.30	-7.80	
1.525e+04						130.6	-1926.51	-244.91	0.12	337.30	0.0 0.0	
107	8	4.018e+04	0.0	0.08	-45.36	0.0	-2417.88	-285.06	0.39	448.02	-51.02	
4.018e+04		0.0	-51.02	1.29e-03	0.0	65.3	-2408.16	-307.74	0.39	448.02	-25.51	
2.083e+04						130.6	-2398.44	-330.42	0.39	448.02	0.0 0.0	
107	9	2.901e+04	0.0	0.06	-45.36	0.0	-1945.95	-199.55	0.12	337.30	-15.61	
2.901e+04		0.0	-15.61	1.05e-03	0.0	65.3	-1936.23	-222.23	0.12	337.30	-7.80	
1.525e+04						130.6	-1926.51	-244.91	0.12	337.30	0.0 0.0	
108	1	7.224e+04	0.0	-0.33	-1203.99	0.0	-736.84	601.99	0.0	-121.90	0.0 0.0	
7.224e+04		0.0	0.0	6.94e-03	0.0	240.0	-736.84	8.81e-06	0.0	-121.90	0.0	
						480.0	-736.84	-601.99	0.0	-121.90	0.0 0.0	
108	2	2.097e+05	0.0	-0.95	-3494.47	0.0	-1945.18	1747.24	0.0	-348.11	0.0 0.0	
2.097e+05		0.0	0.0	0.02	0.0	240.0	-1945.18	-4.01e-06	0.0	-348.11	0.0	
						480.0	-1945.18	-1747.24	0.0	-348.11	0.0 0.0	
108	3	4.567e+04	0.0	-0.21	-761.22	0.0	-479.80	380.61	0.0	-77.48	0.0 0.0	
4.567e+04		0.0	0.0	4.29e-03	0.0	240.0	-479.80	4.47e-06	0.0	-77.48	0.0	
						480.0	-479.80	-380.61	0.0	-77.48	0.0 0.0	
108	4	1.831e+05	0.0	-0.83	-3051.70	0.0	-1688.14	1525.85	0.0	-303.69	0.0 0.0	
1.831e+05		0.0	0.0	0.02	0.0	240.0	-1688.14	-8.35e-06	0.0	-303.69	0.0	
						480.0	-1688.14	-1525.85	0.0	-303.69	0.0 0.0	
108	5	5.127e+04	0.0	-0.23	-854.44	0.0	-528.97	427.22	0.0	-86.69	0.0 0.0	
5.127e+04		0.0	0.0	4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	-86.69	0.0	
						480.0	-528.97	-427.22	0.0	-86.69	0.0 0.0	
108	6	1.429e+05	0.0	-0.65	-2381.43	0.0	-1334.53	1190.71	0.0	-237.49	0.0 0.0	
		0.0	0.0	0.01	0.0	240.0	-1334.53	-2.77e-06	0.0	-237.49	0.0	

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1.429e+05					480.0	-1334.53	-1190.71	0.0	-237.49	0.0 0.0
108	7 5.127e+04	0.0	-0.23	-854.44	0.0	-528.97	427.22	0.0	-86.69	0.0 0.0
	0.0	0.0	4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	-86.69	0.0
5.127e+04										
108	8 6.959e+04	0.0	-0.32	-1159.84	0.0	-690.08	579.92	0.0	-116.85	0.0 0.0
	0.0	0.0	6.83e-03	0.0	240.0	-690.08	4.06e-06	0.0	-116.85	0.0
6.959e+04										
108	9 5.127e+04	0.0	-0.23	-854.44	0.0	-528.97	427.22	0.0	-86.69	0.0 0.0
	0.0	0.0	4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	-86.69	0.0
5.127e+04										
109	1 7.224e+04	0.0	-0.32	-1203.99	0.0	-736.84	601.99	0.0	121.91	0.0 0.0
	0.0	0.0	-6.94e-03	0.0	240.0	-736.84	8.81e-06	0.0	121.91	0.0
7.224e+04										
109	2 2.097e+05	0.0	-0.91	-3494.47	0.0	-1945.19	1747.24	0.0	348.13	0.0 0.0
	0.0	0.0	-0.02	0.0	240.0	-1945.19	-4.01e-06	0.0	348.13	0.0
2.097e+05										
109	3 4.567e+04	0.0	-0.20	-761.22	0.0	-479.80	380.61	0.0	77.49	0.0 0.0
	0.0	0.0	-4.29e-03	0.0	240.0	-479.80	4.47e-06	0.0	77.49	0.0
4.567e+04										
109	5 5.127e+04	0.0	-0.22	-854.44	0.0	-528.97	427.22	0.0	86.70	0.0 0.0
	0.0	0.0	-4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	86.70	0.0
5.127e+04										
109	6 1.429e+05	0.0	-0.62	-2381.43	0.0	-1334.54	1190.71	0.0	237.51	0.0 0.0
	0.0	0.0	-0.01	0.0	240.0	-1334.54	-2.77e-06	0.0	237.51	0.0
1.429e+05										
109	7 5.127e+04	0.0	-0.22	-854.44	0.0	-528.97	427.22	0.0	86.70	0.0 0.0
	0.0	0.0	-4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	86.70	0.0
5.127e+04										
109	8 6.959e+04	0.0	-0.30	-1159.84	0.0	-690.09	579.92	0.0	116.86	0.0 0.0
	0.0	0.0	-6.83e-03	0.0	240.0	-690.09	4.06e-06	0.0	116.86	0.0
6.959e+04										
109	9 5.127e+04	0.0	-0.22	-854.44	0.0	-528.97	427.22	0.0	86.70	0.0 0.0
	0.0	0.0	-4.88e-03	0.0	240.0	-528.97	5.77e-06	0.0	86.70	0.0
5.127e+04										
110	1 9.143e+04	0.0	-0.54	-1354.49	0.0	-725.75	677.24	0.0	-307.26	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-725.75	1.89e-05	0.0	-307.26	0.0
9.143e+04										
110	2 2.654e+05	0.0	-1.55	-3931.28	0.0	-1909.44	1965.64	0.0	-886.60	0.0 0.0
	0.0	0.0	0.07	0.0	270.0	-1909.44	3.88e-05	0.0	-886.60	0.0
2.654e+05										
110	3 5.781e+04	0.0	-0.34	-856.38	0.0	-473.04	428.19	0.0	-194.64	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-473.04	9.22e-06	0.0	-194.64	0.0
5.781e+04										
110	5 6.488e+04	0.0	-0.38	-961.25	0.0	-521.21	480.62	0.0	-218.21	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-521.21	1.22e-05	0.0	-218.21	0.0
6.488e+04										
110	6 1.808e+05	0.0	-1.06	-2679.11	0.0	-1310.34	1339.55	0.0	-604.45	0.0 0.0
	0.0	0.0	0.05	0.0	270.0	-1310.34	2.55e-05	0.0	-604.45	0.0
1.808e+05										
110	7 6.488e+04	0.0	-0.38	-961.25	0.0	-521.21	480.62	0.0	-218.21	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-521.21	1.22e-05	0.0	-218.21	0.0
6.488e+04										
110	8 8.808e+04	0.0	-0.52	-1304.82	0.0	-679.04	652.41	0.0	-295.46	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-679.04	1.49e-05	0.0	-295.46	0.0
8.808e+04										
110	9 6.488e+04	0.0	-0.38	-961.25	0.0	-521.21	480.62	0.0	-218.21	0.0 0.0
	0.0	0.0	0.02	0.0	270.0	-521.21	1.22e-05	0.0	-218.21	0.0

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6.488e+04						540.0	-521.21	-480.62	0.0	-218.21	0.0 0.0
111	2	8.190e+04	0.0	-0.15	-2184.04	0.0	-1807.08	1092.02	0.0	2.12e-04	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-1807.08	-2.79e-05	0.0	2.12e-04	0.0
8.190e+04											
111	3	1.784e+04	0.0	-0.03	-475.76	0.0	-450.04	237.88	0.0	4.71e-05	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-450.04	-5.22e-06	0.0	4.71e-05	0.0
1.784e+04											
111	4	7.152e+04	0.0	-0.13	-1907.32	0.0	-1567.47	953.66	0.0	1.85e-04	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-1567.47	-2.47e-05	0.0	1.85e-04	0.0
7.152e+04											
111	5	2.003e+04	0.0	-0.04	-534.03	0.0	-495.51	267.01	0.0	5.28e-05	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-495.51	-5.93e-06	0.0	5.28e-05	0.0
2.003e+04											
111	6	5.581e+04	0.0	-0.10	-1488.39	0.0	-1240.47	744.20	0.0	1.44e-04	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-1240.47	-1.89e-05	0.0	1.44e-04	0.0
5.581e+04											
111	7	2.003e+04	0.0	-0.04	-534.03	0.0	-495.51	267.01	0.0	5.28e-05	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-495.51	-5.93e-06	0.0	5.28e-05	0.0
2.003e+04											
111	8	2.718e+04	0.0	-0.05	-724.90	0.0	-644.50	362.45	0.0	7.11e-05	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-644.50	-8.52e-06	0.0	7.11e-05	0.0
2.718e+04											
111	9	2.003e+04	0.0	-0.04	-534.03	0.0	-495.51	267.01	0.0	5.28e-05	0.0 0.0
		0.0	0.0	0.0	0.0	150.0	-495.51	-5.93e-06	0.0	5.28e-05	0.0
2.003e+04											
112	2	2.654e+05	0.0	-1.41	-3931.28	0.0	-1909.45	1965.64	0.0	886.57	0.0 0.0
		0.0	0.0	-0.07	0.0	270.0	-1909.45	3.88e-05	0.0	886.57	0.0
2.654e+05											
112	3	5.781e+04	0.0	-0.31	-856.38	0.0	-473.04	428.19	0.0	194.63	0.0 0.0
		0.0	0.0	-0.02	0.0	270.0	-473.04	9.22e-06	0.0	194.63	0.0
5.781e+04											
112	5	6.488e+04	0.0	-0.34	-961.25	0.0	-521.21	480.62	0.0	218.20	0.0 0.0
		0.0	0.0	-0.02	0.0	270.0	-521.21	1.22e-05	0.0	218.20	0.0
6.488e+04											
112	6	1.808e+05	0.0	-0.96	-2679.11	0.0	-1310.34	1339.55	0.0	604.42	0.0 0.0
		0.0	0.0	-0.05	0.0	270.0	-1310.34	2.55e-05	0.0	604.42	0.0
1.808e+05											
112	7	6.488e+04	0.0	-0.34	-961.25	0.0	-521.21	480.62	0.0	218.20	0.0 0.0
		0.0	0.0	-0.02	0.0	270.0	-521.21	1.22e-05	0.0	218.20	0.0
6.488e+04											
112	8	8.808e+04	0.0	-0.47	-1304.82	0.0	-679.04	652.41	0.0	295.45	0.0 0.0
		0.0	0.0	-0.02	0.0	270.0	-679.04	1.49e-05	0.0	295.45	0.0
8.808e+04											
112	9	6.488e+04	0.0	-0.34	-961.25	0.0	-521.21	480.62	0.0	218.20	0.0 0.0
		0.0	0.0	-0.02	0.0	270.0	-521.21	1.22e-05	0.0	218.20	0.0
6.488e+04											
113	2	7935.11	8095.16	0.33	-72.64	0.0	-1836.04	-35.26	-62.66	281.36	8095.16
7935.11		-6113.30	-4201.25	0.36	0.0	98.1	-1857.14	-71.58	-62.66	281.36	1946.96
2693.03						196.3	-1878.23	-107.90	-62.66	281.36	-4201.25 -
6113.30											
113	3	1830.31	2061.94	0.08	-55.88	0.0	-439.53	8.18	-15.67	73.90	2061.94
1715.34		-2162.91	-1012.78	0.09	0.0	98.1	-455.76	-19.76	-15.67	73.90	524.58
1147.08						196.3	-471.99	-47.70	-15.67	73.90	-1012.78 -
2162.91											
113	5	2000.73	2263.44	0.09	-55.88	0.0	-486.60	6.47	-17.24	80.80	2263.44
1927.65											

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1191.80		-2285.77	-1120.13	0.10	0.0	98.1	-502.83	-21.47	-17.24	80.80	571.65	
						196.3	-519.05	-49.41	-17.24	80.80	-1120.13	-
2285.77												
113	6	5405.55	5564.23	0.23	-55.88	0.0	-1257.53	-21.51	-43.02	193.75	5564.23	
5405.55		-4298.39	-2878.62	0.25	0.0	98.1	-1273.76	-49.45	-43.02	193.75	1342.81	
1924.44						196.3	-1289.99	-77.39	-43.02	193.75	-2878.62	-
4298.39												
113	7	2000.73	2263.44	0.09	-55.88	0.0	-486.60	6.47	-17.24	80.80	2263.44	
1927.65		-2285.77	-1120.13	0.10	0.0	98.1	-502.83	-21.47	-17.24	80.80	571.65	
1191.80						196.3	-519.05	-49.41	-17.24	80.80	-1120.13	-
2285.77												
113	8	2623.23	2923.60	0.12	-55.88	0.0	-640.78	0.88	-22.40	103.39	2923.60	
2623.23		-2688.29	-1471.83	0.13	0.0	98.1	-657.01	-27.06	-22.40	103.39	725.88	
1338.33						196.3	-673.24	-55.00	-22.40	103.39	-1471.83	-
2688.29												
113	9	2000.73	2263.44	0.09	-55.88	0.0	-486.60	6.47	-17.24	80.80	2263.44	
1927.65		-2285.77	-1120.13	0.10	0.0	98.1	-502.83	-21.47	-17.24	80.80	571.65	
1191.80						196.3	-519.05	-49.41	-17.24	80.80	-1120.13	-
2285.77												
114	1	5847.65	4856.14	-0.13	-72.64	0.0	-785.33	71.80	-68.18	2684.57	4856.14	-
1115.96		-1115.96	-8525.00	0.01	0.0	98.1	-764.23	35.48	-68.18	2684.57	-1834.43	
4147.97						196.3	-743.13	-0.84	-68.18	2684.57	-8525.00	
5847.65												
114	2	1.601e+04	1.255e+04	-0.35	-72.64	0.0	-2049.60	122.53	-178.11	7022.49	1.255e+04	-
904.54		-904.54	-2.240e+04	0.03	0.0	98.1	-2028.51	86.21	-178.11	7022.49	-4926.67	
9336.93						196.3	-2007.41	49.89	-178.11	7022.49	-2.240e+04	
1.601e+04												
114	3	3797.48	3181.44	-0.08	-55.88	0.0	-513.07	51.58	-44.53	1752.71	3181.44	-
873.65		-873.65	-5558.34	7.80e-03	0.0	98.1	-496.84	23.64	-44.53	1752.71	-1188.45	
2817.12						196.3	-480.61	-4.30	-44.53	1752.71	-5558.34	
3766.17												
114	5	4185.91	3494.60	-0.09	-55.88	0.0	-564.52	53.65	-49.01	1929.25	3494.60	-
865.05		-865.05	-6123.19	8.36e-03	0.0	98.1	-548.29	25.71	-49.01	1929.25	-1314.30	
3028.30						196.3	-532.06	-2.23	-49.01	1929.25	-6123.19	
4179.92												
114	6	1.096e+04	8624.44	-0.24	-55.88	0.0	-1407.37	87.46	-122.29	4821.20	8624.44	-
724.11		-724.11	-1.538e+04	0.02	0.0	98.1	-1391.14	59.52	-122.29	4821.20	-3375.79	
6487.61						196.3	-1374.91	31.58	-122.29	4821.20	-1.538e+04	
1.096e+04												
114	7	4185.91	3494.60	-0.09	-55.88	0.0	-564.52	53.65	-49.01	1929.25	3494.60	-
865.05		-865.05	-6123.19	8.36e-03	0.0	98.1	-548.29	25.71	-49.01	1929.25	-1314.30	
3028.30						196.3	-532.06	-2.23	-49.01	1929.25	-6123.19	
4179.92												
114	8	5535.46	4520.57	-0.12	-55.88	0.0	-733.09	60.41	-63.66	2507.64	4520.57	-
836.86		-836.86	-7973.76	0.01	0.0	98.1	-716.86	32.47	-63.66	2507.64	-1726.59	
3720.16						196.3	-700.63	4.53	-63.66	2507.64	-7973.76	
5535.46												
114	9	4185.91	3494.60	-0.09	-55.88	0.0	-564.52	53.65	-49.01	1929.25	3494.60	-
865.05		-865.05	-6123.19	8.36e-03	0.0	98.1	-548.29	25.71	-49.01	1929.25	-1314.30	
3028.30						196.3	-532.06	-2.23	-49.01	1929.25	-6123.19	
4179.92												

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115	2	7934.78	4201.21	0.33	-72.64	0.0	-1836.05	-35.26	62.66	-281.34	-8095.18	
7934.78		-6113.20	-8095.18	-0.36	0.0	98.1	-1857.15	-71.58	62.66	-281.34	-1946.98	
2692.91						196.3	-1878.25	-107.90	62.66	-281.34	4201.21	-
6113.20	3	1830.23	1012.78	0.08	-55.88	0.0	-439.54	8.18	15.67	-73.90	-2061.94	
115		-2162.88	-2061.94	-0.09	0.0	98.1	-455.77	-19.76	15.67	-73.90	-524.58	
1715.25						196.3	-472.00	-47.70	15.67	-73.90	1012.78	-
1147.05												
2162.88	5	2000.64	1120.12	0.09	-55.88	0.0	-486.60	6.47	17.24	-80.79	-2263.44	
115		-2285.74	-2263.44	-0.10	0.0	98.1	-502.83	-21.47	17.24	-80.79	-571.66	
1927.55						196.3	-519.06	-49.41	17.24	-80.79	1120.12	-
1191.77												
2285.74	6	5405.33	2878.59	0.23	-55.88	0.0	-1257.54	-21.50	43.02	-193.74	-5564.25	
115		-4298.32	-5564.25	-0.25	0.0	98.1	-1273.77	-49.44	43.02	-193.74	-1342.83	
5405.33						196.3	-1290.00	-77.38	43.02	-193.74	2878.59	-
1924.36												
4298.32	7	2000.64	1120.12	0.09	-55.88	0.0	-486.60	6.47	17.24	-80.79	-2263.44	
115		-2285.74	-2263.44	-0.10	0.0	98.1	-502.83	-21.47	17.24	-80.79	-571.66	
1927.55						196.3	-519.06	-49.41	17.24	-80.79	1120.12	-
1191.77												
2285.74	8	2623.11	1471.82	0.12	-55.88	0.0	-640.79	0.88	22.40	-103.38	-2923.60	
115		-2688.26	-2923.60	-0.13	0.0	98.1	-657.02	-27.06	22.40	-103.38	-725.89	
2623.11						196.3	-673.25	-55.00	22.40	-103.38	1471.82	-
1338.29												
2688.26	9	2000.64	1120.12	0.09	-55.88	0.0	-486.60	6.47	17.24	-80.79	-2263.44	
115		-2285.74	-2263.44	-0.10	0.0	98.1	-502.83	-21.47	17.24	-80.79	-571.66	
1927.55						196.3	-519.06	-49.41	17.24	-80.79	1120.12	-
1191.77												
2285.74	1	5848.03	8524.98	-0.13	-72.64	0.0	-785.32	71.81	68.18	-2684.56	-4856.13	-
116		-1116.07	-4856.13	-0.01	0.0	98.1	-764.23	35.48	68.18	-2684.56	1834.43	
1116.07						196.3	-743.13	-0.84	68.18	-2684.56	8524.98	
4148.10												
5848.03	2	1.602e+04	2.240e+04	-0.35	-72.64	0.0	-2049.59	122.54	178.11	-7022.46	-1.255e+04	-
116		-904.82	-1.255e+04	-0.03	0.0	98.1	-2028.50	86.21	178.11	-7022.46	4926.65	
904.82						196.3	-2007.40	49.89	178.11	-7022.46	2.240e+04	
9337.27												
1.602e+04	3	3797.71	5558.33	-0.08	-55.88	0.0	-513.06	51.58	44.53	-1752.70	-3181.44	-
116		-873.73	-3181.44	-7.80e-03	0.0	98.1	-496.84	23.64	44.53	-1752.70	1188.45	
873.73						196.3	-480.61	-4.30	44.53	-1752.70	5558.33	
2817.21												
3766.42	5	4186.16	6123.18	-0.09	-55.88	0.0	-564.52	53.65	49.01	-1929.24	-3494.59	-
116		-865.13	-3494.59	-8.36e-03	0.0	98.1	-548.29	25.71	49.01	-1929.24	1314.29	
865.13						196.3	-532.06	-2.23	49.01	-1929.24	6123.18	
3028.40												
4180.20	6	1.096e+04	1.538e+04	-0.24	-55.88	0.0	-1407.36	87.47	122.29	-4821.18	-8624.42	-
116		-724.30	-8624.42	-0.02	0.0	98.1	-1391.13	59.53	122.29	-4821.18	3375.78	
724.30						196.3	-1374.91	31.59	122.29	-4821.18	1.538e+04	
6487.84												
1.096e+04	7	4186.16	6123.18	-0.09	-55.88	0.0	-564.52	53.65	49.01	-1929.24	-3494.59	-
116		-865.13	-3494.59	-8.36e-03	0.0	98.1	-548.29	25.71	49.01	-1929.24	1314.29	
865.13												
3028.40												

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						196.3	-532.06	-2.23	49.01	-1929.24	6123.18	
4180.20												
116	8	5535.81	7973.74	-0.12	-55.88	0.0	-733.09	60.41	63.66	-2507.63	-4520.56	-
836.96		-836.96	-4520.56	-0.01	0.0	98.1	-716.86	32.47	63.66	-2507.63	1726.59	
3720.28						196.3	-700.63	4.53	63.66	-2507.63	7973.74	
5535.81												
116	9	4186.16	6123.18	-0.09	-55.88	0.0	-564.52	53.65	49.01	-1929.24	-3494.59	-
865.13		-865.13	-3494.59	-8.36e-03	0.0	98.1	-548.29	25.71	49.01	-1929.24	1314.29	
3028.40						196.3	-532.06	-2.23	49.01	-1929.24	6123.18	
4180.20												
117	2	2.016e+04	3.053e+04	0.46	-51.37	0.0	-3392.76	-492.51	-157.48	-1983.51	3.053e+04	
2.016e+04		-7.938e+04	283.47	-0.03	0.0	96.0	-3360.65	-518.19	-157.48	-1983.51	1.541e+04	-
2.837e+04						192.1	-3328.55	-543.87	-157.48	-1983.51	283.47	-
7.938e+04												
117	3	4377.78	7656.52	0.11	-39.51	0.0	-857.00	-104.45	-39.29	-495.53	7656.52	
4377.78		-1.948e+04	109.02	-8.33e-03	0.0	96.0	-832.31	-124.20	-39.29	-495.53	3882.77	-
6602.87						192.1	-807.61	-143.96	-39.29	-495.53	109.02	-
1.948e+04												
117	5	4916.33	8422.44	0.12	-39.51	0.0	-941.80	-117.72	-43.25	-545.37	8422.44	
4916.33		-2.149e+04	114.30	-9.17e-03	0.0	96.0	-917.11	-137.48	-43.25	-545.37	4268.37	-
7339.35						192.1	-892.41	-157.24	-43.25	-545.37	114.30	-
2.149e+04												
117	6	1.374e+04	2.097e+04	0.32	-39.51	0.0	-2330.88	-335.18	-108.12	-1361.83	2.097e+04	
1.374e+04		-5.444e+04	200.70	-0.02	0.0	96.0	-2306.18	-354.94	-108.12	-1361.83	1.058e+04	-
1.940e+04						192.1	-2281.49	-374.70	-108.12	-1361.83	200.70	-
5.444e+04												
117	7	4916.33	8422.44	0.12	-39.51	0.0	-941.80	-117.72	-43.25	-545.37	8422.44	
4916.33		-2.149e+04	114.30	-9.17e-03	0.0	96.0	-917.11	-137.48	-43.25	-545.37	4268.37	-
7339.35						192.1	-892.41	-157.24	-43.25	-545.37	114.30	-
2.149e+04												
117	8	6680.75	1.093e+04	0.16	-39.51	0.0	-1219.62	-161.22	-56.22	-708.66	1.093e+04	
6680.75		-2.808e+04	131.58	-0.01	0.0	96.0	-1194.92	-180.97	-56.22	-708.66	5531.66	-
9752.24						192.1	-1170.22	-200.73	-56.22	-708.66	131.58	-
2.808e+04												
117	9	4916.33	8422.44	0.12	-39.51	0.0	-941.80	-117.72	-43.25	-545.37	8422.44	
4916.33		-2.149e+04	114.30	-9.17e-03	0.0	96.0	-917.11	-137.48	-43.25	-545.37	4268.37	-
7339.35						192.1	-892.41	-157.24	-43.25	-545.37	114.30	-
2.149e+04												
118	2	1.118e+04	1.547e+04	0.28	-1563.67	0.0	-2261.99	312.23	42.97	921.33	0.0 0.0	
1.416e+04		-1.691e+05	0.0	-0.05	0.0	180.0	-2261.99	-469.61	42.97	921.33	7733.96	-
						360.0	-2261.99	-1251.45	42.97	921.33	1.547e+04	-
1.691e+05												
118	3	2716.99	3877.46	0.07	-377.04	0.0	-623.09	75.60	10.77	202.72	0.0 0.0	
3359.01		-4.065e+04	0.0	-0.01	0.0	180.0	-623.09	-112.92	10.77	202.72	1938.73	-
						360.0	-623.09	-301.44	10.77	202.72	3877.46	-
4.065e+04												
118	5	3001.61	4265.50	0.07	-416.99	0.0	-677.12	83.56	11.85	227.20	0.0 0.0	
3723.61		-4.498e+04	0.0	-0.01	0.0	180.0	-677.12	-124.93	11.85	227.20	2132.75	-
						360.0	-677.12	-333.43	11.85	227.20	4265.50	-
4.498e+04												
118	6	7664.00	1.062e+04	0.19	-1071.42	0.0	-1562.25	213.99	29.51	628.20	0.0 0.0	
9696.21		-1.158e+05	0.0	-0.03	0.0	180.0	-1562.25	-321.72	29.51	628.20	5310.99	-
						360.0	-1562.25	-857.43	29.51	628.20	1.062e+04	-
1.158e+05												

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7339.34	-2.149e+04	114.28	9.16e-03	0.0	96.0	-917.10	137.48	43.25	545.37	4268.37	-	
4916.34					192.1	-941.80	117.72	43.25	545.37	8422.46		
120	8	6680.75	1.093e+04	-0.16	-39.51	0.0	-1170.22	200.73	56.22	708.66	131.56	-
2.808e+04		-2.808e+04	131.56	0.01	0.0	96.0	-1194.92	180.97	56.22	708.66	5531.66	-
9752.21					192.1	-1219.62	161.21	56.22	708.66	1.093e+04		
6680.75	9	4916.34	8422.46	-0.12	-39.51	0.0	-892.41	157.24	43.25	545.37	114.28	-
120		-2.149e+04	114.28	9.16e-03	0.0	96.0	-917.10	137.48	43.25	545.37	4268.37	-
2.149e+04					192.1	-941.80	117.72	43.25	545.37	8422.46		
7339.34												
4916.34												
Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T				
	-2.151e+05	-1.330e+05	-1.55	-4436.87	-1.236e+04	-1999.49	-996.65	-2.860e+04				
	2.654e+05	1.330e+05	0.83	0.0	2397.14	2623.18	996.65	2.860e+04				

6. VERIFICHE S.L. ELEMENTI IN LEGNO

6.1 LEGENDA TABELLA VERIFICHE S.L. ELEMENTI IN LEGNO

Il programma consente la verifica dei seguenti tipi di elementi:

1. Aste 2. Travi 3. Pilastri

L'esito delle verifiche è espresso con un codice come di seguito indicato:

ok: verifica con esito positivo

NV: verifica con esito negativo

Le sono condotte seguendo le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2014 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici"; in particolare le verifiche effettuate sono riconducibili ai punti:

EC5

- 2.2.2 Ultimate limit states
- 2.2.3 Serviceability limit states
- 2.4.1 Design value of material property
- 2.4.3 Design resistances
- 3.1.3 Strength modification (k_{mod})
- 3.1.4 Deformation modification (k_{def})
- 6. Ultimate limit states
- 6.2 Design of cross-sections subjected to combined stresses
- 6.3 Stability of members

Simbologia adottata nelle tabelle di verifica

Le verifiche effettuate ai sensi dell'EC5 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave (T), Pilastro (P), Asta (A)
Stato	Codice della verifica ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formula 6.17 e 6.18 per tensoflessione
Ver N-/M	Verifica come da formula 6.19 e 6.20 per pressoflessione
Ver V/T	Verifica come da formula 6.13 e 6.14 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica come da formula 6.23 e 6.24 per pressoflessione di elementi con snellezza relativa in un piano maggiore di 0.3
Kcy (z)	Fattore di instabilità utilizzato nella formula 6.23 (6.24)
Ver M(s)	Verifica come da formula 6.35 (effettuata in entrambi i piani principali) per instabilità laterale
Kcrit (y) (z)	Fattore di instabilità laterale utilizzato nella formula 6.35 rispettivamente per la flessione y e z
w _{net R}	Massima deformazione in esercizio (R rara, F frequente, P quasi permanente)
w _{net Ri}	Massima deformazione in esercizio valutata a tempo infinito (R rara, F frequente, P quasi permanente)
k _{def}	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Si sottolinea che le cinque verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **k_{mod}**, espressione

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77	1.2	0.6	0.5	6,8,9	0.8	1.6	1.0	0.9	6,8,9
78	2.4	1.2	1.0	6,8,9	0.8	3.2	2.0	1.7	6,8,9
79	6.81e-02	3.53e-02	2.71e-02	6,8,9	0.8	8.97e-02	5.69e-02	4.88e-02	6,8,9
80	1.2	0.6	0.5	6,8,9	0.8	1.6	1.0	0.9	6,8,9
81	1.3	0.6	0.5	6,8,9	0.8	1.7	1.0	0.9	6,8,9
82	1.8	0.9	0.7	6,8,9	0.8	2.3	1.4	1.2	6,8,9
83	0.4	0.4	0.4	5,7,9	0.8	0.7	0.7	0.7	5,7,9
84	0.3	0.1	0.1	6,8,9	0.8	0.4	0.2	0.2	6,8,9
85	0.5	0.2	0.2	6,8,9	0.8	0.6	0.4	0.3	6,8,9
86	1.3	0.6	0.5	6,8,9	0.8	1.7	1.0	0.9	6,8,9
87	5.78e-02	3.50e-02	2.93e-02	6,8,9	0.8	8.12e-02	5.84e-02	5.27e-02	6,8,9
88	1.7	0.9	0.7	6,8,9	0.8	2.2	1.4	1.2	6,8,9
89	0.6	0.3	0.3	6,8,9	0.8	0.8	0.5	0.5	6,8,9
90	1.7	0.9	0.6	6,8,9	0.8	2.2	1.4	1.2	6,8,9
91	0.4	0.2	0.1	6,8,9	0.8	0.5	0.3	0.3	6,8,9
92	1.4	0.7	0.5	6,8,9	0.8	1.8	1.1	1.0	6,8,9
93	0.4	0.4	0.4	5,7,9	0.8	0.7	0.7	0.7	5,7,9
94	0.4	0.2	0.1	6,8,9	0.8	0.5	0.3	0.2	6,8,9
95	0.3	0.2	0.1	6,8,9	0.8	0.4	0.3	0.2	6,8,9
96	0.5	0.3	0.2	6,8,9	0.8	0.7	0.4	0.3	6,8,9
97	0.3	0.2	0.1	6,8,9	0.8	0.4	0.2	0.2	6,8,9
98	1.4	0.7	0.5	6,8,9	0.8	1.8	1.2	1.0	6,8,9
99	0.6	0.3	0.3	6,8,9	0.8	0.8	0.5	0.5	6,8,9
100	1.4	0.7	0.5	6,8,9	0.8	1.8	1.1	1.0	6,8,9
101	0.4	0.2	0.1	6,8,9	0.8	0.5	0.3	0.3	6,8,9
102	1.4	0.7	0.6	6,8,9	0.8	1.9	1.2	1.0	6,8,9
103	0.4	0.4	0.4	5,7,9	0.8	0.7	0.7	0.7	5,7,9
104	0.7	0.3	0.3	6,8,9	0.8	0.9	0.6	0.5	6,8,9
105	1.3	0.7	0.5	6,8,9	0.8	1.7	1.0	0.9	6,8,9
106	0.2	8.86e-02	6.59e-02	6,8,9	0.8	0.2	0.1	0.1	6,8,9
107	1.3	0.6	0.5	6,8,9	0.8	1.7	1.0	0.8	6,8,9
108	1.3	0.6	0.5	6,8,9	0.8	1.7	1.0	0.9	6,8,9
109	1.3	0.6	0.5	6,8,9	0.8	1.7	1.0	0.9	6,8,9
110	1.9	0.9	0.7	6,8,9	0.8	2.4	1.4	1.2	6,8,9
111	0.3	0.2	0.1	6,8,9	0.8	0.4	0.3	0.2	6,8,9
112	1.9	0.9	0.7	6,8,9	0.8	2.4	1.4	1.2	6,8,9
113	1.3	0.7	0.5	6,8,9	0.8	1.7	1.1	0.9	6,8,9
114	1.2	0.6	0.5	6,8,9	0.8	1.6	1.0	0.8	6,8,9
115	1.3	0.7	0.5	6,8,9	0.8	1.7	1.1	0.9	6,8,9
116	1.2	0.6	0.5	6,8,9	0.8	1.6	1.0	0.8	6,8,9
117	1.6	0.8	0.6	6,8,9	0.8	2.2	1.4	1.2	6,8,9
118	0.5	0.2	0.2	6,8,9	0.8	0.6	0.4	0.3	6,8,9
119	1.5	0.8	0.6	6,8,9	0.8	2.0	1.3	1.1	6,8,9
120	1.6	0.8	0.6	6,8,9	0.8	2.2	1.4	1.2	6,8,9
Elem.	w,net R	w,net F	w,net P			w,net Ri	w,net Fi	w,net Pi	
	2.87	1.49	1.15			3.79	2.41	2.06	