COMUNE DI SANTA TERESA DI RIVA
Città Metropolitana di Messina

REALIZZAZIONE DEL NUOVO SVINCOLO AUTOSTRADALE DI SANTA TERESA VAL D'AGRO' DELL'AUTOSTRADA A18 MESSINA

CATANIA E CORRISPONDENTI COLLEGAMENTI ALLA VIABILITA' ORDINARIA

CUP: F91B13000720001 CIG: 8059580FCD

PROGETTAZIONE

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DIRETTORE TECNICO
Dott. Ing. Stefano PALLAVICINI

Mandante:

PROGIN S.p.A.
DIRETTORE TECNICO
Dott. Ing. Lorenzo INFANTE

DINAMICA s.r.l.
Ingegneria - Servizi - Costruzioni
DIRETTORE TECNICO
Dott. Ing. Antonino SUTERA

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	Dott. Ing. Paolo IORIO
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RESPONSABILE DELLA QUALITA':	Dott. Ing. Jacopo BENEDETTI
GIOVANE PROFESSIONISTA:	Dott. Ing. Domenico DICUONZO

PROGETTO DEFINITIVO

CASELLO AD ELEVATA AUTOMAZIONE
EDIFICIO DI STAZIONE
Strutture - Tabulati di calcolo

Commessa	Nome File	Codice Elaborato	Rev	Scala
P20062	D0503-SRL02-00.dwg	D 05 03 S RL 02	00	-

REVISIONI						
	-	-	-	-	-	-
	-	-	-	-	-	-
	00	25/01/2021	EMISSIONE	GRASSO	PALLAVICINI	LISTORTI
	REV.	DATA	MOTIVAZIONE	REDATTO	CONTROLLATO	APPROVATO

RESPONSABILE DELLE INTEGRAZIONI DELLE PRESTAZIONI SPECIALISTICHE:

R.U.P.: Dott. Ing. Onofrio CRISAFULLI
Supp. R.U.P.: Dott. Ing. Adriano GRASSI

VISTI/APPROVAZIONI:

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)

Sigla:
WinStrand

Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional

Documentazione in uso:
Manuale teorico - Manuale d'uso

Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 21 Gennaio 2019, n. 7 "*Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018*"
- D.M. del 17 Gennaio 2018 "*Aggiornamento delle «Norme tecniche per le costruzioni»*"
- Circolare del 2 Febbraio 2009, n. 617 "*Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008*"
- D.M. del 14 Gennaio 2008 "*Approvazione delle nuove norme tecniche per le costruzioni*"
- Ordinanza n. 3274 del 20 Marzo 2003. "*Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica*"

- Ordinanza n. 3316. "*Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003*"
- D.M. del 16 Gennaio 1996. "*Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»*".
- D.M del 16 Gennaio 1996. "*Norme tecniche per le costruzioni in zone sismiche*"
- D.M. del 9 Gennaio 1996. "*Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche*".
- D.M. del 14 Febbraio 1992. "*Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche*".
- D.M. del 3 Ottobre 1978. "*Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi*".
- D.M. del 3 Marzo 1975. "*Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche*".
- D.M. del 3 Marzo 1975. "*Approvazione delle norme tecniche per le costruzioni in zone sismiche*".
- Legge n. 64 del 2 Febbraio 1974. "*Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche*".
- Legge n. 1086 del 5 Novembre 1971. "*Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica*".
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Indice

Dati relativi ai nodi della struttura

Convenzioni adottate

La terna di riferimento generale è destrorsa.

I nodi vengono numerati, con riferimento a una sezione orizzontale, da sinistra a destra, dal basso verso l'alto e per quote crescenti.

L'impalcato di appartenenza di un nodo è definito, in generale, dalla prima delle tre cifre che ne definiscono il numero, possono tuttavia presentarsi casi in cui si hanno più di 100 nodi per solaio nel qual caso il solaio di appartenenza è specificato dall'ultimo valore stampato nella riga dei dati relativi al nodo.

La maschera dei vincoli è costituita dai valori 0 e 1. Il valore 1 indica che per il nodo in riferimento il grado di libertà correlativo è soppresso mentre il valore 0 indica che è libero.

Nel caso di edifici civili multipiano l'asse *z* generale coincide con l'asse verticale rivolto verso l'alto.

Nodi

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
1	0.00	0.00	0.00	1	1	0	0	0	1	0
2	3.77	0.00	0.00	1	1	0	0	0	1	0
3	5.53	0.00	0.00	1	1	0	0	0	1	0
4	10.75	0.00	0.00	1	1	0	0	0	1	0
5	16.50	0.00	0.00	1	1	0	0	0	1	0
6	19.71	0.00	0.00	1	1	0	0	0	1	0
7	22.10	0.00	0.00	1	1	0	0	0	1	0
8	0.00	3.85	0.00	1	1	0	0	0	1	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
9	5.53	3.85	0.00	1	1	0	0	0	1	0
10	10.75	3.85	0.00	1	1	0	0	0	1	0
11	13.15	3.85	0.00	1	1	0	0	0	1	0
12	16.50	3.85	0.00	1	1	0	0	0	1	0
13	22.10	3.85	0.00	1	1	0	0	0	1	0
14	0.00	9.00	0.00	1	1	0	0	0	1	0
15	5.53	9.00	0.00	1	1	0	0	0	1	0
16	10.75	9.00	0.00	1	1	0	0	0	1	0
17	16.50	9.00	0.00	1	1	0	0	0	1	0
18	22.10	9.00	0.00	1	1	0	0	0	1	0
101	0.00	0.00	3.75	0	0	0	0	0	0	1
103	5.53	0.00	3.75	0	0	0	0	0	0	1
104	10.75	0.00	3.75	0	0	0	0	0	0	1
105	16.50	0.00	3.75	0	0	0	0	0	0	1
107	22.10	0.00	3.75	0	0	0	0	0	0	1
108	0.00	3.85	3.75	0	0	0	0	0	0	1
109	5.53	3.85	3.75	0	0	0	0	0	0	1
110	10.75	3.85	3.75	0	0	0	0	0	0	1
112	16.50	3.85	3.75	0	0	0	0	0	0	1
113	22.10	3.85	3.75	0	0	0	0	0	0	1
114	0.00	9.00	3.75	0	0	0	0	0	0	1
115	5.53	9.00	3.75	0	0	0	0	0	0	1
116	10.75	9.00	3.75	0	0	0	0	0	0	1
117	16.50	9.00	3.75	0	0	0	0	0	0	1
118	22.10	9.00	3.75	0	0	0	0	0	0	1

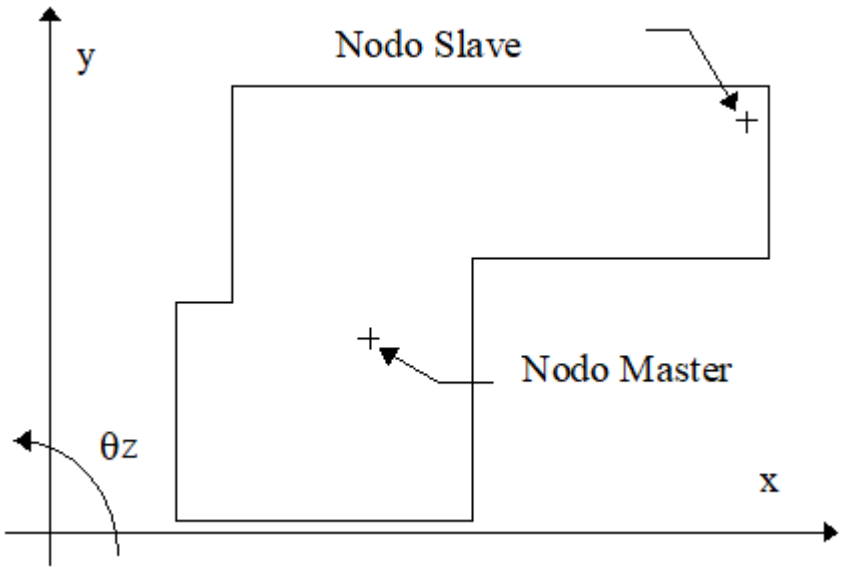
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai* **non** sono individuati i solai che effetivamente verranno realizzati nella struttura bensi gli orizzonatamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono cosi definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}
θ_z	$\theta_{zMaster}$



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m^2]
1	11.04	4.41	3.75	24379.0	1374772.6

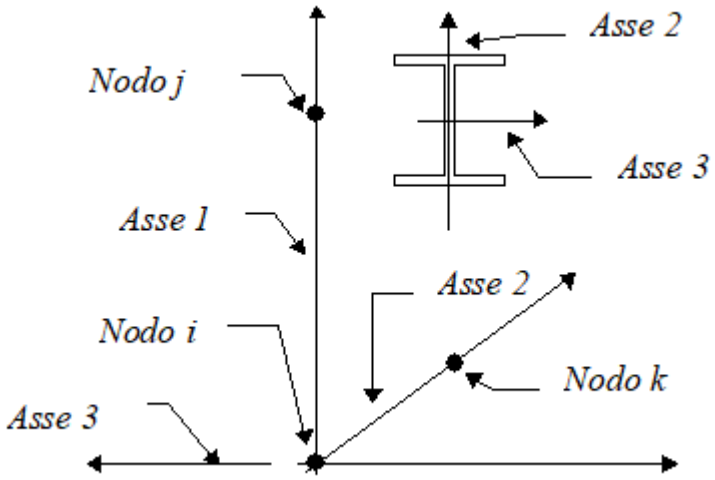
Elementi tipo pilastro

Convenzioni adottate

Ogni elemento tipo pilastro viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale del pilastro risulta quindi essere cosi disposta:



Sistema di riferimento locale

Vengono riportati i valori di efficacia dei vincoli flessionali alle estremità dell'elemento (variabili fra lo **0%** e il **100%**), nei due piani **1-2** e **1-3** del pilastro in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate alle estremità (coefficienti $\mathbf{V_{i12}}$ - $\mathbf{V_{j12}}$ - $\mathbf{V_{i13}}$ - $\mathbf{V_{j13}}$).

In generale, se non diversamente disposto, l'asse 2 coincide, per i pilastri, con l'asse **y** globale e pertanto la disposizione della sezione coincide con quella che si avrebbe in una vista in pianta.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	330194.3	0.120	0.000012	2500.0	Calcestruzzo

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 30 H= 60 [cm] P1_30x60
2	1	Rett.	B= 60 H= 30 [cm] P2_60x30

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm²]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	1800.00	370716	540000	135000	-0	1.2	1.2
2	1	1800.00	370716	135000	540000	-0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
101	1	10006	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
3	103	10012	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
104	4	10013	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
105	5	10016	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
107	7	10019	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
108	8	10006	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00

9	109	10012	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
10	110	10014	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
12	112	10016	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
13	113	10020	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
114	14	10006	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
15	115	10012	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
116	16	10014	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
117	17	10016	3.75	1	2	100	100	100	100	100	100	100	100	0.00	0.00
18	118	10020	3.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00

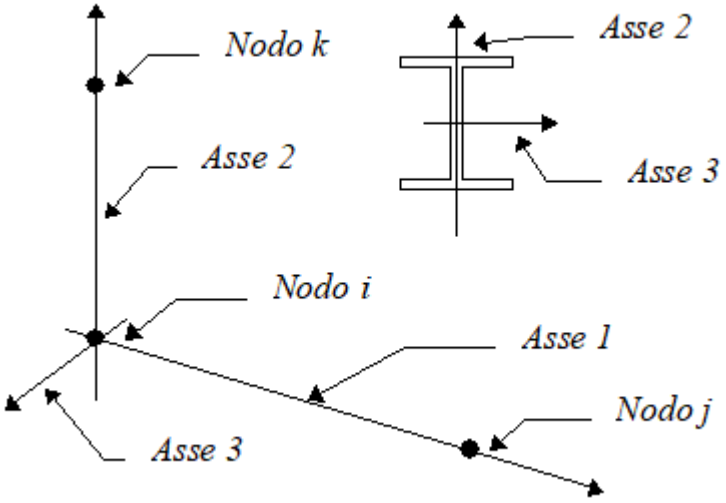
Elementi tipo trave

Convenzioni adottate

Ogni elemento tipo trave viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



Vengono riportati i valori di efficacia dei vincoli alle estreità dello elemento (variabili fra 0 e 100%), nei due piani **1-2** e **1-3** della trave in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate (coefficienti **Vi12, Vj12, Vi13, Vj13**).

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm^2]	ν	alfa [1/°C]	Peso Specifico [kg/m^3]	Commento
1	330194.3	0.120	0.000012	2500.0	Calcestruzzo

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 30 H= 60 [cm] T1_30x60

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm^2]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	1800.00	370716	540000	135000	-0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
103	101	10011	5.53	1	1	100	100	100	100	100	100	100	100	0.00	0.00

104	103	10011	5.22	1	1	100	100	100	100	100	100	100	100	0.00	0.00
105	104	10015	5.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
107	105	10015	5.60	1	1	100	100	100	100	100	100	100	100	0.00	0.00
108	109	10021	5.53	1	1	100	100	100	100	100	100	100	100	0.00	0.00
109	110	10021	5.22	1	1	100	100	100	100	100	100	100	100	0.00	0.00
110	112	10021	5.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
112	113	10021	5.60	1	1	100	100	100	100	100	100	100	100	0.00	0.00
114	115	10005	5.53	1	1	100	100	100	100	100	100	100	100	0.00	0.00
115	116	10005	5.22	1	1	100	100	100	100	100	100	100	100	0.00	0.00
116	117	10005	5.75	1	1	100	100	100	100	100	100	100	100	0.00	0.00
117	118	10019	5.60	1	1	100	100	100	100	100	100	100	100	0.00	0.00
101	108	10004	3.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
108	114	10004	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
103	109	10011	3.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
109	115	10011	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
104	110	10013	3.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
110	116	10013	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
105	112	10015	3.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
112	117	10015	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
113	107	10019	3.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
118	113	10019	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00

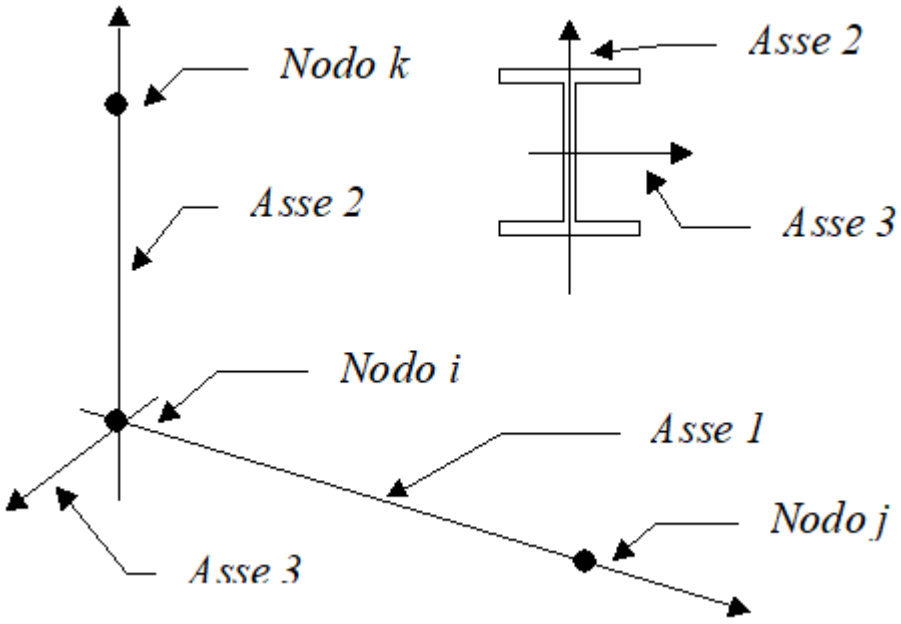
Elementi tipo trave su suolo alla Winkler

Convenzioni adottate

Ogni elemento tipo trave su suolo alla Winkler viene identificato da:

- Il nodo iniziale *i*;
- il nodo finale *j*;
- il nodo *k* che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



La modellazione del terreno sul quale agiscono le travi è alla Winkler e pertanto particolare attenzione va riposta ai casi in cui le travi inducano sul terreno zone di trazione poichè, in tal caso, la modellazione stessa cade in difetto.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	330194.3	0.120	0.000012	2500.0	Calcestruzzo

Numero	k Winkler [kg/cm³]	E [kg/cm²]	ν	Commento
1	3.0	1.0	0.10	Default

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	a Tr	B= 90 H= 80 b= 50 h= 30 [cm] Terreno numero 1 Default F1
2	1	Rett.	B= 30 H= 80 [cm] Terreno numero 1 Default F2_30x80

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm^2]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	5200.00	3553751	2800256	2343333	-0	1.2	1.2
2	1	2400.00	578360	1280000	180000	-0	1.2	1.2

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]
1	1	1	2	10003	1	1	3.77
1	2	2	3	10003	1	2	1.76
1	3	3	4	10011	1	2	5.22
1	4	4	5	10011	1	2	5.75
1	5	6	5	10015	1	2	3.21
1	6	7	6	10015	1	1	2.39
2	1	8	9	10021	1	1	5.53
2	2	9	10	10021	1	1	5.22
2	3	10	11	10021	1	2	2.40
2	4	11	12	10021	1	1	3.35
2	5	13	12	10021	1	1	5.60
3	1	14	15	10005	1	1	5.53
3	2	15	16	10005	1	1	5.22
3	3	16	17	10005	1	1	5.75
3	4	17	18	10017	1	1	5.60
4	1	1	8	10006	1	1	3.85
4	2	8	14	10006	1	1	5.15
5	1	3	9	10011	1	1	3.85
5	2	9	15	10011	1	1	5.15
6	1	10	4	10013	1	2	3.85
6	2	10	16	10013	1	1	5.15
7	1	5	12	10015	1	1	3.85
7	2	12	17	10015	1	1	5.15
8	1	13	7	10019	1	1	3.85
8	2	18	13	10019	1	1	5.15

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura **n** condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in **m** direzioni, la struttura stessa viene considerata del programma come soggetta ad **n + m** condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le **n + m** condizioni di carico ognuna partecipante alla combinazione **i-esima** secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione **j-esima** ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione **i-esima**.
- Le prime **n** condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da **n + 1** a **n + m**.

Condizioni di carico definite:

Condizione	
1	proprio
2	portato
3	accidentale
4	neve
5	vento x+
6	vento x-
7	vento y-
8	vento y-

Condizione	
9	dt+
10	dt-
11	Sisma 0+SLU
12	Sisma 0-SLU
13	Sisma 90+SLU
14	Sisma 90-SLU
15	Sisma 180+SLU
16	Sisma 180-SLU
17	Sisma 270+SLU
18	Sisma 270-SLU
19	Sisma 0+SLD
20	Sisma 0-SLD
21	Sisma 90+SLD
22	Sisma 90-SLD
23	Sisma 180+SLD
24	Sisma 180-SLD
25	Sisma 270+SLD
26	Sisma 270-SLD
27	Sisma 0+SLO
28	Sisma 0-SLO
29	Sisma 90+SLO
30	Sisma 90-SLO
31	Sisma 180+SLO
32	Sisma 180-SLO
33	Sisma 270+SLO
34	Sisma 270-SLO

Combinazioni agli Stati Limite Ultimi

Combinazione di carico numero	
1	accidentale
2	neve
3	vento x+
4	vento x-
5	vento y-
6	vento y-
7	dt+
8	dt-

Comb.\Cond	1	2	3	4	5	6	7	8	9	10
1	1.3	1.5	1.5	0.75	0.9	0.9	0.9	0.9	0.9	0.9
2	1.3	1.5		1.5	0.9	0.9	0.9	0.9	0.9	0.9
3	1.3	1.5		0.75	1.5	0.9	0.9	0.9	0.9	0.9
4	1.3	1.5		0.75	0.9	1.5	0.9	0.9	0.9	0.9
5	1.3	1.5		0.75	0.9	0.9	1.5	0.9	0.9	0.9
6	1.3	1.5		0.75	0.9	0.9	0.9	1.5	0.9	0.9
7	1.3	1.5		0.75	0.9	0.9	0.9	0.9	1.5	0.9
8	1.3	1.5		0.75	0.9	0.9	0.9	0.9	0.9	1.5

Combinazioni agli Stati Limite di Salvaguardia della Vita

Combinazione di carico numero	
9	Sisma 0+ / 90+
10	Sisma 0+ / 270+
11	Sisma 0- / 90-
12	Sisma 0- / 270-
13	Sisma 90+ / 0+
14	Sisma 90+ / 180+
15	Sisma 90- / 0-
16	Sisma 90- / 180-
17	Sisma 180+ / 90+
18	Sisma 180+ / 270+
19	Sisma 180- / 90-
20	Sisma 180- / 270-
21	Sisma 270+ / 0+
22	Sisma 270+ / 180+
23	Sisma 270- / 0-
24	Sisma 270- / 180-

Comb.\Cond	1	2	11	12	13	14	15	16	17	18
9	1	1	1		0.3					

10	1	1	1						0.3	
11	1	1		1		0.3				
12	1	1		1						0.3
13	1	1	0.3		1					
14	1	1			1		0.3			
15	1	1		0.3		1				
16	1	1				1		0.3		
17	1	1			0.3		1			
18	1	1					1		0.3	
19	1	1				0.3		1		
20	1	1						1		0.3
21	1	1	0.3						1	
22	1	1					0.3		1	
23	1	1		0.3						1
24	1	1						0.3		1

Combinazioni RARE Stati Limite di Esercizio

Combinazione di carico numero	
25	accidentale
26	neve
27	vento x+
28	vento x-
29	vento y-
30	vento y-
31	dt+
32	dt-

Comb.\Cond	1	2	3	4	5	6	7	8	9	10
25	1	1	1	0.5	0.6	0.6	0.6	0.6	0.6	0.6
26	1	1		1	0.6	0.6	0.6	0.6	0.6	0.6
27	1	1		0.5	1	0.6	0.6	0.6	0.6	0.6
28	1	1		0.5	0.6	1	0.6	0.6	0.6	0.6
29	1	1		0.5	0.6	0.6	1	0.6	0.6	0.6
30	1	1		0.5	0.6	0.6	0.6	1	0.6	0.6
31	1	1		0.5	0.6	0.6	0.6	0.6	1	0.6
32	1	1		0.5	0.6	0.6	0.6	0.6	0.6	1

Combinazioni FREQUENTI Stati Limite di Esercizio

Combinazione di carico numero	
33	accidentale
34	neve
35	vento x+
36	vento x-
37	vento y-
38	vento y-
39	dt+
40	dt-

Comb.\Cond	1	2	4	5	6	7	8	9	10
33	1	1							
34	1	1	0.2						
35	1	1		0.2					
36	1	1			0.2				
37	1	1				0.2			
38	1	1					0.2		
39	1	1						0.5	
40	1	1							0.5

Combinazioni QUASI PERMANENTI Stati Limite di Esercizio

Combinazione di carico numero	
41	Quasi Permanenti

Comb.\Cond	1	2
41	1	1

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero	
42	Sisma 0+ / 90+
43	Sisma 0+ / 270+
44	Sisma 0- / 90-
45	Sisma 0- / 270-
46	Sisma 90+ / 0+
47	Sisma 90+ / 180+
48	Sisma 90- / 0-
49	Sisma 90- / 180-
50	Sisma 180+ / 90+
51	Sisma 180+ / 270+
52	Sisma 180- / 90-
53	Sisma 180- / 270-
54	Sisma 270+ / 0+
55	Sisma 270+ / 180+
56	Sisma 270- / 0-
57	Sisma 270- / 180-

Comb.\Cond	1	2	19	20	21	22	23	24	25	26
42	1	1	1		0.3					
43	1	1	1						0.3	
44	1	1		1		0.3				
45	1	1		1						0.3
46	1	1	0.3		1					
47	1	1			1		0.3			
48	1	1		0.3		1				
49	1	1				1		0.3		
50	1	1			0.3		1			
51	1	1					1		0.3	
52	1	1				0.3		1		
53	1	1						1		0.3
54	1	1	0.3						1	
55	1	1					0.3		1	
56	1	1		0.3						1
57	1	1						0.3		1

Combinazioni agli Stati Limite di Operatività

Combinazione di carico numero	
58	Sisma 0+ / 90+
59	Sisma 0+ / 270+
60	Sisma 0- / 90-
61	Sisma 0- / 270-
62	Sisma 90+ / 0+
63	Sisma 90+ / 180+
64	Sisma 90- / 0-
65	Sisma 90- / 180-
66	Sisma 180+ / 90+
67	Sisma 180+ / 270+
68	Sisma 180- / 90-
69	Sisma 180- / 270-
70	Sisma 270+ / 0+
71	Sisma 270+ / 180+
72	Sisma 270- / 0-
73	Sisma 270- / 180-

Comb.\Cond	1	2	27	28	29	30	31	32	33	34
58	1	1	1		0.3					
59	1	1	1						0.3	
60	1	1		1		0.3				
61	1	1		1						0.3
62	1	1	0.3		1					
63	1	1			1		0.3			
64	1	1		0.3		1				
65	1	1				1		0.3		
66	1	1			0.3		1			
67	1	1					1		0.3	
68	1	1				0.3		1		
69	1	1						1		0.3
70	1	1	0.3						1	
71	1	1					0.3		1	
72	1	1		0.3						1
73	1	1						0.3		1

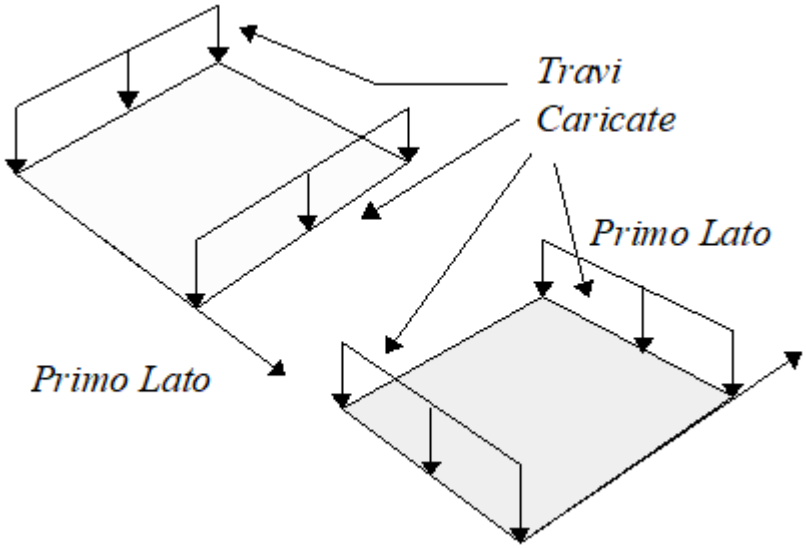
Dati relativi alle aree di carico

Convenzioni adottate

Nel seguito sono riportate le *aree di carico* definite nel progetto.

Un'*area di carico* è definita da una superfice contornata da travi di bordo ed i carichi superficiali su essa agenti vengono riportati dal programma sulle travi perimetrali in ragione dell'area di influenza relativa ad ogni trave e della direzione di orditura della superficie.

È importante rilevare che **la direzione di orditura viene assunta dal programma con riferimento al primo lato della superficie di carico e non con riferimento all'asse *x* globale della struttura**.



Esempio: *direzione* di orditura 0 gradi.

In particolare ricordiamo che le *aree di carico* fungono esclusivamente da supporto per il calcolo dei carichi di tipo superficiale in quanto i carichi definiti tramite tali *aree di carico* in effetti vengono trasferiti (sotto forma di carichi lineari o carichi nodali concentrati nei nodi) sulle travi perimetrali che contornano l'area di carico stessa.

A seguire vengono riportati per ogni tipologia definita i carichi agenti nelle varie condizioni di carico. La dizione:

Globale
: indica che il carico è definito nel sistema di riferimento globale della struttura.

Globale Proiettato
: indica che il carico è definito nel sistema di riferimento globale della struttura ma il valore viene computato in proiezione.

Locale
: indica che il carico è definito nel sistema di riferimento locale della superficie di carico.

Area di Carico Numero	Commento
1	Copertura

Tipo	Alfa	Condizione	Carico Trasmesso	Riferimento	qx [kg/m²] Qx [kg]	qy [kg/m²] Qy [kg]	qz [kg/m²] Qz [kg]
1	0.00	2	Alle Travi	Globale	0.0	0.0	700.0
					0.0	0.0	139230.0
1	0.00	3	Alle Travi	Globale	0.0	0.0	50.0
					0.0	0.0	9945.0
1	0.00	4	Alle Travi	Globale	0.0	0.0	50.0
					0.0	0.0	9945.0

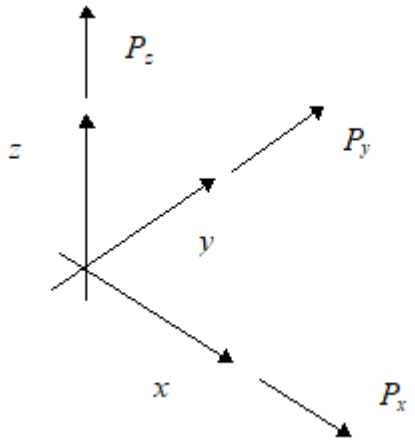
Tipologia	Nodi
1	101 103 109 108 101
1	108 109 115 114 108
1	103 104 110 109 103
1	109 110 116 115 109
1	104 105 112 110 104

Tipologia	Nodi
1	110 112 117 116 110
1	105 107 113 112 105
1	112 113 118 117 112

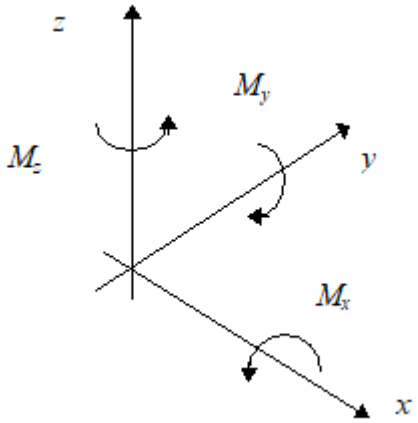
Carichi e coppie applicati ai nodi

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per i carichi o per le coppie direttamente applicati ai nodi:



Versi positivi delle forze concentrate applicate ai nodi.



Versi positivi delle coppie concentrate applicate ai nodi.

Nel seguito vengono riportati per ogni nodo, su cui agiscono carichi concentrati, le componenti del carico ($\mathbf{P}_x$, $\mathbf{P}_y$, $\mathbf{P}_z$, $\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_z$) e la condizione di carico cui esse fanno riferimento.

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]

Carichi e coppie applicati ai solai

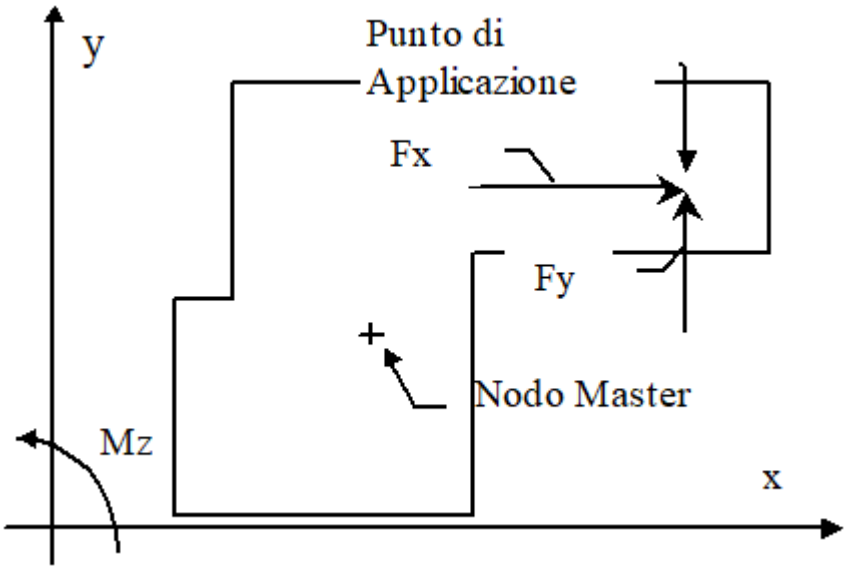
Convenzioni adottate

Seguendo l'ipotesi di piano infinitamente rigido le azioni agenti nel piano del solaio vengono trasformate dal codice di calcolo in azioni agenti nel cosiddetto nodo *master di solaio* secondo le trasformazioni seguenti:

$F_{xMaster} = F_{xNodo}$

$F_{yMaster} = F_{yNodo}$

$M_{zMaster} = M_{zNodo} - F_{xNodo} (y_{App} - y_{Master}) + F_{yNodo} (x_{App} - x_{Master})$



Nel seguito vengono riportati per ogni solaio, su cui agiscono carichi concentrati, le componenti del carico (F_x, F_y, M_z), le coordinate del punto di applicazione nel piano orizzontale (**x, y**) e la condizione di carico cui esse fanno riferimento.

Solaio	Condizione	Fx [kg]	Fy [kg]	Mz [kgm]	x Punto di applicazione [m]	y Punto di Applicazione [m]

Carichi applicati agli elementi

Convenzioni adottate

I carichi applicati vengono raccolti nella tabella riportata alla fine del paragrafo e si intendono applicati nel sistema di riferimento locale dell'elemento.
Per la lettura della tabella si definiscono:

NodoI, NodoJ
: I nodi iniziale/finale dell'asta o lato dell'elemento cui afferisce il carico

L
: La distanza fra i suddetti nodi.

qxi, ..., qzj
: Le componenti di un carico distribuito costante o variabile linearmente iniziali (indice i) e finale (indice j).

xi, xj
: Le distanze, misurate a partire dal NodoI, dei punti di applicazione dei carichi qxi..qzj relativi a carichi distribuiti applicati su porzioni di un'asta.

Px, ..., Pz xApp
: Le componenti di un Carico Concentrato applicato a distanza xApp dal NodoI.

Mx, ..., Mz xApp
: Le componenti di una Coppia Concentrata applicata a distanza xApp dal NodoI.

Var Termica Assiale, ..., Var Termica Farfalla 13
: Le variazioni termiche (Assiali ed a Farfalla) misurate in gradi Celsius.

mxi, ..., mzj
: Le componenti di coppie distribuite costanti o variabili linearmente iniziali (indice i) e finale (indice j).

qS_x, qS_y, qS_z
: carichi, per unità di superficie, applicati su elementi superficiali o facce di elementi solidi

Peso Proprio
: Il valore del carico derivante dal peso proprio dell'elemento

Carichi distribuiti

Nodo I	Nodo J	L [m]	Condizione di carico	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]
103	101	5.53	4	0.00	0.0	96.3	0.0	5.53	0.0	96.3	0.0

			3	0.00	0.0	96.3	0.0	5.53	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.53	0.0	1347.5	0.0
			4	0.00	0.0	75.0	0.0	5.53	0.0	75.0	0.0
			8	0.00	0.0	0.0	230.0	5.53	0.0	0.0	230.0
			7	0.00	0.0	0.0	-370.0	5.53	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	5.53	0.0	107.0	0.0
			2	0.00	0.0	565.0	0.0	5.53	0.0	565.0	0.0
			3	0.00	0.0	600.0	0.0	5.53	0.0	600.0	0.0
			1	0.00	0.0	450.0	0.0	5.53	0.0	450.0	0.0
1	2	3.77	2	0.00	0.0	1425.0	0.0	3.77	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	3.77	0.0	1300.0	0.0
101	1	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
104	103	5.22	4	0.00	0.0	96.3	0.0	5.22	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.22	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.22	0.0	1347.5	0.0
			4	0.00	0.0	75.0	0.0	5.22	0.0	75.0	0.0
			7	0.00	0.0	0.0	-370.0	5.22	0.0	0.0	-370.0
			8	0.00	0.0	0.0	230.0	5.22	0.0	0.0	230.0
			2	0.00	0.0	107.0	0.0	5.22	0.0	107.0	0.0
			2	0.00	0.0	565.0	0.0	5.22	0.0	565.0	0.0
			3	0.00	0.0	600.0	0.0	5.22	0.0	600.0	0.0
			1	0.00	0.0	450.0	0.0	5.22	0.0	450.0	0.0
2	3	1.76	2	0.00	0.0	1425.0	0.0	1.76	0.0	1425.0	0.0
			1	0.00	0.0	600.0	0.0	1.76	0.0	600.0	0.0
3	103	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
105	104	5.75	4	0.00	0.0	96.3	0.0	5.75	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.75	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.75	0.0	1347.5	0.0
			4	0.00	0.0	75.0	0.0	5.75	0.0	75.0	0.0
			8	0.00	0.0	0.0	230.0	5.75	0.0	0.0	230.0
			7	0.00	0.0	0.0	-370.0	5.75	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	5.75	0.0	107.0	0.0
			2	0.00	0.0	565.0	0.0	5.75	0.0	565.0	0.0
			3	0.00	0.0	600.0	0.0	5.75	0.0	600.0	0.0
			1	0.00	0.0	450.0	0.0	5.75	0.0	450.0	0.0
3	4	5.22	1	0.00	0.0	600.0	0.0	5.22	0.0	600.0	0.0
104	4	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
107	105	5.60	4	0.00	0.0	96.3	0.0	5.60	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.60	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.60	0.0	1347.5	0.0
			4	0.00	0.0	75.0	0.0	5.60	0.0	75.0	0.0
			8	0.00	0.0	0.0	230.0	5.60	0.0	0.0	230.0
			7	0.00	0.0	0.0	-370.0	5.60	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	5.60	0.0	107.0	0.0
			2	0.00	0.0	565.0	0.0	5.60	0.0	565.0	0.0
			3	0.00	0.0	600.0	0.0	5.60	0.0	600.0	0.0
			1	0.00	0.0	450.0	0.0	5.60	0.0	450.0	0.0
4	5	5.75	1	0.00	0.0	600.0	0.0	5.75	0.0	600.0	0.0
105	5	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
108	109	5.53	4	0.00	0.0	96.3	0.0	5.53	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.53	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.53	0.0	1347.5	0.0
			4	0.00	0.0	128.7	0.0	5.53	0.0	128.7	0.0
			3	0.00	0.0	128.7	0.0	5.53	0.0	128.7	0.0
			2	0.00	0.0	1802.5	0.0	5.53	0.0	1802.5	0.0
			1	0.00	0.0	450.0	0.0	5.53	0.0	450.0	0.0
6	5	3.21	2	0.00	0.0	1425.0	0.0	3.21	0.0	1425.0	0.0
			1	0.00	0.0	600.0	0.0	3.21	0.0	600.0	0.0
107	7	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
109	110	5.22	4	0.00	0.0	96.3	0.0	5.22	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.22	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.22	0.0	1347.5	0.0
			4	0.00	0.0	128.8	0.0	5.22	0.0	128.8	0.0
			3	0.00	0.0	128.8	0.0	5.22	0.0	128.8	0.0
			2	0.00	0.0	1802.5	0.0	5.22	0.0	1802.5	0.0
			1	0.00	0.0	450.0	0.0	5.22	0.0	450.0	0.0
7	6	2.39	2	0.00	0.0	1425.0	0.0	2.39	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	2.39	0.0	1300.0	0.0
108	8	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
110	112	5.75	4	0.00	0.0	96.3	0.0	5.75	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.75	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.75	0.0	1347.5	0.0
			4	0.00	0.0	128.7	0.0	5.75	0.0	128.7	0.0
			3	0.00	0.0	128.7	0.0	5.75	0.0	128.7	0.0
			2	0.00	0.0	1802.5	0.0	5.75	0.0	1802.5	0.0

			1	0.00	0.0	450.0	0.0	5.75	0.0	450.0	0.0
8	9	5.53	1	0.00	0.0	1300.0	0.0	5.53	0.0	1300.0	0.0
9	109	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
112	113	5.60	4	0.00	0.0	96.3	0.0	5.60	0.0	96.3	0.0
			3	0.00	0.0	96.3	0.0	5.60	0.0	96.3	0.0
			2	0.00	0.0	1347.5	0.0	5.60	0.0	1347.5	0.0
			4	0.00	0.0	128.7	0.0	5.60	0.0	128.7	0.0
			3	0.00	0.0	128.7	0.0	5.60	0.0	128.7	0.0
			2	0.00	0.0	1802.5	0.0	5.60	0.0	1802.5	0.0
			1	0.00	0.0	450.0	0.0	5.60	0.0	450.0	0.0
9	10	5.22	1	0.00	0.0	1300.0	0.0	5.22	0.0	1300.0	0.0
10	110	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
114	115	5.53	4	0.00	0.0	128.7	0.0	5.53	0.0	128.7	0.0
			3	0.00	0.0	128.7	0.0	5.53	0.0	128.7	0.0
			2	0.00	0.0	1802.5	0.0	5.53	0.0	1802.5	0.0
			3	0.00	0.0	480.0	0.0	5.53	0.0	480.0	0.0
			2	0.00	0.0	450.0	0.0	5.53	0.0	450.0	0.0
			2	0.00	0.0	107.0	0.0	5.53	0.0	107.0	0.0
			7	0.00	0.0	0.0	230.0	5.53	0.0	0.0	230.0
			8	0.00	0.0	0.0	-370.0	5.53	0.0	0.0	-370.0
			4	0.00	0.0	60.0	0.0	5.53	0.0	60.0	0.0
			1	0.00	0.0	450.0	0.0	5.53	0.0	450.0	0.0
10	11	2.40	1	0.00	0.0	600.0	0.0	2.40	0.0	600.0	0.0
12	112	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
115	116	5.22	4	0.00	0.0	128.8	0.0	5.22	0.0	128.8	0.0
			3	0.00	0.0	128.8	0.0	5.22	0.0	128.8	0.0
			2	0.00	0.0	1802.5	0.0	5.22	0.0	1802.5	0.0
			3	0.00	0.0	480.0	0.0	5.22	0.0	480.0	0.0
			2	0.00	0.0	450.0	0.0	5.22	0.0	450.0	0.0
			2	0.00	0.0	107.0	0.0	5.22	0.0	107.0	0.0
			8	0.00	0.0	0.0	-370.0	5.22	0.0	0.0	-370.0
			7	0.00	0.0	0.0	230.0	5.22	0.0	0.0	230.0
			4	0.00	0.0	60.0	0.0	5.22	0.0	60.0	0.0
			1	0.00	0.0	450.0	0.0	5.22	0.0	450.0	0.0
11	12	3.35	1	0.00	0.0	1300.0	0.0	3.35	0.0	1300.0	0.0
13	113	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
116	117	5.75	4	0.00	0.0	128.8	0.0	5.75	0.0	128.8	0.0
			3	0.00	0.0	128.8	0.0	5.75	0.0	128.8	0.0
			2	0.00	0.0	1802.5	0.0	5.75	0.0	1802.5	0.0
			3	0.00	0.0	480.0	0.0	5.75	0.0	480.0	0.0
			2	0.00	0.0	450.0	0.0	5.75	0.0	450.0	0.0
			2	0.00	0.0	107.0	0.0	5.75	0.0	107.0	0.0
			7	0.00	0.0	0.0	230.0	5.75	0.0	0.0	230.0
			8	0.00	0.0	0.0	-370.0	5.75	0.0	0.0	-370.0
			4	0.00	0.0	60.0	0.0	5.75	0.0	60.0	0.0
			1	0.00	0.0	450.0	0.0	5.75	0.0	450.0	0.0
13	12	5.60	1	0.00	0.0	1300.0	0.0	5.60	0.0	1300.0	0.0
114	14	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
117	118	5.60	4	0.00	0.0	128.8	0.0	5.60	0.0	128.8	0.0
			3	0.00	0.0	128.8	0.0	5.60	0.0	128.8	0.0
			2	0.00	0.0	1802.5	0.0	5.60	0.0	1802.5	0.0
			3	0.00	0.0	480.0	0.0	5.60	0.0	480.0	0.0
			2	0.00	0.0	450.0	0.0	5.60	0.0	450.0	0.0
			2	0.00	0.0	107.0	0.0	5.60	0.0	107.0	0.0
			8	0.00	0.0	0.0	-370.0	5.60	0.0	0.0	-370.0
			7	0.00	0.0	0.0	230.0	5.60	0.0	0.0	230.0
			4	0.00	0.0	60.0	0.0	5.60	0.0	60.0	0.0
			1	0.00	0.0	450.0	0.0	5.60	0.0	450.0	0.0
14	15	5.53	2	0.00	0.0	1425.0	0.0	5.53	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.53	0.0	1300.0	0.0
15	115	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
101	108	3.85	4	0.00	0.0	60.0	0.0	3.85	0.0	60.0	0.0
			3	0.00	0.0	480.0	0.0	3.85	0.0	480.0	0.0
			6	0.00	0.0	0.0	230.0	3.85	0.0	0.0	230.0
			5	0.00	0.0	0.0	-370.0	3.85	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	3.85	0.0	107.0	0.0
			2	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
			1	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
15	16	5.22	2	0.00	0.0	1425.0	0.0	5.22	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.22	0.0	1300.0	0.0
116	16	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
108	114	5.15	4	0.00	0.0	60.0	0.0	5.15	0.0	60.0	0.0
			6	0.00	0.0	0.0	230.0	5.15	0.0	0.0	230.0
			5	0.00	0.0	0.0	-370.0	5.15	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	5.15	0.0	107.0	0.0

			2	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
			3	0.00	0.0	480.0	0.0	5.15	0.0	480.0	0.0
			1	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
16	17	5.75	2	0.00	0.0	1425.0	0.0	5.75	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.75	0.0	1300.0	0.0
117	17	3.75	1	0.00	-450.0	0.0	0.0	3.75	-450.0	0.0	0.0
103	109	3.85	1	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
17	18	5.60	2	0.00	0.0	1425.0	0.0	5.60	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.60	0.0	1300.0	0.0
18	118	3.75	1	0.00	450.0	0.0	0.0	3.75	450.0	0.0	0.0
109	115	5.15	1	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
1	8	3.85	2	0.00	0.0	1425.0	0.0	3.85	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	3.85	0.0	1300.0	0.0
104	110	3.85	1	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
8	14	5.15	2	0.00	0.0	1425.0	0.0	5.15	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.15	0.0	1300.0	0.0
110	116	5.15	1	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
3	9	3.85	2	0.00	0.0	1425.0	0.0	3.85	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	3.85	0.0	1300.0	0.0
105	112	3.85	1	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
9	15	5.15	1	0.00	0.0	1300.0	0.0	5.15	0.0	1300.0	0.0
112	117	5.15	1	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
10	4	3.85	1	0.00	0.0	600.0	0.0	3.85	0.0	600.0	0.0
113	107	3.85	4	0.00	0.0	60.0	0.0	3.85	0.0	60.0	0.0
			5	0.00	0.0	0.0	230.0	3.85	0.0	0.0	230.0
			6	0.00	0.0	0.0	-370.0	3.85	0.0	0.0	-370.0
			2	0.00	0.0	107.0	0.0	3.85	0.0	107.0	0.0
			2	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
			3	0.00	0.0	480.0	0.0	3.85	0.0	480.0	0.0
			1	0.00	0.0	450.0	0.0	3.85	0.0	450.0	0.0
10	16	5.15	1	0.00	0.0	1300.0	0.0	5.15	0.0	1300.0	0.0
118	113	5.15	4	0.00	0.0	60.0	0.0	5.15	0.0	60.0	0.0
			2	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
			2	0.00	0.0	107.0	0.0	5.15	0.0	107.0	0.0
			6	0.00	0.0	0.0	-370.0	5.15	0.0	0.0	-370.0
			5	0.00	0.0	0.0	230.0	5.15	0.0	0.0	230.0
			3	0.00	0.0	480.0	0.0	5.15	0.0	480.0	0.0
			1	0.00	0.0	450.0	0.0	5.15	0.0	450.0	0.0
5	12	3.85	1	0.00	0.0	1300.0	0.0	3.85	0.0	1300.0	0.0
12	17	5.15	1	0.00	0.0	1300.0	0.0	5.15	0.0	1300.0	0.0
13	7	3.85	2	0.00	0.0	1425.0	0.0	3.85	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	3.85	0.0	1300.0	0.0
18	13	5.15	2	0.00	0.0	1425.0	0.0	5.15	0.0	1425.0	0.0
			1	0.00	0.0	1300.0	0.0	5.15	0.0	1300.0	0.0

Carichi concentrati

Nodo I	Nodo J	L [m]	Condizione di carico	x [m]	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
103	101	5.53	4	0.53				57.0	0.0	0.0
			4	1.53				57.0	0.0	0.0
			4	2.53				57.0	0.0	0.0
			4	3.53				57.0	0.0	0.0
			4	4.53				57.0	0.0	0.0
			4	5.53				57.0	0.0	0.0
			2	5.53				425.0	0.0	0.0
			2	4.53				425.0	0.0	0.0
			2	3.53				425.0	0.0	0.0
			2	2.53				425.0	0.0	0.0
			2	1.53				425.0	0.0	0.0
			2	0.53				425.0	0.0	0.0
			3	5.53				450.0	0.0	0.0
			3	4.53				450.0	0.0	0.0
			3	3.53				450.0	0.0	0.0
			3	2.53				450.0	0.0	0.0
			3	1.53				450.0	0.0	0.0
			3	0.53				450.0	0.0	0.0
104	103	5.22	4	0.22				57.0	0.0	0.0
			4	1.22				57.0	0.0	0.0
			4	2.22				57.0	0.0	0.0
			4	3.22				57.0	0.0	0.0
			4	4.22				57.0	0.0	0.0
			4	5.22				57.0	0.0	0.0
			2	5.22				425.0	0.0	0.0

			2	4.22				425.0	0.0	0.0
			2	3.22				425.0	0.0	0.0
			2	2.22				425.0	0.0	0.0
			2	1.22				425.0	0.0	0.0
			2	0.22				425.0	0.0	0.0
			3	5.22				450.0	0.0	0.0
			3	4.22				450.0	0.0	0.0
			3	3.22				450.0	0.0	0.0
			3	2.22				450.0	0.0	0.0
			3	1.22				450.0	0.0	0.0
			3	0.22				450.0	0.0	0.0
105	104	5.75	4	0.75				57.0	0.0	0.0
			4	1.75				57.0	0.0	0.0
			4	2.75				57.0	0.0	0.0
			4	3.75				57.0	0.0	0.0
			4	4.75				57.0	0.0	0.0
			4	5.75				57.0	0.0	0.0
			2	5.75				425.0	0.0	0.0
			2	4.75				425.0	0.0	0.0
			2	3.75				425.0	0.0	0.0
			2	2.75				425.0	0.0	0.0
			2	1.75				425.0	0.0	0.0
			2	0.75				425.0	0.0	0.0
			3	5.75				450.0	0.0	0.0
			3	4.75				450.0	0.0	0.0
			3	3.75				450.0	0.0	0.0
			3	2.75				450.0	0.0	0.0
			3	1.75				450.0	0.0	0.0
			3	0.75				450.0	0.0	0.0
107	105	5.60	4	0.60				57.0	0.0	0.0
			4	1.60				57.0	0.0	0.0
			4	2.60				57.0	0.0	0.0
			4	3.60				57.0	0.0	0.0
			4	4.60				57.0	0.0	0.0
			4	5.60				57.0	0.0	0.0
			2	5.60				425.0	0.0	0.0
			2	4.60				425.0	0.0	0.0
			2	3.60				425.0	0.0	0.0
			2	2.60				425.0	0.0	0.0
			2	1.60				425.0	0.0	0.0
			2	0.60				425.0	0.0	0.0
			3	5.60				450.0	0.0	0.0
			3	4.60				450.0	0.0	0.0
			3	3.60				450.0	0.0	0.0
			3	2.60				450.0	0.0	0.0
			3	1.60				450.0	0.0	0.0
			3	0.60				450.0	0.0	0.0
114	115	5.53	4	5.00				36.0	0.0	0.0
			4	4.00				36.0	0.0	0.0
			4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			3	5.00				290.0	0.0	0.0
			3	4.00				290.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0
			3	1.00				290.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			2	5.00				270.0	0.0	0.0
			2	4.00				270.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
115	116	5.22	4	5.00				36.0	0.0	0.0
			4	4.00				36.0	0.0	0.0
			4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			3	5.00				290.0	0.0	0.0
			3	4.00				290.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0

			3	1.00				290.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			2	5.00				270.0	0.0	0.0
			2	4.00				270.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
116	117	5.75	4	5.00				36.0	0.0	0.0
			4	4.00				36.0	0.0	0.0
			4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			3	5.00				290.0	0.0	0.0
			3	4.00				290.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0
			3	1.00				290.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			2	5.00				270.0	0.0	0.0
			2	4.00				270.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
117	118	5.60	4	5.00				36.0	0.0	0.0
			4	4.00				36.0	0.0	0.0
			4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			3	5.00				290.0	0.0	0.0
			3	4.00				290.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0
			3	1.00				290.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			2	5.00				270.0	0.0	0.0
			2	4.00				270.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
101	108	3.85	4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0
			3	1.00				290.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
108	114	5.15	4	5.00				36.0	0.0	0.0
			4	4.00				36.0	0.0	0.0
			4	3.00				36.0	0.0	0.0
			4	2.00				36.0	0.0	0.0
			4	1.00				36.0	0.0	0.0
			4	0.00				36.0	0.0	0.0
			2	0.00				270.0	0.0	0.0
			2	1.00				270.0	0.0	0.0
			2	2.00				270.0	0.0	0.0
			2	3.00				270.0	0.0	0.0
			2	4.00				270.0	0.0	0.0
			2	5.00				270.0	0.0	0.0
			3	0.00				290.0	0.0	0.0
			3	1.00				290.0	0.0	0.0
			3	2.00				290.0	0.0	0.0
			3	3.00				290.0	0.0	0.0
			3	4.00				290.0	0.0	0.0
			3	5.00				290.0	0.0	0.0
113	107	3.85	4	0.85				36.0	0.0	0.0

			4	1.85				36.0	0.0	0.0
			4	2.85				36.0	0.0	0.0
			4	3.85				36.0	0.0	0.0
			2	3.85				270.0	0.0	0.0
			2	2.85				270.0	0.0	0.0
			2	1.85				270.0	0.0	0.0
			2	0.85				270.0	0.0	0.0
			3	3.85				290.0	0.0	0.0
			3	2.85				290.0	0.0	0.0
			3	1.85				290.0	0.0	0.0
			3	0.85				290.0	0.0	0.0
118	113	5.15	4	0.15				36.0	0.0	0.0
			4	1.15				36.0	0.0	0.0
			4	2.15				36.0	0.0	0.0
			4	3.15				36.0	0.0	0.0
			4	4.15				36.0	0.0	0.0
			4	5.15				36.0	0.0	0.0
			2	1.15				270.0	0.0	0.0
			2	2.15				270.0	0.0	0.0
			2	3.15				270.0	0.0	0.0
			2	4.15				270.0	0.0	0.0
			2	5.15				270.0	0.0	0.0
			2	0.15				270.0	0.0	0.0
			3	5.15				290.0	0.0	0.0
			3	4.15				290.0	0.0	0.0
			3	3.15				290.0	0.0	0.0
			3	2.15				290.0	0.0	0.0
			3	1.15				290.0	0.0	0.0
			3	0.15				290.0	0.0	0.0

Variazioni Termiche

Nodo I	Nodo J	L [m]	Condizione di carico	Var Termica Assiale [°C]	Var Termica Farfalla 12 [°C]	Var Termica Farfalla 13 [°C]
103	101	5.53	10	-15		
			9	15		
101	1	3.75	9	15		
			10	-15		
104	103	5.22	9	15		
			10	-15		
3	103	3.75	9	15		
			10	-15		
105	104	5.75	10	-15		
			9	15		
104	4	3.75	9	15		
			10	-15		
107	105	5.60	10	-15		
			9	15		
105	5	3.75	9	15		
			10	-15		
108	109	5.53	9	15		
			10	-15		
107	7	3.75	10	-15		
			9	15		
109	110	5.22	9	15		
			10	-15		
108	8	3.75	9	15		
			10	-15		
110	112	5.75	9	15		
			10	-15		
9	109	3.75	9	15		
			10	-15		
112	113	5.60	10	-15		
			9	15		
10	110	3.75	9	15		
			10	-15		
114	115	5.53	9	15		
			10	-15		
12	112	3.75	9	15		
			10	-15		
115	116	5.22	10	-15		
			9	15		
13	113	3.75	9	15		
			10	-15		

116	117	5.75	9	15		
			10	-15		
114	14	3.75	9	15		
			10	-15		
117	118	5.60	10	-15		
			9	15		
15	115	3.75	9	15		
			10	-15		
101	108	3.85	10	-15		
			9	15		
116	16	3.75	9	15		
			10	-15		
108	114	5.15	10	-15		
			9	15		
117	17	3.75	9	15		
			10	-15		
103	109	3.85	9	15		
			10	-15		
18	118	3.75	9	15		
			10	-15		
109	115	5.15	9	15		
			10	-15		
104	110	3.85	9	15		
			10	-15		
110	116	5.15	9	15		
			10	-15		
105	112	3.85	9	15		
			10	-15		
112	117	5.15	9	15		
			10	-15		
113	107	3.85	9	15		
			10	-15		
118	113	5.15	10	-15		
			9	15		

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma *WinStrand* l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accellerazioni fornito dal regolamento italiano.

Dati generali relativi all'analisi dinamica

Spettro in accordo con TU 2018

- Santa Teresa di Riva Longitudine 15.3551 Latitudine 37.9372
- Tipo di Terreno C
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso IV coefficiente C_U 2.0
- Classe di duttilità impostata Bassa
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.05
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_W 1.00

Stato Limite	C $q_o = C\ \alpha_u/\alpha_1$	q_H	q_V
SLV	3.00	3.15	1.50
SLD	1.43	1.50	1.50
SLC	2.00	2.10	1.50
SLO	1.00	1.00	1.50

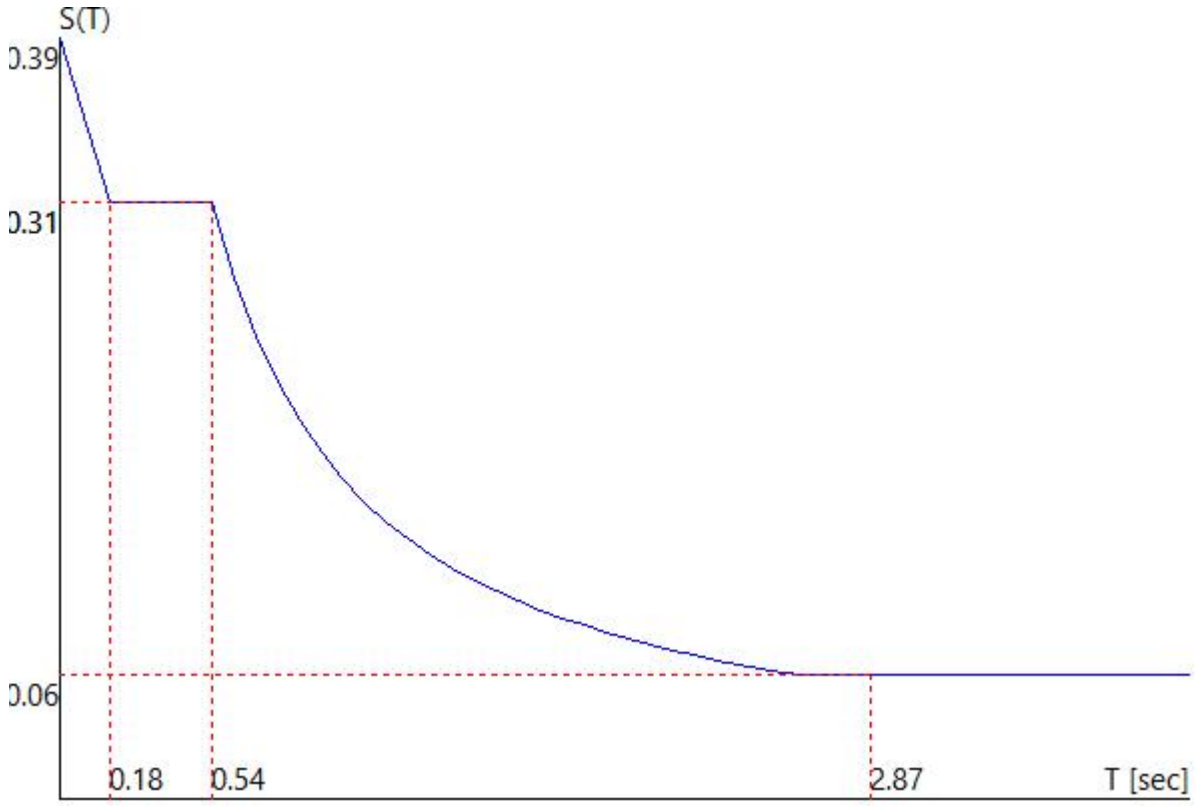
- Smorzamento Viscoso (0.05 = 5%) 0.05

TU 2018 SLV H

- Probabilità di superamento (P_{VR}) 10.0 e periodo di ritorno (T_R) 949 (anni)
- S_s 1.230

- T_B 0.18 [sec]
- T_C 0.54 [sec]
- T_D 2.87 [sec]
- a_g/g 0.3181
- F_o 2.4637
- T_C^* 0.3691

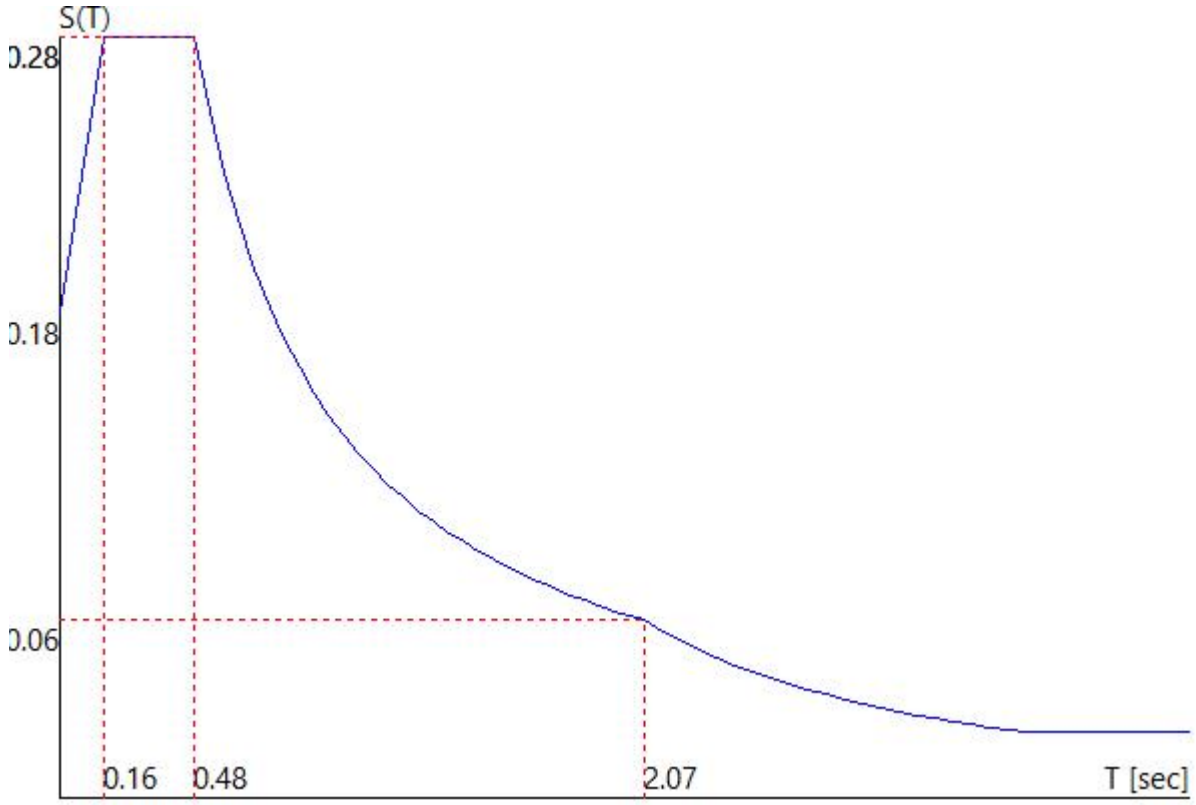
TU 2018 SLV H



TU 2018 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 101 (anni)
- S_s 1.500
- T_B 0.16 [sec]
- T_C 0.48 [sec]
- T_D 2.07 [sec]
- a_g/g 0.1169
- F_o 2.3581
- T_C^* 0.3099

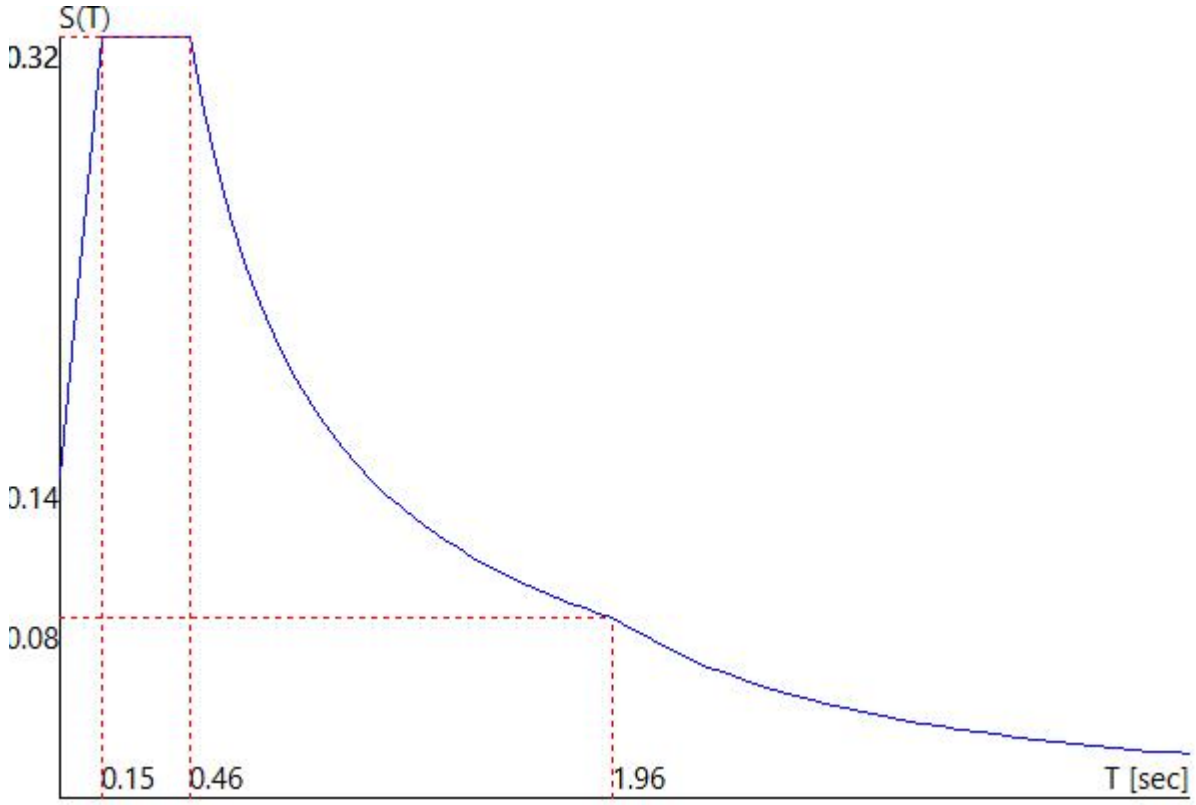
TU 2018 SLD H



TU 2018 SLO H

- Probabilità di superamento (P_{VR}) 81.0 e periodo di ritorno (T_R) 60 (anni)
- S_s 1.500
- T_B 0.15 [sec]
- T_C 0.46 [sec]
- T_D 1.96 [sec]
- a_g/g 0.0902
- F_o 2.3817
- T_C^* 0.2923

TU 2018 SLO H



Fattori di partecipazione per il calcolo delle masse
Cond. Carico 1 proprio 1.0000
Cond. Carico 2 portato 1.0000
Cond. Carico 3 accidentale 0.0000
Cond. Carico 4 neve 0.0000
Cond. Carico 5 vento x+ 0.0000
Cond. Carico 6 vento x- 0.0000
Cond. Carico 7 vento y- 0.0000
Cond. Carico 8 vento y- 0.0000
Cond. Carico 9 dt+ 0.0000
Cond. Carico 10 dt- 0.0000
Angoli d'ingresso del Sisma

- SLV Direzione 1 Angolo in pianta 0.00 [°]
- SLV Direzione 2 Angolo in pianta 0.00 [°]
- SLV Direzione 3 Angolo in pianta 90.00 [°]
- SLV Direzione 4 Angolo in pianta 90.00 [°]
- SLV Direzione 5 Angolo in pianta 180.00 [°]
- SLV Direzione 6 Angolo in pianta 180.00 [°]
- SLV Direzione 7 Angolo in pianta 270.00 [°]
- SLV Direzione 8 Angolo in pianta 270.00 [°]
- SLD Direzione 9 Angolo in pianta 0.00 [°]
- SLD Direzione 10 Angolo in pianta 0.00 [°]
- SLD Direzione 11 Angolo in pianta 90.00 [°]
- SLD Direzione 12 Angolo in pianta 90.00 [°]
- SLD Direzione 13 Angolo in pianta 180.00 [°]
- SLD Direzione 14 Angolo in pianta 180.00 [°]
- SLD Direzione 15 Angolo in pianta 270.00 [°]
- SLD Direzione 16 Angolo in pianta 270.00 [°]
- SLO Direzione 17 Angolo in pianta 0.00 [°]
- SLO Direzione 18 Angolo in pianta 0.00 [°]
- SLO Direzione 19 Angolo in pianta 90.00 [°]
- SLO Direzione 20 Angolo in pianta 90.00 [°]

- SLO Direzione 21 Angolo in pianta 180.00 [°]
- SLO Direzione 22 Angolo in pianta 180.00 [°]
- SLO Direzione 23 Angolo in pianta 270.00 [°]
- SLO Direzione 24 Angolo in pianta 270.00 [°]

Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	11.04	4.41	3.75	24379.0	1374772.6

Rigidezze traslanti dei solai.

Solaio	Kxx [kg/m]	Kyy [kg/m]	Kxy [kg/m]	Kxt [kgm]	Kyt [kgm]
1	2.4e+07	2.2e+07	3.1e+04	5.1e+06	-1.2e+07

Direzione d'ingresso 1 angolo 0.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.3060
2	1.54746e+03	39.338	0.16	0.3154
3	9.10308e+02	30.171	0.21	0.3060

Direzione d'ingresso 2 angolo 0.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.3060
2	9.08529e+02	30.142	0.21	0.3060
3	1.56474e+03	39.557	0.16	0.3158

Direzione d'ingresso 3 angolo 90.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.3060
2	1.63456e+03	40.430	0.16	0.3174
3	9.70888e+02	31.159	0.20	0.3060

Direzione d'ingresso 4 angolo 90.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.3060
2	1.54907e+03	39.358	0.16	0.3154
3	9.69946e+02	31.144	0.20	0.3060

Direzione d'ingresso 5 angolo 180.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.3060
2	9.08529e+02	30.142	0.21	0.3060
3	1.56474e+03	39.557	0.16	0.3158

Direzione d'ingresso 6 angolo 180.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.3060
2	1.54746e+03	39.338	0.16	0.3154
3	9.10308e+02	30.171	0.21	0.3060

Direzione d'ingresso 7 angolo 270.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.3060
2	1.54907e+03	39.358	0.16	0.3154
3	9.69946e+02	31.144	0.20	0.3060

Direzione d'ingresso 8 angolo 270.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.3060
2	1.63456e+03	40.430	0.16	0.3174
3	9.70888e+02	31.159	0.20	0.3060

Direzione d'ingresso 9 angolo 0.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.2756
2	1.54746e+03	39.338	0.16	0.2756
3	9.10308e+02	30.171	0.21	0.2756

Direzione d'ingresso 10 angolo 0.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.2756
2	9.08529e+02	30.142	0.21	0.2756
3	1.56474e+03	39.557	0.16	0.2751

Direzione d'ingresso 11 angolo 90.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.2756
2	1.63456e+03	40.430	0.16	0.2729
3	9.70888e+02	31.159	0.20	0.2756

Direzione d'ingresso 12 angolo 90.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.2756
2	1.54907e+03	39.358	0.16	0.2756
3	9.69946e+02	31.144	0.20	0.2756

Direzione d'ingresso 13 angolo 180.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.2756
2	9.08529e+02	30.142	0.21	0.2756
3	1.56474e+03	39.557	0.16	0.2751

Direzione d'ingresso 14 angolo 180.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.2756
2	1.54746e+03	39.338	0.16	0.2756
3	9.10308e+02	30.171	0.21	0.2756

Direzione d'ingresso 15 angolo 270.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.2756
2	1.54907e+03	39.358	0.16	0.2756
3	9.69946e+02	31.144	0.20	0.2756

Direzione d'ingresso 16 angolo 270.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.2756
2	1.63456e+03	40.430	0.16	0.2729
3	9.70888e+02	31.159	0.20	0.2756

Direzione d'ingresso 17 angolo 0.00 [°] + SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.3221
2	1.54746e+03	39.338	0.16	0.3221
3	9.10308e+02	30.171	0.21	0.3221

Direzione d'ingresso 18 angolo 0.00 [°] - SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.3221
2	9.08529e+02	30.142	0.21	0.3221
3	1.56474e+03	39.557	0.16	0.3221

Direzione d'ingresso 19 angolo 90.00 [°] + SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.3221
2	1.63456e+03	40.430	0.16	0.3221
3	9.70888e+02	31.159	0.20	0.3221

Direzione d'ingresso 20 angolo 90.00 [°] - SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.3221
2	1.54907e+03	39.358	0.16	0.3221
3	9.69946e+02	31.144	0.20	0.3221

Direzione d'ingresso 21 angolo 180.00 [°] + SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.60875e+02	30.998	0.20	0.3221
2	9.08529e+02	30.142	0.21	0.3221
3	1.56474e+03	39.557	0.16	0.3221

Direzione d'ingresso 22 angolo 180.00 [°] - SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.69703e+02	31.140	0.20	0.3221
2	1.54746e+03	39.338	0.16	0.3221
3	9.10308e+02	30.171	0.21	0.3221

Direzione d'ingresso 23 angolo 270.00 [°] + SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	9.09133e+02	30.152	0.21	0.3221
2	1.54907e+03	39.358	0.16	0.3221
3	9.69946e+02	31.144	0.20	0.3221

Direzione d'ingresso 24 angolo 270.00 [°] - SLO

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	8.60750e+02	29.339	0.21	0.3221
2	1.63456e+03	40.430	0.16	0.3221
3	9.70888e+02	31.159	0.20	0.3221

Direzione di Ingresso del Sisma 1 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
1	1.55847e+02	100.0	2.42884e+04	99.6	99.6
2	-8.21355e+00	5.3	6.74625e+01	0.3	99.9
3	4.80894e+00	3.1	2.31259e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 1 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	1	72902.4	-2633.4	59764.5			
	2	208.7	405.0	-29502.3			
	3	69.4	2240.5	1787.7			
				Per Via Statica Equivalente	73174.3	0.0	160154.2
				Per Via Modale	72997.8	1134.6	63927.2
				Variazione	-176.5	1134.6	-96227.0

Direzione di Ingresso del Sisma 2 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
4	1.51654e+02	100.0	2.29990e+04	94.3	94.3
5	-2.97429e+01	19.6	8.84638e+02	3.6	98.0
6	2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 2 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	4	69032.2	14594.7	-95196.9			
	5	2655.3	-13573.6	-14211.3			
	6	1534.5	-1053.8	78932.0			
				Per Via Statica Equivalente	73174.3	0.0	-17137.6
				Per Via Modale	71734.6	-5476.8	-124903.2
				Variazione	-1439.7	-5476.8	-107765.6

Direzione di Ingresso del Sisma 3 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
7	1.49833e+02	100.0	2.24499e+04	92.1	92.1
8	-4.17970e+01	27.9	1.74699e+03	7.2	99.3
9	1.34967e+01	9.0	1.82161e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	1.10	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 3 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	7	-5525.3	67383.9	216871.7			
	8	-804.4	5439.7	-140892.0			
	9	6300.7	546.8	-199.6			
				Per Via Statica Equivalente	-0.0	73174.3	231016.5
				Per Via Modale	-4391.4	68475.9	248035.3
				Variazione	-4391.4	-4698.5	17018.8

Direzione di Ingresso del Sisma 4 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
10	1.55084e+02	100.0	2.40511e+04	98.7	98.7
11	1.72552e+01	11.1	2.97741e+02	1.2	99.9
12	-5.49449e+00	3.5	3.01895e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	-1.10	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 4 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	10	2179.7	72190.0	-140917.7			
	11	403.2	921.2	61123.0			
	12	-2570.8	90.6	764.7			
				Per Via Statica Equivalente	-0.0	73174.3	-42103.4
				Per Via Modale	1130.3	72390.0	-146001.9
				Variazione	1130.3	-784.3	-103898.5

Direzione di Ingresso del Sisma 5 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
13	-1.51654e+02	100.0	2.29990e+04	94.3	94.3
14	2.97429e+01	19.6	8.84642e+02	3.6	98.0
15	-2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 5 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	13	-69032.2	-14594.7	95196.9			
	14	-2655.3	13573.6	14211.3			
	15	-1534.5	1053.8	-78932.0			
				Per Via Statica Equivalente	-73174.3	-0.0	-160154.2
				Per Via Modale	-71734.6	5476.8	124903.3
				Variazione	1439.7	5476.8	285057.5

Direzione di Ingresso del Sisma 6 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
16	-1.55847e+02	100.0	2.42884e+04	99.6	99.6
17	8.21355e+00	5.3	6.74624e+01	0.3	99.9
18	-4.80887e+00	3.1	2.31252e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 6 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	16	-72902.4	2633.4	-59764.5			
	17	-208.7	-405.0	29502.2			
	18	-69.4	-2240.4	-1787.7			
				Per Via Statica Equivalente	-73174.3	-0.0	17137.6
				Per Via Modale	-72997.8	-1134.6	-63927.2
				Variazione	176.5	-1134.6	-81064.8

Direzione di Ingresso del Sisma 7 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
19	-1.55084e+02	100.0	2.40511e+04	98.7	98.7
20	-1.72552e+01	11.1	2.97741e+02	1.2	99.9
21	5.49442e+00	3.5	3.01887e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	22.10	9.00	22.10	1.11	-1.11	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 7 Angolo 270.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	19	-2179.7	-72190.0	140917.7			
	20	-403.2	-921.2	-61123.0			
	21	2570.8	-90.6	-764.7			
				Per Via Statica Equivalente	0.0	-73174.3	-231016.5
				Per Via Modale	-1130.3	-72390.0	146002.0
				Variazione	-1130.3	784.3	377018.5

Direzione di Ingresso del Sisma 8 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
22	-1.49833e+02	100.0	2.24499e+04	92.1	92.1
23	4.17970e+01	27.9	1.74699e+03	7.2	99.3
24	-1.34968e+01	9.0	1.82164e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	22.10	9.00	22.10	1.11	1.11	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 8 Angolo 270.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	22	5525.3	-67383.9	-216871.7			
	23	804.4	-5439.7	140892.0			
	24	-6300.7	-546.8	199.6			
				Per Via Statica Equivalente	0.0	-73174.3	42103.4
				Per Via Modale	4391.4	-68475.9	-248035.3
				Variazione	4391.4	4698.5	-290138.7

Direzione di Ingresso del Sisma 9 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
25	1.55847e+02	100.0	2.42884e+04	99.6	99.6
26	-8.21355e+00	5.3	6.74625e+01	0.3	99.9

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
27	4.80894e+00	3.1	2.31259e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 9 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	25	65668.1	-2372.1	53833.8			
	26	182.4	353.9	-25783.3			
	27	62.5	2018.1	1610.3			
				Per Via Statica Equivalente	65913.0	0.0	144261.5
				Per Via Modale	65753.1	1019.5	57339.2
				Variazione	-159.9	1019.5	-86922.3

Direzione di Ingresso del Sisma 10 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
28	1.51654e+02	100.0	2.29990e+04	94.3	94.3
29	-2.97429e+01	19.6	8.84638e+02	3.6	98.0
30	2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 10 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	28	62181.9	13146.4	-85750.2			
	29	2391.8	-12226.6	-12801.0			
	30	1336.8	-918.1	68763.5			
				Per Via Statica Equivalente	65913.0	0.0	-15437.0
				Per Via Modale	64608.8	4930.1	-111335.3
				Variazione	-1304.2	4930.1	-95898.3

Direzione di Ingresso del Sisma 11 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
31	1.49833e+02	100.0	2.24499e+04	92.1	92.1
32	-4.17970e+01	27.9	1.74699e+03	7.2	99.3
33	1.34967e+01	9.0	1.82161e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	1.10	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 11 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	31	-4977.0	60697.2	195350.7			
	32	-691.7	4677.7	-121155.5			
	33	5675.4	492.5	-179.8			

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
				Per Via Statica Equivalente	-0.0	65913.0	208091.9
				Per Via Modale	3952.2	61644.3	220645.9
				Variazione	3952.2	-4268.7	12554.0

Direzione di Ingresso del Sisma 12 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
34	1.55084e+02	100.0	2.40511e+04	98.7	98.7
35	1.72552e+01	11.1	2.97741e+02	1.2	99.9
36	-5.49449e+00	3.5	3.01895e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	-1.10	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 12 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	34	1963.4	65026.4	-126934.0			
	35	352.3	805.0	53410.5			
	36	-2315.7	81.6	688.8			
				Per Via Statica Equivalente	-0.0	65913.0	-37925.3
				Per Via Modale	1015.5	65203.2	-131025.7
				Variazione	1015.5	-709.8	-93100.4

Direzione di Ingresso del Sisma 13 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
37	-1.51654e+02	100.0	2.29990e+04	94.3	94.3
38	2.97429e+01	19.6	8.84642e+02	3.6	98.0
39	-2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 13 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	37	-62181.9	-13146.4	85750.2			
	38	-2391.8	12226.7	12801.1			
	39	-1336.8	918.1	-68763.5			
				Per Via Statica Equivalente	-65913.0	-0.0	-144261.5
				Per Via Modale	-64608.8	-4930.1	111335.3
				Variazione	1304.2	-4930.1	255596.8

Direzione di Ingresso del Sisma 14 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
40	-1.55847e+02	100.0	2.42884e+04	99.6	99.6
41	8.21355e+00	5.3	6.74624e+01	0.3	99.9
42	-4.80887e+00	3.1	2.31252e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 14 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	40	-65668.1	2372.1	-53833.8			
	41	-182.4	-353.9	25783.3			
	42	-62.5	-2018.1	-1610.3			
				Per Via Statica Equivalente	-65913.0	-0.0	15437.0
				Per Via Modale	-65753.1	1019.5	-57339.2
				Variazione	159.9	1019.5	-72776.1

Direzione di Ingresso del Sisma 15 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
43	-1.55084e+02	100.0	2.40511e+04	98.7	98.7
44	-1.72552e+01	11.1	2.97741e+02	1.2	99.9
45	5.49442e+00	3.5	3.01887e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	22.10	9.00	22.10	1.11	-1.11	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 15 Angolo 270.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	43	-1963.4	-65026.4	126934.0			
	44	-352.3	-805.0	-53410.5			
	45	2315.7	-81.6	-688.8			
				Per Via Statica Equivalente	0.0	-65913.0	-208091.9
				Per Via Modale	-1015.5	-65203.2	131025.8
				Variazione	-1015.5	709.8	339117.7

Direzione di Ingresso del Sisma 16 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
46	-1.49833e+02	100.0	2.24499e+04	92.1	92.1
47	4.17970e+01	27.9	1.74699e+03	7.2	99.3
48	-1.34968e+01	9.0	1.82164e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	22.10	9.00	22.10	1.11	1.11	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 16 Angolo 270.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	46	4977.0	-60697.2	-195350.7			
	47	691.7	-4677.7	121155.5			
	48	-5675.5	-492.5	179.8			
				Per Via Statica Equivalente	0.0	-65913.0	37925.3
				Per Via Modale	-3952.2	-61644.3	-220645.9
				Variazione	-3952.2	4268.7	-258571.3

Direzione di Ingresso del Sisma 17 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
49	1.55847e+02	100.0	2.42884e+04	99.6	99.6
50	-8.21355e+00	5.3	6.74625e+01	0.3	99.9
51	4.80894e+00	3.1	2.31259e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 17 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	49	76756.9	-2772.6	62924.3			
	50	213.2	413.7	-30137.1			
	51	73.1	2358.9	1882.2			
				Per Via Statica Equivalente	77043.2	0.0	168621.8
				Per Via Modale	76856.3	1191.6	67021.6
				Variazione	-186.9	1191.6	-101600.2

Direzione di Ingresso del Sisma 18 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
52	1.51654e+02	100.0	2.29990e+04	94.3	94.3
53	-2.97429e+01	19.6	8.84638e+02	3.6	98.0
54	2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 18 Angolo 0.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	52	72682.1	15366.3	-100230.1			
	53	2795.7	-14291.3	-14962.6			
	54	1565.5	-1075.1	80523.3			
				Per Via Statica Equivalente	77043.2	0.0	-18043.7
				Per Via Modale	75519.2	5762.8	-130209.0
				Variazione	-1524.0	5762.8	-112165.3

Direzione di Ingresso del Sisma 19 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
55	1.49833e+02	100.0	2.24499e+04	92.1	92.1
56	-4.17970e+01	27.9	1.74699e+03	7.2	99.3
57	1.34967e+01	9.0	1.82161e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	1.10	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 19 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	55	-5817.4	70946.6	228338.0			
	56	-816.4	5520.9	-142995.2			
	57	6633.8	575.7	-210.1			
				Per Via Statica Equivalente	-0.0	77043.2	243230.7
				Per Via Modale	4620.3	72062.3	258559.8
				Variazione	4620.3	-4980.8	15329.1

Direzione di Ingresso del Sisma 20 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
58	1.55084e+02	100.0	2.40511e+04	98.7	98.7
59	1.72552e+01	11.1	2.97741e+02	1.2	99.9
60	-5.49449e+00	3.5	3.01895e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.10	-1.10	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 20 Angolo 90.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	58	2295.0	76006.8	-148368.3			
	59	411.8	940.9	62430.5			
	60	-2706.8	95.4	805.1			
				Per Via Statica Equivalente	-0.0	77043.2	-44329.5
				Per Via Modale	1187.0	76213.5	-153151.3
				Variazione	1187.0	-829.7	-108821.8

Direzione di Ingresso del Sisma 21 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
61	-1.51654e+02	100.0	2.29990e+04	94.3	94.3
62	2.97429e+01	19.6	8.84642e+02	3.6	98.0
63	-2.22568e+01	14.7	4.95367e+02	2.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	-0.00	0.45	-10970.6	-0.0	4936.8

Direzione di Ingresso del Sisma 21 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	61	-72682.0	-15366.3	100230.1			
	62	-2795.7	14291.3	14962.7			
	63	-1565.5	1075.1	-80523.4			
				Per Via Statica Equivalente	-77043.2	-0.0	-168621.8
				Per Via Modale	-75519.2	5762.8	130209.0
				Variazione	1524.0	5762.9	298830.8

Direzione di Ingresso del Sisma 22 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
64	-1.55847e+02	100.0	2.42884e+04	99.6	99.6
65	8.21355e+00	5.3	6.74624e+01	0.3	99.9
66	-4.80887e+00	3.1	2.31252e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	9.00	0.45	0.00	-0.45	10970.6	0.0	4936.8

Direzione di Ingresso del Sisma 22 Angolo 180.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	64	-76756.9	2772.6	-62924.3			
	65	-213.2	-413.7	30137.1			
	66	-73.1	-2358.9	-1882.2			
				Per Via Statica Equivalente	-77043.2	-0.0	18043.7
				Per Via Modale	-76856.3	1191.6	-67021.6
				Variazione	186.9	1191.6	-85065.3

Direzione di Ingresso del Sisma 23 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
67	-1.55084e+02	100.0	2.40511e+04	98.7	98.7
68	-1.72552e+01	11.1	2.97741e+02	1.2	99.9
69	5.49442e+00	3.5	3.01887e+01	0.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.11	-1.11	-0.00	0.0	-26938.8	29767.4

Direzione di Ingresso del Sisma 23 Angolo 270.00 [°]

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	67	-2295.0	-76006.8	148368.3			
	68	-411.8	-940.9	-62430.5			
	69	2706.7	-95.4	-805.1			
				Per Via Statica Equivalente	0.0	-77043.2	-243230.7
				Per Via Modale	-1187.0	-76213.5	153151.3
				Variazione	-1187.0	829.7	396382.0

Direzione di Ingresso del Sisma 24 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
70	-1.49833e+02	100.0	2.24499e+04	92.1	92.1
71	4.17970e+01	27.9	1.74699e+03	7.2	99.3
72	-1.34968e+01	9.0	1.82164e+02	0.7	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta		Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp
	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m^2]
1	22.10	9.00	22.10	1.11	1.11	0.00	-0.0	26938.8	29767.4

Direzione di Ingresso del Sisma 24 Angolo 270.00 [°]

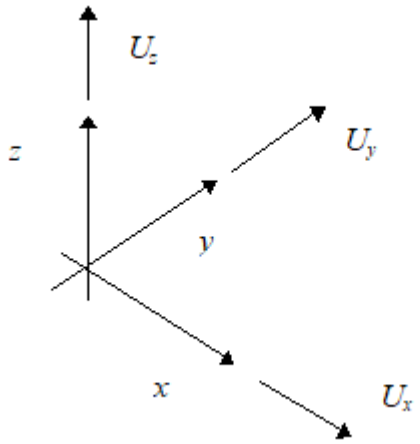
Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
1	70	5817.4	-70946.6	-228338.0			

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
	71	816.4	-5520.9	142995.2			
	72	-6633.8	-575.7	210.2			
				Per Via Statica Equivalente	0.0	-77043.2	44329.5
				Per Via Modale	-4620.4	-72062.3	-258559.8
				Variazione	-4620.4	4980.8	-302889.3

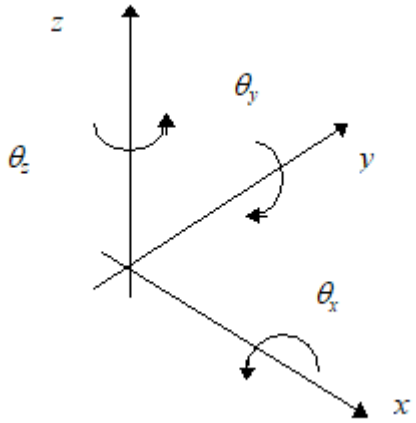
Spostamenti nodali

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per le componenti di spostamento nodale:



e per quanto riguarda le rotazioni:



Nel seguito vengono riportate, per ogni nodo (con esclusione dei nodi *K* che definiscono l'orientamento delle aste e quindi, essendo bloccati, hanno componenti di spostamento nulle), le componenti di spostamento in tutte le combinazioni di carico definite.

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	1	0.00	0.00	-0.33	0.01	-0.01	0.00
	2	0.00	0.00	-0.29	0.01	-0.01	0.00
	3	0.00	0.00	-0.29	0.01	-0.01	0.00
	4	0.00	0.00	-0.29	0.01	-0.01	0.00
	5	0.00	0.00	-0.29	0.01	-0.01	0.00
	6	0.00	0.00	-0.29	0.01	-0.01	0.00
	7	0.00	0.00	-0.29	0.01	-0.01	0.00
	8	0.00	0.00	-0.29	0.01	-0.01	0.00
	9	0.00	0.00	-0.16	0.00	0.00	0.00
	10	0.00	0.00	-0.20	0.01	-0.00	0.00
	11	0.00	0.00	-0.12	-0.01	0.01	0.00
	12	0.00	0.00	-0.17	0.00	0.00	0.00
	13	0.00	0.00	-0.14	-0.01	0.00	0.00
	14	0.00	0.00	-0.16	-0.01	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.09	-0.02	0.01	0.00
	16	0.00	0.00	-0.11	-0.02	0.00	0.00
	17	0.00	0.00	-0.23	0.01	-0.01	0.00
	18	0.00	0.00	-0.28	0.02	-0.01	0.00
	19	0.00	0.00	-0.20	0.00	-0.01	0.00
	20	0.00	0.00	-0.25	0.01	-0.01	0.00
	21	0.00	0.00	-0.29	0.03	-0.01	0.00
	22	0.00	0.00	-0.31	0.03	-0.01	0.00
	23	0.00	0.00	-0.24	0.02	-0.01	0.00
	24	0.00	0.00	-0.27	0.02	-0.01	0.00
	25	0.00	0.00	-0.23	0.01	-0.01	0.00
	26	0.00	0.00	-0.21	0.01	-0.00	0.00
	27	0.00	0.00	-0.20	0.01	-0.00	0.00
	28	0.00	0.00	-0.20	0.01	-0.00	0.00
	29	0.00	0.00	-0.20	0.01	-0.00	0.00
	30	0.00	0.00	-0.20	0.01	-0.00	0.00
	31	0.00	0.00	-0.20	0.01	-0.00	0.00
	32	0.00	0.00	-0.20	0.01	-0.00	0.00
	33	0.00	0.00	-0.20	0.01	-0.00	0.00
	34	0.00	0.00	-0.20	0.01	-0.00	0.00
	35	0.00	0.00	-0.20	0.01	-0.00	0.00
	36	0.00	0.00	-0.20	0.01	-0.00	0.00
	37	0.00	0.00	-0.20	0.01	-0.00	0.00
	38	0.00	0.00	-0.20	0.01	-0.00	0.00
	39	0.00	0.00	-0.20	0.01	-0.00	0.00
	40	0.00	0.00	-0.20	0.01	-0.00	0.00
	41	0.00	0.00	-0.20	0.01	-0.00	0.00
	42	0.00	0.00	-0.16	0.00	0.00	0.00
	43	0.00	0.00	-0.20	0.01	-0.00	0.00
	44	0.00	0.00	-0.13	-0.01	0.01	0.00
	45	0.00	0.00	-0.17	0.00	0.00	0.00
	46	0.00	0.00	-0.14	-0.01	0.00	0.00
	47	0.00	0.00	-0.16	-0.00	-0.00	0.00
	48	0.00	0.00	-0.10	-0.02	0.01	0.00
	49	0.00	0.00	-0.12	-0.01	0.00	0.00
	50	0.00	0.00	-0.23	0.01	-0.01	0.00
	51	0.00	0.00	-0.27	0.02	-0.01	0.00
	52	0.00	0.00	-0.20	0.00	-0.01	0.00
	53	0.00	0.00	-0.24	0.01	-0.01	0.00
	54	0.00	0.00	-0.28	0.03	-0.01	0.00
	55	0.00	0.00	-0.30	0.03	-0.01	0.00
	56	0.00	0.00	-0.24	0.02	-0.01	0.00
	57	0.00	0.00	-0.26	0.02	-0.01	0.00
	58	0.00	0.00	-0.15	0.00	0.00	0.00
	59	0.00	0.00	-0.20	0.01	0.00	0.00
	60	0.00	0.00	-0.12	-0.01	0.01	0.00
	61	0.00	0.00	-0.17	0.00	0.00	0.00
	62	0.00	0.00	-0.13	-0.01	0.00	0.00
	63	0.00	0.00	-0.16	-0.01	-0.00	0.00
	64	0.00	0.00	-0.08	-0.02	0.01	0.00
	65	0.00	0.00	-0.11	-0.02	0.00	0.00
	66	0.00	0.00	-0.23	0.01	-0.01	0.00
	67	0.00	0.00	-0.28	0.02	-0.01	0.00
	68	0.00	0.00	-0.20	0.00	-0.01	0.00
	69	0.00	0.00	-0.25	0.01	-0.01	0.00
	70	0.00	0.00	-0.29	0.03	-0.01	0.00
	71	0.00	0.00	-0.32	0.03	-0.01	0.00
	72	0.00	0.00	-0.25	0.02	-0.01	0.00
	73	0.00	0.00	-0.27	0.02	-0.01	0.00
2	1	0.00	0.00	-0.36	0.02	0.02	0.00
	2	0.00	0.00	-0.32	0.01	0.01	0.00
	3	0.00	0.00	-0.32	0.01	0.01	0.00
	4	0.00	0.00	-0.32	0.01	0.01	0.00
	5	0.00	0.00	-0.32	0.01	0.01	0.00
	6	0.00	0.00	-0.32	0.01	0.01	0.00
	7	0.00	0.00	-0.32	0.01	0.01	0.00
	8	0.00	0.00	-0.32	0.01	0.01	0.00
	9	0.00	0.00	-0.19	0.00	0.01	0.00
	10	0.00	0.00	-0.22	0.01	0.01	0.00
	11	0.00	0.00	-0.18	-0.00	0.01	0.00
	12	0.00	0.00	-0.21	0.01	0.01	0.00
	13	0.00	0.00	-0.17	-0.00	0.01	0.00
	14	0.00	0.00	-0.18	-0.00	0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.15	-0.01	0.01	0.00
	16	0.00	0.00	-0.17	-0.01	0.01	0.00
	17	0.00	0.00	-0.23	0.01	0.01	0.00
	18	0.00	0.00	-0.26	0.02	0.01	0.00
	19	0.00	0.00	-0.22	0.00	0.01	0.00
	20	0.00	0.00	-0.25	0.01	0.01	0.00
	21	0.00	0.00	-0.27	0.03	0.01	0.00
	22	0.00	0.00	-0.29	0.03	0.01	0.00
	23	0.00	0.00	-0.26	0.02	0.01	0.00
	24	0.00	0.00	-0.27	0.02	0.01	0.00
	25	0.00	0.00	-0.25	0.01	0.01	0.00
	26	0.00	0.00	-0.23	0.01	0.01	0.00
	27	0.00	0.00	-0.22	0.01	0.01	0.00
	28	0.00	0.00	-0.22	0.01	0.01	0.00
	29	0.00	0.00	-0.22	0.01	0.01	0.00
	30	0.00	0.00	-0.22	0.01	0.01	0.00
	31	0.00	0.00	-0.22	0.01	0.01	0.00
	32	0.00	0.00	-0.22	0.01	0.01	0.00
	33	0.00	0.00	-0.22	0.01	0.01	0.00
	34	0.00	0.00	-0.22	0.01	0.01	0.00
	35	0.00	0.00	-0.22	0.01	0.01	0.00
	36	0.00	0.00	-0.22	0.01	0.01	0.00
	37	0.00	0.00	-0.22	0.01	0.01	0.00
	38	0.00	0.00	-0.22	0.01	0.01	0.00
	39	0.00	0.00	-0.22	0.01	0.01	0.00
	40	0.00	0.00	-0.22	0.01	0.01	0.00
	41	0.00	0.00	-0.22	0.01	0.01	0.00
	42	0.00	0.00	-0.19	0.00	0.01	0.00
	43	0.00	0.00	-0.22	0.01	0.01	0.00
	44	0.00	0.00	-0.18	-0.00	0.01	0.00
	45	0.00	0.00	-0.21	0.01	0.01	0.00
	46	0.00	0.00	-0.18	-0.00	0.01	0.00
	47	0.00	0.00	-0.19	-0.00	0.01	0.00
	48	0.00	0.00	-0.16	-0.01	0.01	0.00
	49	0.00	0.00	-0.17	-0.01	0.01	0.00
	50	0.00	0.00	-0.23	0.01	0.01	0.00
	51	0.00	0.00	-0.26	0.02	0.01	0.00
	52	0.00	0.00	-0.22	0.00	0.01	0.00
	53	0.00	0.00	-0.25	0.01	0.01	0.00
	54	0.00	0.00	-0.27	0.03	0.01	0.00
	55	0.00	0.00	-0.28	0.03	0.01	0.00
	56	0.00	0.00	-0.25	0.02	0.01	0.00
	57	0.00	0.00	-0.26	0.02	0.01	0.00
	58	0.00	0.00	-0.19	0.00	0.01	0.00
	59	0.00	0.00	-0.22	0.01	0.01	0.00
	60	0.00	0.00	-0.17	-0.00	0.01	0.00
	61	0.00	0.00	-0.21	0.01	0.01	0.00
	62	0.00	0.00	-0.17	-0.00	0.01	0.00
	63	0.00	0.00	-0.18	-0.00	0.01	0.00
	64	0.00	0.00	-0.15	-0.01	0.01	0.00
	65	0.00	0.00	-0.16	-0.01	0.01	0.00
	66	0.00	0.00	-0.23	0.01	0.01	0.00
	67	0.00	0.00	-0.27	0.02	0.01	0.00
	68	0.00	0.00	-0.22	0.00	0.01	0.00
	69	0.00	0.00	-0.25	0.01	0.01	0.00
	70	0.00	0.00	-0.28	0.03	0.01	0.00
	71	0.00	0.00	-0.29	0.03	0.01	0.00
	72	0.00	0.00	-0.26	0.02	0.01	0.00
	73	0.00	0.00	-0.27	0.02	0.01	0.00
3	1	0.00	0.00	-0.41	0.03	0.01	0.00
	2	0.00	0.00	-0.37	0.03	0.01	0.00
	3	0.00	0.00	-0.36	0.02	0.01	0.00
	4	0.00	0.00	-0.36	0.02	0.01	0.00
	5	0.00	0.00	-0.36	0.02	0.01	0.00
	6	0.00	0.00	-0.36	0.02	0.01	0.00
	7	0.00	0.00	-0.36	0.02	0.01	0.00
	8	0.00	0.00	-0.36	0.02	0.01	0.00
	9	0.00	0.00	-0.23	0.01	0.02	0.00
	10	0.00	0.00	-0.26	0.02	0.02	0.00
	11	0.00	0.00	-0.22	0.01	0.01	0.00
	12	0.00	0.00	-0.25	0.02	0.02	0.00
	13	0.00	0.00	-0.20	0.01	0.01	0.00
	14	0.00	0.00	-0.20	0.01	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.18	0.00	0.01	0.00
	16	0.00	0.00	-0.19	0.00	0.00	0.00
	17	0.00	0.00	-0.25	0.02	-0.00	0.00
	18	0.00	0.00	-0.28	0.02	-0.00	0.00
	19	0.00	0.00	-0.24	0.01	-0.00	0.00
	20	0.00	0.00	-0.27	0.02	-0.00	0.00
	21	0.00	0.00	-0.31	0.03	0.01	0.00
	22	0.00	0.00	-0.31	0.03	0.00	0.00
	23	0.00	0.00	-0.29	0.03	0.01	0.00
	24	0.00	0.00	-0.30	0.03	0.00	0.00
	25	0.00	0.00	-0.29	0.02	0.01	0.00
	26	0.00	0.00	-0.26	0.02	0.01	0.00
	27	0.00	0.00	-0.25	0.02	0.01	0.00
	28	0.00	0.00	-0.25	0.02	0.01	0.00
	29	0.00	0.00	-0.25	0.02	0.01	0.00
	30	0.00	0.00	-0.25	0.02	0.01	0.00
	31	0.00	0.00	-0.25	0.02	0.01	0.00
	32	0.00	0.00	-0.25	0.02	0.01	0.00
	33	0.00	0.00	-0.25	0.02	0.01	0.00
	34	0.00	0.00	-0.25	0.02	0.01	0.00
	35	0.00	0.00	-0.25	0.02	0.01	0.00
	36	0.00	0.00	-0.25	0.02	0.01	0.00
	37	0.00	0.00	-0.25	0.02	0.01	0.00
	38	0.00	0.00	-0.25	0.02	0.01	0.00
	39	0.00	0.00	-0.25	0.02	0.01	0.00
	40	0.00	0.00	-0.25	0.02	0.01	0.00
	41	0.00	0.00	-0.25	0.02	0.01	0.00
	42	0.00	0.00	-0.23	0.01	0.01	0.00
	43	0.00	0.00	-0.26	0.02	0.02	0.00
	44	0.00	0.00	-0.22	0.01	0.01	0.00
	45	0.00	0.00	-0.25	0.02	0.01	0.00
	46	0.00	0.00	-0.20	0.01	0.01	0.00
	47	0.00	0.00	-0.21	0.01	0.00	0.00
	48	0.00	0.00	-0.19	0.00	0.01	0.00
	49	0.00	0.00	-0.19	0.01	0.00	0.00
	50	0.00	0.00	-0.25	0.02	-0.00	0.00
	51	0.00	0.00	-0.28	0.02	-0.00	0.00
	52	0.00	0.00	-0.24	0.01	-0.00	0.00
	53	0.00	0.00	-0.27	0.02	-0.00	0.00
	54	0.00	0.00	-0.30	0.03	0.01	0.00
	55	0.00	0.00	-0.31	0.03	0.00	0.00
	56	0.00	0.00	-0.29	0.02	0.01	0.00
	57	0.00	0.00	-0.29	0.03	0.00	0.00
	58	0.00	0.00	-0.23	0.01	0.02	0.00
	59	0.00	0.00	-0.26	0.02	0.02	0.00
	60	0.00	0.00	-0.21	0.01	0.01	0.00
	61	0.00	0.00	-0.25	0.02	0.02	0.00
	62	0.00	0.00	-0.20	0.01	0.01	0.00
	63	0.00	0.00	-0.20	0.01	0.00	0.00
	64	0.00	0.00	-0.18	0.00	0.01	0.00
	65	0.00	0.00	-0.18	0.00	0.00	0.00
	66	0.00	0.00	-0.25	0.02	-0.00	0.00
	67	0.00	0.00	-0.28	0.02	-0.00	0.00
	68	0.00	0.00	-0.23	0.01	-0.01	0.00
	69	0.00	0.00	-0.27	0.02	-0.00	0.00
	70	0.00	0.00	-0.31	0.03	0.01	0.00
	71	0.00	0.00	-0.32	0.03	0.00	0.00
	72	0.00	0.00	-0.30	0.03	0.01	0.00
	73	0.00	0.00	-0.30	0.03	0.00	0.00
4	1	0.00	0.00	-0.48	0.04	-0.00	0.00
	2	0.00	0.00	-0.42	0.03	-0.00	0.00
	3	0.00	0.00	-0.41	0.03	-0.00	0.00
	4	0.00	0.00	-0.41	0.03	-0.00	0.00
	5	0.00	0.00	-0.41	0.03	-0.00	0.00
	6	0.00	0.00	-0.41	0.03	-0.00	0.00
	7	0.00	0.00	-0.41	0.03	-0.00	0.00
	8	0.00	0.00	-0.41	0.03	-0.00	0.00
	9	0.00	0.00	-0.27	0.01	0.01	0.00
	10	0.00	0.00	-0.31	0.02	0.01	0.00
	11	0.00	0.00	-0.27	0.01	0.01	0.00
	12	0.00	0.00	-0.31	0.02	0.01	0.00
	13	0.00	0.00	-0.22	0.00	0.00	0.00
	14	0.00	0.00	-0.21	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.21	0.00	0.00	0.00
	16	0.00	0.00	-0.21	0.00	-0.00	0.00
	17	0.00	0.00	-0.26	0.01	-0.01	0.00
	18	0.00	0.00	-0.30	0.02	-0.01	0.00
	19	0.00	0.00	-0.25	0.01	-0.01	0.00
	20	0.00	0.00	-0.30	0.02	-0.01	0.00
	21	0.00	0.00	-0.35	0.03	0.00	0.00
	22	0.00	0.00	-0.35	0.03	-0.00	0.00
	23	0.00	0.00	-0.35	0.03	0.00	0.00
	24	0.00	0.00	-0.35	0.03	-0.01	0.00
	25	0.00	0.00	-0.33	0.03	-0.00	0.00
	26	0.00	0.00	-0.29	0.02	-0.00	0.00
	27	0.00	0.00	-0.29	0.02	-0.00	0.00
	28	0.00	0.00	-0.29	0.02	-0.00	0.00
	29	0.00	0.00	-0.29	0.02	-0.00	0.00
	30	0.00	0.00	-0.29	0.02	-0.00	0.00
	31	0.00	0.00	-0.29	0.02	-0.00	0.00
	32	0.00	0.00	-0.29	0.02	-0.00	0.00
	33	0.00	0.00	-0.28	0.02	-0.00	0.00
	34	0.00	0.00	-0.28	0.02	-0.00	0.00
	35	0.00	0.00	-0.28	0.02	-0.00	0.00
	36	0.00	0.00	-0.28	0.02	-0.00	0.00
	37	0.00	0.00	-0.28	0.02	-0.00	0.00
	38	0.00	0.00	-0.28	0.02	-0.00	0.00
	39	0.00	0.00	-0.28	0.02	-0.00	0.00
	40	0.00	0.00	-0.28	0.02	-0.00	0.00
	41	0.00	0.00	-0.28	0.02	-0.00	0.00
	42	0.00	0.00	-0.27	0.01	0.01	0.00
	43	0.00	0.00	-0.30	0.02	0.01	0.00
	44	0.00	0.00	-0.27	0.02	0.01	0.00
	45	0.00	0.00	-0.30	0.02	0.01	0.00
	46	0.00	0.00	-0.22	0.01	0.00	0.00
	47	0.00	0.00	-0.22	0.01	-0.00	0.00
	48	0.00	0.00	-0.22	0.01	0.00	0.00
	49	0.00	0.00	-0.22	0.00	-0.00	0.00
	50	0.00	0.00	-0.26	0.01	-0.01	0.00
	51	0.00	0.00	-0.29	0.02	-0.01	0.00
	52	0.00	0.00	-0.26	0.01	-0.01	0.00
	53	0.00	0.00	-0.29	0.02	-0.01	0.00
	54	0.00	0.00	-0.35	0.03	0.00	0.00
	55	0.00	0.00	-0.34	0.03	-0.00	0.00
	56	0.00	0.00	-0.34	0.03	0.00	0.00
	57	0.00	0.00	-0.34	0.03	-0.00	0.00
	58	0.00	0.00	-0.27	0.01	0.01	0.00
	59	0.00	0.00	-0.31	0.02	0.01	0.00
	60	0.00	0.00	-0.26	0.01	0.01	0.00
	61	0.00	0.00	-0.31	0.02	0.01	0.00
	62	0.00	0.00	-0.21	0.00	0.00	0.00
	63	0.00	0.00	-0.21	0.00	-0.00	0.00
	64	0.00	0.00	-0.21	0.00	0.00	0.00
	65	0.00	0.00	-0.21	0.00	-0.00	0.00
	66	0.00	0.00	-0.25	0.01	-0.01	0.00
	67	0.00	0.00	-0.30	0.02	-0.01	0.00
	68	0.00	0.00	-0.25	0.01	-0.01	0.00
	69	0.00	0.00	-0.30	0.02	-0.01	0.00
	70	0.00	0.00	-0.36	0.03	0.00	0.00
	71	0.00	0.00	-0.35	0.03	-0.00	0.00
	72	0.00	0.00	-0.35	0.03	0.00	0.00
	73	0.00	0.00	-0.35	0.03	-0.01	0.00
5	1	0.00	0.00	-0.42	0.04	-0.01	0.00
	2	0.00	0.00	-0.37	0.03	-0.00	0.00
	3	0.00	0.00	-0.36	0.03	-0.00	0.00
	4	0.00	0.00	-0.36	0.03	-0.00	0.00
	5	0.00	0.00	-0.36	0.03	-0.00	0.00
	6	0.00	0.00	-0.36	0.03	-0.00	0.00
	7	0.00	0.00	-0.36	0.03	-0.00	0.00
	8	0.00	0.00	-0.36	0.03	-0.00	0.00
	9	0.00	0.00	-0.22	0.01	0.01	0.00
	10	0.00	0.00	-0.26	0.02	0.01	0.00
	11	0.00	0.00	-0.23	0.02	0.01	0.00
	12	0.00	0.00	-0.26	0.02	0.01	0.00
	13	0.00	0.00	-0.18	0.01	0.00	0.00
	14	0.00	0.00	-0.18	0.01	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.19	0.01	0.00	0.00
	16	0.00	0.00	-0.20	0.01	-0.00	0.00
	17	0.00	0.00	-0.23	0.01	-0.01	0.00
	18	0.00	0.00	-0.27	0.02	-0.01	0.00
	19	0.00	0.00	-0.24	0.02	-0.01	0.00
	20	0.00	0.00	-0.28	0.02	-0.01	0.00
	21	0.00	0.00	-0.30	0.03	-0.00	0.00
	22	0.00	0.00	-0.31	0.03	-0.01	0.00
	23	0.00	0.00	-0.32	0.03	-0.00	0.00
	24	0.00	0.00	-0.32	0.03	-0.01	0.00
	25	0.00	0.00	-0.29	0.03	-0.00	0.00
	26	0.00	0.00	-0.26	0.02	-0.00	0.00
	27	0.00	0.00	-0.25	0.02	-0.00	0.00
	28	0.00	0.00	-0.25	0.02	-0.00	0.00
	29	0.00	0.00	-0.25	0.02	-0.00	0.00
	30	0.00	0.00	-0.25	0.02	-0.00	0.00
	31	0.00	0.00	-0.25	0.02	-0.00	0.00
	32	0.00	0.00	-0.25	0.02	-0.00	0.00
	33	0.00	0.00	-0.25	0.02	-0.00	0.00
	34	0.00	0.00	-0.25	0.02	-0.00	0.00
	35	0.00	0.00	-0.25	0.02	-0.00	0.00
	36	0.00	0.00	-0.25	0.02	-0.00	0.00
	37	0.00	0.00	-0.25	0.02	-0.00	0.00
	38	0.00	0.00	-0.25	0.02	-0.00	0.00
	39	0.00	0.00	-0.25	0.02	-0.00	0.00
	40	0.00	0.00	-0.25	0.02	-0.00	0.00
	41	0.00	0.00	-0.25	0.02	-0.00	0.00
	42	0.00	0.00	-0.22	0.02	0.01	0.00
	43	0.00	0.00	-0.26	0.02	0.01	0.00
	44	0.00	0.00	-0.23	0.02	0.01	0.00
	45	0.00	0.00	-0.26	0.02	0.00	0.00
	46	0.00	0.00	-0.18	0.01	0.00	0.00
	47	0.00	0.00	-0.19	0.01	-0.00	0.00
	48	0.00	0.00	-0.20	0.01	0.00	0.00
	49	0.00	0.00	-0.20	0.01	-0.00	0.00
	50	0.00	0.00	-0.23	0.01	-0.01	0.00
	51	0.00	0.00	-0.27	0.02	-0.01	0.00
	52	0.00	0.00	-0.24	0.02	-0.01	0.00
	53	0.00	0.00	-0.27	0.02	-0.01	0.00
	54	0.00	0.00	-0.30	0.03	-0.00	0.00
	55	0.00	0.00	-0.30	0.03	-0.01	0.00
	56	0.00	0.00	-0.31	0.03	-0.00	0.00
	57	0.00	0.00	-0.31	0.03	-0.01	0.00
	58	0.00	0.00	-0.22	0.01	0.01	0.00
	59	0.00	0.00	-0.26	0.02	0.01	0.00
	60	0.00	0.00	-0.22	0.02	0.01	0.00
	61	0.00	0.00	-0.26	0.02	0.01	0.00
	62	0.00	0.00	-0.17	0.01	0.00	0.00
	63	0.00	0.00	-0.18	0.00	-0.00	0.00
	64	0.00	0.00	-0.19	0.01	0.00	0.00
	65	0.00	0.00	-0.19	0.01	-0.00	0.00
	66	0.00	0.00	-0.23	0.01	-0.01	0.00
	67	0.00	0.00	-0.27	0.02	-0.01	0.00
	68	0.00	0.00	-0.24	0.02	-0.01	0.00
	69	0.00	0.00	-0.28	0.02	-0.01	0.00
	70	0.00	0.00	-0.30	0.03	-0.00	0.00
	71	0.00	0.00	-0.31	0.03	-0.01	0.00
	72	0.00	0.00	-0.32	0.03	-0.00	0.00
	73	0.00	0.00	-0.32	0.03	-0.01	0.00
6	1	0.00	0.00	-0.35	0.02	-0.00	0.00
	2	0.00	0.00	-0.32	0.02	-0.00	0.00
	3	0.00	0.00	-0.31	0.02	-0.00	0.00
	4	0.00	0.00	-0.31	0.02	-0.00	0.00
	5	0.00	0.00	-0.31	0.02	-0.00	0.00
	6	0.00	0.00	-0.31	0.02	-0.00	0.00
	7	0.00	0.00	-0.31	0.02	-0.00	0.00
	8	0.00	0.00	-0.31	0.02	-0.00	0.00
	9	0.00	0.00	-0.21	0.01	0.00	0.00
	10	0.00	0.00	-0.24	0.02	0.00	0.00
	11	0.00	0.00	-0.22	0.01	0.00	0.00
	12	0.00	0.00	-0.26	0.02	0.00	0.00
	13	0.00	0.00	-0.15	-0.00	-0.00	0.00
	14	0.00	0.00	-0.14	-0.00	-0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.17	0.00	-0.00	0.00
	16	0.00	0.00	-0.16	-0.00	-0.01	0.00
	17	0.00	0.00	-0.18	0.00	-0.01	0.00
	18	0.00	0.00	-0.21	0.01	-0.01	0.00
	19	0.00	0.00	-0.19	0.00	-0.01	0.00
	20	0.00	0.00	-0.22	0.01	-0.01	0.00
	21	0.00	0.00	-0.27	0.02	-0.00	0.00
	22	0.00	0.00	-0.26	0.02	-0.00	0.00
	23	0.00	0.00	-0.29	0.03	0.00	0.00
	24	0.00	0.00	-0.28	0.02	-0.00	0.00
	25	0.00	0.00	-0.25	0.01	-0.00	0.00
	26	0.00	0.00	-0.22	0.01	-0.00	0.00
	27	0.00	0.00	-0.22	0.01	-0.00	0.00
	28	0.00	0.00	-0.22	0.01	-0.00	0.00
	29	0.00	0.00	-0.22	0.01	-0.00	0.00
	30	0.00	0.00	-0.22	0.01	-0.00	0.00
	31	0.00	0.00	-0.22	0.01	-0.00	0.00
	32	0.00	0.00	-0.22	0.01	-0.00	0.00
	33	0.00	0.00	-0.22	0.01	-0.00	0.00
	34	0.00	0.00	-0.22	0.01	-0.00	0.00
	35	0.00	0.00	-0.22	0.01	-0.00	0.00
	36	0.00	0.00	-0.22	0.01	-0.00	0.00
	37	0.00	0.00	-0.22	0.01	-0.00	0.00
	38	0.00	0.00	-0.22	0.01	-0.00	0.00
	39	0.00	0.00	-0.22	0.01	-0.00	0.00
	40	0.00	0.00	-0.22	0.01	-0.00	0.00
	41	0.00	0.00	-0.22	0.01	-0.00	0.00
	42	0.00	0.00	-0.21	0.01	0.00	0.00
	43	0.00	0.00	-0.24	0.02	0.00	0.00
	44	0.00	0.00	-0.22	0.01	0.00	0.00
	45	0.00	0.00	-0.25	0.02	0.00	0.00
	46	0.00	0.00	-0.16	0.00	-0.00	0.00
	47	0.00	0.00	-0.15	-0.00	-0.01	0.00
	48	0.00	0.00	-0.18	0.00	-0.00	0.00
	49	0.00	0.00	-0.17	0.00	-0.01	0.00
	50	0.00	0.00	-0.18	0.00	-0.01	0.00
	51	0.00	0.00	-0.21	0.01	-0.01	0.00
	52	0.00	0.00	-0.19	0.00	-0.01	0.00
	53	0.00	0.00	-0.22	0.01	-0.01	0.00
	54	0.00	0.00	-0.26	0.02	-0.00	0.00
	55	0.00	0.00	-0.25	0.02	-0.00	0.00
	56	0.00	0.00	-0.28	0.02	0.00	0.00
	57	0.00	0.00	-0.27	0.02	-0.00	0.00
	58	0.00	0.00	-0.21	0.01	0.00	0.00
	59	0.00	0.00	-0.24	0.02	0.00	0.00
	60	0.00	0.00	-0.22	0.01	0.00	0.00
	61	0.00	0.00	-0.26	0.02	0.00	0.00
	62	0.00	0.00	-0.15	-0.00	-0.00	0.00
	63	0.00	0.00	-0.14	-0.00	-0.01	0.00
	64	0.00	0.00	-0.17	0.00	-0.00	0.00
	65	0.00	0.00	-0.16	-0.00	-0.01	0.00
	66	0.00	0.00	-0.17	-0.00	-0.01	0.00
	67	0.00	0.00	-0.21	0.01	-0.01	0.00
	68	0.00	0.00	-0.19	0.00	-0.01	0.00
	69	0.00	0.00	-0.22	0.01	-0.01	0.00
	70	0.00	0.00	-0.27	0.02	-0.00	0.00
	71	0.00	0.00	-0.26	0.02	-0.00	0.00
	72	0.00	0.00	-0.29	0.03	0.00	0.00
	73	0.00	0.00	-0.28	0.02	-0.00	0.00
7	1	0.00	0.00	-0.36	0.02	0.01	0.00
	2	0.00	0.00	-0.32	0.01	0.01	0.00
	3	0.00	0.00	-0.32	0.01	0.01	0.00
	4	0.00	0.00	-0.32	0.01	0.01	0.00
	5	0.00	0.00	-0.32	0.01	0.01	0.00
	6	0.00	0.00	-0.32	0.01	0.01	0.00
	7	0.00	0.00	-0.32	0.01	0.01	0.00
	8	0.00	0.00	-0.32	0.01	0.01	0.00
	9	0.00	0.00	-0.25	0.01	0.02	0.00
	10	0.00	0.00	-0.29	0.02	0.02	0.00
	11	0.00	0.00	-0.26	0.01	0.02	0.00
	12	0.00	0.00	-0.30	0.02	0.02	0.00
	13	0.00	0.00	-0.16	-0.00	0.01	0.00
	14	0.00	0.00	-0.12	-0.01	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.18	0.00	0.01	0.00
	16	0.00	0.00	-0.14	-0.00	-0.00	0.00
	17	0.00	0.00	-0.13	-0.00	-0.01	0.00
	18	0.00	0.00	-0.17	0.01	-0.01	0.00
	19	0.00	0.00	-0.15	0.00	-0.01	0.00
	20	0.00	0.00	-0.19	0.01	-0.01	0.00
	21	0.00	0.00	-0.29	0.02	0.01	0.00
	22	0.00	0.00	-0.26	0.02	0.00	0.00
	23	0.00	0.00	-0.31	0.03	0.01	0.00
	24	0.00	0.00	-0.28	0.02	0.00	0.00
	25	0.00	0.00	-0.25	0.01	0.01	0.00
	26	0.00	0.00	-0.23	0.01	0.00	0.00
	27	0.00	0.00	-0.22	0.01	0.00	0.00
	28	0.00	0.00	-0.22	0.01	0.00	0.00
	29	0.00	0.00	-0.22	0.01	0.00	0.00
	30	0.00	0.00	-0.22	0.01	0.00	0.00
	31	0.00	0.00	-0.22	0.01	0.00	0.00
	32	0.00	0.00	-0.22	0.01	0.00	0.00
	33	0.00	0.00	-0.22	0.01	0.00	0.00
	34	0.00	0.00	-0.22	0.01	0.00	0.00
	35	0.00	0.00	-0.22	0.01	0.00	0.00
	36	0.00	0.00	-0.22	0.01	0.00	0.00
	37	0.00	0.00	-0.22	0.01	0.00	0.00
	38	0.00	0.00	-0.22	0.01	0.00	0.00
	39	0.00	0.00	-0.22	0.01	0.00	0.00
	40	0.00	0.00	-0.22	0.01	0.00	0.00
	41	0.00	0.00	-0.22	0.01	0.00	0.00
	42	0.00	0.00	-0.25	0.01	0.02	0.00
	43	0.00	0.00	-0.28	0.02	0.02	0.00
	44	0.00	0.00	-0.26	0.01	0.02	0.00
	45	0.00	0.00	-0.30	0.02	0.02	0.00
	46	0.00	0.00	-0.16	-0.00	0.01	0.00
	47	0.00	0.00	-0.13	-0.00	-0.00	0.00
	48	0.00	0.00	-0.18	0.00	0.01	0.00
	49	0.00	0.00	-0.15	-0.00	-0.00	0.00
	50	0.00	0.00	-0.14	-0.00	-0.01	0.00
	51	0.00	0.00	-0.18	0.01	-0.01	0.00
	52	0.00	0.00	-0.15	0.00	-0.01	0.00
	53	0.00	0.00	-0.19	0.01	-0.01	0.00
	54	0.00	0.00	-0.29	0.02	0.01	0.00
	55	0.00	0.00	-0.25	0.02	0.00	0.00
	56	0.00	0.00	-0.31	0.02	0.01	0.00
	57	0.00	0.00	-0.27	0.02	0.00	0.00
	58	0.00	0.00	-0.25	0.01	0.02	0.00
	59	0.00	0.00	-0.30	0.02	0.02	0.00
	60	0.00	0.00	-0.27	0.01	0.02	0.00
	61	0.00	0.00	-0.31	0.02	0.02	0.00
	62	0.00	0.00	-0.16	-0.00	0.01	0.00
	63	0.00	0.00	-0.12	-0.01	-0.00	0.00
	64	0.00	0.00	-0.18	0.00	0.01	0.00
	65	0.00	0.00	-0.14	-0.00	-0.00	0.00
	66	0.00	0.00	-0.13	-0.00	-0.01	0.00
	67	0.00	0.00	-0.17	0.01	-0.01	0.00
	68	0.00	0.00	-0.14	0.00	-0.01	0.00
	69	0.00	0.00	-0.18	0.01	-0.01	0.00
	70	0.00	0.00	-0.30	0.02	0.01	0.00
	71	0.00	0.00	-0.26	0.02	0.00	0.00
	72	0.00	0.00	-0.32	0.03	0.01	0.00
	73	0.00	0.00	-0.28	0.02	0.00	0.00
8	1	0.00	0.00	-0.27	0.01	-0.02	0.00
	2	0.00	0.00	-0.25	0.00	-0.01	0.00
	3	0.00	0.00	-0.25	0.00	-0.01	0.00
	4	0.00	0.00	-0.25	0.00	-0.01	0.00
	5	0.00	0.00	-0.25	0.00	-0.01	0.00
	6	0.00	0.00	-0.25	0.00	-0.01	0.00
	7	0.00	0.00	-0.25	0.00	-0.01	0.00
	8	0.00	0.00	-0.25	0.00	-0.01	0.00
	9	0.00	0.00	-0.15	0.00	-0.00	0.00
	10	0.00	0.00	-0.15	0.01	-0.00	0.00
	11	0.00	0.00	-0.15	-0.00	-0.00	0.00
	12	0.00	0.00	-0.15	0.00	-0.00	0.00
	13	0.00	0.00	-0.17	-0.00	-0.01	0.00
	14	0.00	0.00	-0.18	-0.00	-0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.17	-0.01	-0.01	0.00
	16	0.00	0.00	-0.18	-0.01	-0.01	0.00
	17	0.00	0.00	-0.19	0.00	-0.01	0.00
	18	0.00	0.00	-0.19	0.01	-0.01	0.00
	19	0.00	0.00	-0.20	-0.00	-0.01	0.00
	20	0.00	0.00	-0.19	0.01	-0.01	0.00
	21	0.00	0.00	-0.16	0.02	-0.01	0.00
	22	0.00	0.00	-0.18	0.02	-0.01	0.00
	23	0.00	0.00	-0.16	0.01	-0.01	0.00
	24	0.00	0.00	-0.18	0.01	-0.01	0.00
	25	0.00	0.00	-0.19	0.00	-0.01	0.00
	26	0.00	0.00	-0.18	0.00	-0.01	0.00
	27	0.00	0.00	-0.17	0.00	-0.01	0.00
	28	0.00	0.00	-0.17	0.00	-0.01	0.00
	29	0.00	0.00	-0.17	0.00	-0.01	0.00
	30	0.00	0.00	-0.17	0.00	-0.01	0.00
	31	0.00	0.00	-0.17	0.00	-0.01	0.00
	32	0.00	0.00	-0.17	0.00	-0.01	0.00
	33	0.00	0.00	-0.17	0.00	-0.01	0.00
	34	0.00	0.00	-0.17	0.00	-0.01	0.00
	35	0.00	0.00	-0.17	0.00	-0.01	0.00
	36	0.00	0.00	-0.17	0.00	-0.01	0.00
	37	0.00	0.00	-0.17	0.00	-0.01	0.00
	38	0.00	0.00	-0.17	0.00	-0.01	0.00
	39	0.00	0.00	-0.17	0.00	-0.01	0.00
	40	0.00	0.00	-0.17	0.00	-0.01	0.00
	41	0.00	0.00	-0.17	0.00	-0.01	0.00
	42	0.00	0.00	-0.15	0.00	-0.00	0.00
	43	0.00	0.00	-0.15	0.01	-0.00	0.00
	44	0.00	0.00	-0.15	-0.00	-0.00	0.00
	45	0.00	0.00	-0.15	0.00	-0.00	0.00
	46	0.00	0.00	-0.17	-0.00	-0.01	0.00
	47	0.00	0.00	-0.18	-0.00	-0.01	0.00
	48	0.00	0.00	-0.17	-0.01	-0.01	0.00
	49	0.00	0.00	-0.18	-0.01	-0.01	0.00
	50	0.00	0.00	-0.19	0.00	-0.01	0.00
	51	0.00	0.00	-0.19	0.01	-0.01	0.00
	52	0.00	0.00	-0.19	-0.00	-0.01	0.00
	53	0.00	0.00	-0.19	0.01	-0.01	0.00
	54	0.00	0.00	-0.16	0.01	-0.01	0.00
	55	0.00	0.00	-0.18	0.01	-0.01	0.00
	56	0.00	0.00	-0.16	0.01	-0.01	0.00
	57	0.00	0.00	-0.18	0.01	-0.01	0.00
	58	0.00	0.00	-0.15	0.00	-0.00	0.00
	59	0.00	0.00	-0.15	0.01	-0.00	0.00
	60	0.00	0.00	-0.15	-0.00	-0.00	0.00
	61	0.00	0.00	-0.15	0.00	-0.00	0.00
	62	0.00	0.00	-0.17	-0.01	-0.01	0.00
	63	0.00	0.00	-0.18	-0.00	-0.01	0.00
	64	0.00	0.00	-0.17	-0.01	-0.01	0.00
	65	0.00	0.00	-0.18	-0.01	-0.01	0.00
	66	0.00	0.00	-0.20	0.00	-0.02	0.00
	67	0.00	0.00	-0.19	0.01	-0.02	0.00
	68	0.00	0.00	-0.20	-0.00	-0.02	0.00
	69	0.00	0.00	-0.20	0.01	-0.02	0.00
	70	0.00	0.00	-0.16	0.02	-0.01	0.00
	71	0.00	0.00	-0.18	0.02	-0.01	0.00
	72	0.00	0.00	-0.16	0.01	-0.01	0.00
	73	0.00	0.00	-0.18	0.01	-0.01	0.00
9	1	0.00	0.00	-0.24	0.01	0.00	0.00
	2	0.00	0.00	-0.23	0.01	0.00	0.00
	3	0.00	0.00	-0.23	0.01	0.00	0.00
	4	0.00	0.00	-0.23	0.01	0.00	0.00
	5	0.00	0.00	-0.23	0.01	0.00	0.00
	6	0.00	0.00	-0.23	0.01	0.00	0.00
	7	0.00	0.00	-0.23	0.01	0.00	0.00
	8	0.00	0.00	-0.23	0.01	0.00	0.00
	9	0.00	0.00	-0.16	0.01	0.01	0.00
	10	0.00	0.00	-0.16	0.01	0.01	0.00
	11	0.00	0.00	-0.16	0.00	0.00	0.00
	12	0.00	0.00	-0.16	0.01	0.01	0.00
	13	0.00	0.00	-0.16	-0.00	0.00	0.00
	14	0.00	0.00	-0.16	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.16	-0.00	0.00	0.00
	16	0.00	0.00	-0.16	-0.00	0.00	0.00
	17	0.00	0.00	-0.16	0.01	-0.00	0.00
	18	0.00	0.00	-0.16	0.01	0.00	0.00
	19	0.00	0.00	-0.16	0.01	-0.00	0.00
	20	0.00	0.00	-0.16	0.01	-0.00	0.00
	21	0.00	0.00	-0.16	0.02	0.00	0.00
	22	0.00	0.00	-0.16	0.02	0.00	0.00
	23	0.00	0.00	-0.16	0.02	0.00	0.00
	24	0.00	0.00	-0.16	0.02	0.00	0.00
	25	0.00	0.00	-0.17	0.01	0.00	0.00
	26	0.00	0.00	-0.16	0.01	0.00	0.00
	27	0.00	0.00	-0.16	0.01	0.00	0.00
	28	0.00	0.00	-0.16	0.01	0.00	0.00
	29	0.00	0.00	-0.16	0.01	0.00	0.00
	30	0.00	0.00	-0.16	0.01	0.00	0.00
	31	0.00	0.00	-0.16	0.01	0.00	0.00
	32	0.00	0.00	-0.16	0.01	0.00	0.00
	33	0.00	0.00	-0.16	0.01	0.00	0.00
	34	0.00	0.00	-0.16	0.01	0.00	0.00
	35	0.00	0.00	-0.16	0.01	0.00	0.00
	36	0.00	0.00	-0.16	0.01	0.00	0.00
	37	0.00	0.00	-0.16	0.01	0.00	0.00
	38	0.00	0.00	-0.16	0.01	0.00	0.00
	39	0.00	0.00	-0.16	0.01	0.00	0.00
	40	0.00	0.00	-0.16	0.01	0.00	0.00
	41	0.00	0.00	-0.16	0.01	0.00	0.00
	42	0.00	0.00	-0.16	0.01	0.00	0.00
	43	0.00	0.00	-0.16	0.01	0.01	0.00
	44	0.00	0.00	-0.16	0.00	0.00	0.00
	45	0.00	0.00	-0.16	0.01	0.01	0.00
	46	0.00	0.00	-0.16	0.00	0.00	0.00
	47	0.00	0.00	-0.16	0.00	0.00	0.00
	48	0.00	0.00	-0.16	-0.00	0.00	0.00
	49	0.00	0.00	-0.16	-0.00	0.00	0.00
	50	0.00	0.00	-0.16	0.01	0.00	0.00
	51	0.00	0.00	-0.16	0.01	0.00	0.00
	52	0.00	0.00	-0.16	0.01	-0.00	0.00
	53	0.00	0.00	-0.16	0.01	0.00	0.00
	54	0.00	0.00	-0.16	0.02	0.00	0.00
	55	0.00	0.00	-0.16	0.02	0.00	0.00
	56	0.00	0.00	-0.16	0.01	0.00	0.00
	57	0.00	0.00	-0.16	0.02	0.00	0.00
	58	0.00	0.00	-0.16	0.01	0.01	0.00
	59	0.00	0.00	-0.16	0.01	0.01	0.00
	60	0.00	0.00	-0.16	0.00	0.01	0.00
	61	0.00	0.00	-0.16	0.01	0.01	0.00
	62	0.00	0.00	-0.16	-0.00	0.00	0.00
	63	0.00	0.00	-0.16	0.00	0.00	0.00
	64	0.00	0.00	-0.16	-0.00	0.00	0.00
	65	0.00	0.00	-0.16	-0.00	0.00	0.00
	66	0.00	0.00	-0.16	0.01	-0.00	0.00
	67	0.00	0.00	-0.16	0.01	-0.00	0.00
	68	0.00	0.00	-0.16	0.01	-0.00	0.00
	69	0.00	0.00	-0.16	0.01	-0.00	0.00
	70	0.00	0.00	-0.16	0.02	0.00	0.00
	71	0.00	0.00	-0.16	0.02	0.00	0.00
	72	0.00	0.00	-0.16	0.02	0.00	0.00
	73	0.00	0.00	-0.16	0.02	0.00	0.00
10	1	0.00	0.00	-0.27	0.02	0.00	0.00
	2	0.00	0.00	-0.26	0.01	0.00	0.00
	3	0.00	0.00	-0.26	0.01	0.00	0.00
	4	0.00	0.00	-0.26	0.01	0.00	0.00
	5	0.00	0.00	-0.26	0.01	0.00	0.00
	6	0.00	0.00	-0.26	0.01	0.00	0.00
	7	0.00	0.00	-0.26	0.01	0.00	0.00
	8	0.00	0.00	-0.26	0.01	0.00	0.00
	9	0.00	0.00	-0.18	0.01	0.00	0.00
	10	0.00	0.00	-0.18	0.01	0.00	0.00
	11	0.00	0.00	-0.18	0.01	0.00	0.00
	12	0.00	0.00	-0.18	0.01	0.00	0.00
	13	0.00	0.00	-0.17	-0.00	0.00	0.00
	14	0.00	0.00	-0.17	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.17	-0.00	0.00	0.00
	16	0.00	0.00	-0.17	-0.00	0.00	0.00
	17	0.00	0.00	-0.17	0.01	-0.00	0.00
	18	0.00	0.00	-0.18	0.01	-0.00	0.00
	19	0.00	0.00	-0.17	0.01	-0.00	0.00
	20	0.00	0.00	-0.18	0.01	-0.00	0.00
	21	0.00	0.00	-0.19	0.02	0.00	0.00
	22	0.00	0.00	-0.19	0.02	0.00	0.00
	23	0.00	0.00	-0.19	0.02	0.00	0.00
	24	0.00	0.00	-0.18	0.02	0.00	0.00
	25	0.00	0.00	-0.19	0.01	0.00	0.00
	26	0.00	0.00	-0.19	0.01	0.00	0.00
	27	0.00	0.00	-0.18	0.01	0.00	0.00
	28	0.00	0.00	-0.18	0.01	0.00	0.00
	29	0.00	0.00	-0.18	0.01	0.00	0.00
	30	0.00	0.00	-0.18	0.01	0.00	0.00
	31	0.00	0.00	-0.18	0.01	0.00	0.00
	32	0.00	0.00	-0.18	0.01	0.00	0.00
	33	0.00	0.00	-0.18	0.01	0.00	0.00
	34	0.00	0.00	-0.18	0.01	0.00	0.00
	35	0.00	0.00	-0.18	0.01	0.00	0.00
	36	0.00	0.00	-0.18	0.01	0.00	0.00
	37	0.00	0.00	-0.18	0.01	0.00	0.00
	38	0.00	0.00	-0.18	0.01	0.00	0.00
	39	0.00	0.00	-0.18	0.01	0.00	0.00
	40	0.00	0.00	-0.18	0.01	0.00	0.00
	41	0.00	0.00	-0.18	0.01	0.00	0.00
	42	0.00	0.00	-0.18	0.01	0.00	0.00
	43	0.00	0.00	-0.18	0.01	0.00	0.00
	44	0.00	0.00	-0.18	0.01	0.00	0.00
	45	0.00	0.00	-0.18	0.01	0.00	0.00
	46	0.00	0.00	-0.17	0.00	0.00	0.00
	47	0.00	0.00	-0.17	-0.00	0.00	0.00
	48	0.00	0.00	-0.17	-0.00	0.00	0.00
	49	0.00	0.00	-0.17	-0.00	0.00	0.00
	50	0.00	0.00	-0.18	0.01	-0.00	0.00
	51	0.00	0.00	-0.18	0.01	0.00	0.00
	52	0.00	0.00	-0.17	0.01	-0.00	0.00
	53	0.00	0.00	-0.18	0.01	0.00	0.00
	54	0.00	0.00	-0.19	0.02	0.00	0.00
	55	0.00	0.00	-0.18	0.02	0.00	0.00
	56	0.00	0.00	-0.19	0.02	0.00	0.00
	57	0.00	0.00	-0.18	0.02	0.00	0.00
	58	0.00	0.00	-0.18	0.01	0.00	0.00
	59	0.00	0.00	-0.18	0.01	0.00	0.00
	60	0.00	0.00	-0.18	0.01	0.00	0.00
	61	0.00	0.00	-0.18	0.01	0.00	0.00
	62	0.00	0.00	-0.17	-0.00	0.00	0.00
	63	0.00	0.00	-0.17	-0.00	0.00	0.00
	64	0.00	0.00	-0.17	-0.00	0.00	0.00
	65	0.00	0.00	-0.17	-0.00	0.00	0.00
	66	0.00	0.00	-0.17	0.01	-0.00	0.00
	67	0.00	0.00	-0.18	0.01	-0.00	0.00
	68	0.00	0.00	-0.17	0.01	-0.00	0.00
	69	0.00	0.00	-0.18	0.01	-0.00	0.00
	70	0.00	0.00	-0.19	0.02	0.00	0.00
	71	0.00	0.00	-0.19	0.02	0.00	0.00
	72	0.00	0.00	-0.19	0.02	0.00	0.00
	73	0.00	0.00	-0.18	0.02	0.00	0.00
11	1	0.00	0.00	-0.25	0.01	-0.01	0.00
	2	0.00	0.00	-0.24	0.01	-0.01	0.00
	3	0.00	0.00	-0.23	0.01	-0.01	0.00
	4	0.00	0.00	-0.23	0.01	-0.01	0.00
	5	0.00	0.00	-0.23	0.01	-0.01	0.00
	6	0.00	0.00	-0.23	0.01	-0.01	0.00
	7	0.00	0.00	-0.23	0.01	-0.01	0.00
	8	0.00	0.00	-0.23	0.01	-0.01	0.00
	9	0.00	0.00	-0.16	0.00	-0.01	0.00
	10	0.00	0.00	-0.17	0.01	-0.01	0.00
	11	0.00	0.00	-0.16	0.01	-0.01	0.00
	12	0.00	0.00	-0.17	0.01	-0.01	0.00
	13	0.00	0.00	-0.16	-0.00	-0.00	0.00
	14	0.00	0.00	-0.16	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.16	-0.00	-0.00	0.00
	16	0.00	0.00	-0.16	-0.00	-0.00	0.00
	17	0.00	0.00	-0.16	0.00	-0.00	0.00
	18	0.00	0.00	-0.17	0.01	-0.00	0.00
	19	0.00	0.00	-0.16	0.01	-0.00	0.00
	20	0.00	0.00	-0.17	0.01	-0.00	0.00
	21	0.00	0.00	-0.17	0.02	-0.01	0.00
	22	0.00	0.00	-0.17	0.02	-0.00	0.00
	23	0.00	0.00	-0.17	0.02	-0.01	0.00
	24	0.00	0.00	-0.17	0.02	-0.00	0.00
	25	0.00	0.00	-0.18	0.01	-0.00	0.00
	26	0.00	0.00	-0.17	0.01	-0.00	0.00
	27	0.00	0.00	-0.17	0.01	-0.00	0.00
	28	0.00	0.00	-0.17	0.01	-0.00	0.00
	29	0.00	0.00	-0.17	0.01	-0.00	0.00
	30	0.00	0.00	-0.17	0.01	-0.00	0.00
	31	0.00	0.00	-0.17	0.01	-0.00	0.00
	32	0.00	0.00	-0.17	0.01	-0.00	0.00
	33	0.00	0.00	-0.16	0.01	-0.00	0.00
	34	0.00	0.00	-0.17	0.01	-0.00	0.00
	35	0.00	0.00	-0.16	0.01	-0.00	0.00
	36	0.00	0.00	-0.16	0.01	-0.00	0.00
	37	0.00	0.00	-0.16	0.01	-0.00	0.00
	38	0.00	0.00	-0.16	0.01	-0.00	0.00
	39	0.00	0.00	-0.16	0.01	-0.00	0.00
	40	0.00	0.00	-0.16	0.01	-0.00	0.00
	41	0.00	0.00	-0.16	0.01	-0.00	0.00
	42	0.00	0.00	-0.16	0.00	-0.01	0.00
	43	0.00	0.00	-0.17	0.01	-0.01	0.00
	44	0.00	0.00	-0.16	0.01	-0.01	0.00
	45	0.00	0.00	-0.17	0.01	-0.01	0.00
	46	0.00	0.00	-0.16	-0.00	-0.00	0.00
	47	0.00	0.00	-0.16	-0.00	-0.00	0.00
	48	0.00	0.00	-0.16	-0.00	-0.00	0.00
	49	0.00	0.00	-0.16	-0.00	-0.00	0.00
	50	0.00	0.00	-0.16	0.00	-0.00	0.00
	51	0.00	0.00	-0.17	0.01	-0.00	0.00
	52	0.00	0.00	-0.16	0.01	-0.00	0.00
	53	0.00	0.00	-0.17	0.01	-0.00	0.00
	54	0.00	0.00	-0.17	0.02	-0.01	0.00
	55	0.00	0.00	-0.17	0.02	-0.00	0.00
	56	0.00	0.00	-0.17	0.02	-0.01	0.00
	57	0.00	0.00	-0.17	0.02	-0.00	0.00
	58	0.00	0.00	-0.16	0.00	-0.01	0.00
	59	0.00	0.00	-0.17	0.01	-0.01	0.00
	60	0.00	0.00	-0.16	0.01	-0.01	0.00
	61	0.00	0.00	-0.17	0.01	-0.01	0.00
	62	0.00	0.00	-0.16	-0.00	-0.00	0.00
	63	0.00	0.00	-0.16	-0.00	-0.00	0.00
	64	0.00	0.00	-0.16	-0.00	-0.00	0.00
	65	0.00	0.00	-0.16	-0.00	-0.00	0.00
	66	0.00	0.00	-0.16	0.00	-0.00	0.00
	67	0.00	0.00	-0.17	0.01	-0.00	0.00
	68	0.00	0.00	-0.16	0.01	-0.00	0.00
	69	0.00	0.00	-0.17	0.01	-0.00	0.00
	70	0.00	0.00	-0.17	0.02	-0.01	0.00
	71	0.00	0.00	-0.17	0.02	-0.00	0.00
	72	0.00	0.00	-0.17	0.02	-0.01	0.00
	73	0.00	0.00	-0.17	0.02	-0.00	0.00
12	1	0.00	0.00	-0.23	0.01	-0.00	0.00
	2	0.00	0.00	-0.22	0.01	-0.00	0.00
	3	0.00	0.00	-0.22	0.01	-0.00	0.00
	4	0.00	0.00	-0.22	0.01	-0.00	0.00
	5	0.00	0.00	-0.22	0.01	-0.00	0.00
	6	0.00	0.00	-0.22	0.01	-0.00	0.00
	7	0.00	0.00	-0.22	0.01	-0.00	0.00
	8	0.00	0.00	-0.22	0.01	-0.00	0.00
	9	0.00	0.00	-0.15	0.00	0.00	0.00
	10	0.00	0.00	-0.15	0.01	0.00	0.00
	11	0.00	0.00	-0.15	0.01	0.00	0.00
	12	0.00	0.00	-0.15	0.01	0.00	0.00
	13	0.00	0.00	-0.15	-0.00	-0.00	0.00
	14	0.00	0.00	-0.15	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.15	-0.00	-0.00	0.00
	16	0.00	0.00	-0.15	-0.00	-0.00	0.00
	17	0.00	0.00	-0.16	0.00	-0.00	0.00
	18	0.00	0.00	-0.16	0.01	-0.00	0.00
	19	0.00	0.00	-0.16	0.01	-0.00	0.00
	20	0.00	0.00	-0.16	0.01	-0.00	0.00
	21	0.00	0.00	-0.16	0.02	-0.00	0.00
	22	0.00	0.00	-0.16	0.02	-0.00	0.00
	23	0.00	0.00	-0.16	0.02	-0.00	0.00
	24	0.00	0.00	-0.16	0.02	-0.00	0.00
	25	0.00	0.00	-0.16	0.01	-0.00	0.00
	26	0.00	0.00	-0.16	0.01	-0.00	0.00
	27	0.00	0.00	-0.16	0.01	-0.00	0.00
	28	0.00	0.00	-0.16	0.01	-0.00	0.00
	29	0.00	0.00	-0.16	0.01	-0.00	0.00
	30	0.00	0.00	-0.16	0.01	-0.00	0.00
	31	0.00	0.00	-0.16	0.01	-0.00	0.00
	32	0.00	0.00	-0.16	0.01	-0.00	0.00
	33	0.00	0.00	-0.15	0.01	-0.00	0.00
	34	0.00	0.00	-0.16	0.01	-0.00	0.00
	35	0.00	0.00	-0.15	0.01	-0.00	0.00
	36	0.00	0.00	-0.15	0.01	-0.00	0.00
	37	0.00	0.00	-0.15	0.01	-0.00	0.00
	38	0.00	0.00	-0.15	0.01	-0.00	0.00
	39	0.00	0.00	-0.15	0.01	-0.00	0.00
	40	0.00	0.00	-0.15	0.01	-0.00	0.00
	41	0.00	0.00	-0.15	0.01	-0.00	0.00
	42	0.00	0.00	-0.15	0.00	0.00	0.00
	43	0.00	0.00	-0.15	0.01	0.00	0.00
	44	0.00	0.00	-0.15	0.01	0.00	0.00
	45	0.00	0.00	-0.15	0.01	0.00	0.00
	46	0.00	0.00	-0.15	-0.00	-0.00	0.00
	47	0.00	0.00	-0.15	-0.00	-0.00	0.00
	48	0.00	0.00	-0.15	-0.00	-0.00	0.00
	49	0.00	0.00	-0.15	-0.00	-0.00	0.00
	50	0.00	0.00	-0.16	0.00	-0.00	0.00
	51	0.00	0.00	-0.16	0.01	-0.00	0.00
	52	0.00	0.00	-0.16	0.01	-0.00	0.00
	53	0.00	0.00	-0.16	0.01	-0.00	0.00
	54	0.00	0.00	-0.16	0.02	-0.00	0.00
	55	0.00	0.00	-0.16	0.02	-0.00	0.00
	56	0.00	0.00	-0.16	0.02	-0.00	0.00
	57	0.00	0.00	-0.16	0.02	-0.00	0.00
	58	0.00	0.00	-0.15	0.00	0.00	0.00
	59	0.00	0.00	-0.15	0.01	0.00	0.00
	60	0.00	0.00	-0.15	0.01	0.00	0.00
	61	0.00	0.00	-0.15	0.01	0.00	0.00
	62	0.00	0.00	-0.15	-0.01	-0.00	0.00
	63	0.00	0.00	-0.15	-0.01	-0.00	0.00
	64	0.00	0.00	-0.15	-0.00	-0.00	0.00
	65	0.00	0.00	-0.15	-0.00	-0.00	0.00
	66	0.00	0.00	-0.16	0.00	-0.00	0.00
	67	0.00	0.00	-0.16	0.01	-0.00	0.00
	68	0.00	0.00	-0.16	0.00	-0.00	0.00
	69	0.00	0.00	-0.16	0.01	-0.00	0.00
	70	0.00	0.00	-0.16	0.02	-0.00	0.00
	71	0.00	0.00	-0.16	0.02	-0.00	0.00
	72	0.00	0.00	-0.16	0.02	-0.00	0.00
	73	0.00	0.00	-0.16	0.02	-0.00	0.00
13	1	0.00	0.00	-0.28	0.01	0.02	0.00
	2	0.00	0.00	-0.25	0.01	0.01	0.00
	3	0.00	0.00	-0.25	0.01	0.01	0.00
	4	0.00	0.00	-0.25	0.01	0.01	0.00
	5	0.00	0.00	-0.25	0.01	0.01	0.00
	6	0.00	0.00	-0.25	0.01	0.01	0.00
	7	0.00	0.00	-0.25	0.01	0.01	0.00
	8	0.00	0.00	-0.25	0.01	0.01	0.00
	9	0.00	0.00	-0.20	0.00	0.02	0.00
	10	0.00	0.00	-0.20	0.01	0.02	0.00
	11	0.00	0.00	-0.20	0.00	0.02	0.00
	12	0.00	0.00	-0.20	0.01	0.02	0.00
	13	0.00	0.00	-0.17	-0.01	0.01	0.00
	14	0.00	0.00	-0.16	-0.01	0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.18	-0.00	0.01	0.00
	16	0.00	0.00	-0.16	-0.01	0.01	0.00
	17	0.00	0.00	-0.14	-0.00	0.00	0.00
	18	0.00	0.00	-0.15	0.00	0.00	0.00
	19	0.00	0.00	-0.15	-0.00	0.00	0.00
	20	0.00	0.00	-0.15	0.01	0.00	0.00
	21	0.00	0.00	-0.19	0.01	0.01	0.00
	22	0.00	0.00	-0.17	0.01	0.01	0.00
	23	0.00	0.00	-0.19	0.02	0.01	0.00
	24	0.00	0.00	-0.18	0.02	0.01	0.00
	25	0.00	0.00	-0.19	0.01	0.01	0.00
	26	0.00	0.00	-0.18	0.00	0.01	0.00
	27	0.00	0.00	-0.18	0.00	0.01	0.00
	28	0.00	0.00	-0.18	0.00	0.01	0.00
	29	0.00	0.00	-0.18	0.00	0.01	0.00
	30	0.00	0.00	-0.18	0.00	0.01	0.00
	31	0.00	0.00	-0.18	0.00	0.01	0.00
	32	0.00	0.00	-0.18	0.00	0.01	0.00
	33	0.00	0.00	-0.17	0.00	0.01	0.00
	34	0.00	0.00	-0.18	0.00	0.01	0.00
	35	0.00	0.00	-0.17	0.00	0.01	0.00
	36	0.00	0.00	-0.17	0.00	0.01	0.00
	37	0.00	0.00	-0.17	0.00	0.01	0.00
	38	0.00	0.00	-0.17	0.00	0.01	0.00
	39	0.00	0.00	-0.17	0.00	0.01	0.00
	40	0.00	0.00	-0.17	0.00	0.01	0.00
	41	0.00	0.00	-0.17	0.00	0.01	0.00
	42	0.00	0.00	-0.20	0.00	0.02	0.00
	43	0.00	0.00	-0.20	0.01	0.02	0.00
	44	0.00	0.00	-0.20	0.00	0.02	0.00
	45	0.00	0.00	-0.20	0.01	0.02	0.00
	46	0.00	0.00	-0.17	-0.01	0.01	0.00
	47	0.00	0.00	-0.16	-0.01	0.01	0.00
	48	0.00	0.00	-0.18	-0.00	0.01	0.00
	49	0.00	0.00	-0.16	-0.00	0.01	0.00
	50	0.00	0.00	-0.15	-0.00	0.00	0.00
	51	0.00	0.00	-0.15	0.00	0.00	0.00
	52	0.00	0.00	-0.15	0.00	0.00	0.00
	53	0.00	0.00	-0.15	0.01	0.00	0.00
	54	0.00	0.00	-0.19	0.01	0.01	0.00
	55	0.00	0.00	-0.17	0.01	0.01	0.00
	56	0.00	0.00	-0.19	0.02	0.01	0.00
	57	0.00	0.00	-0.18	0.02	0.01	0.00
	58	0.00	0.00	-0.20	0.00	0.02	0.00
	59	0.00	0.00	-0.20	0.01	0.02	0.00
	60	0.00	0.00	-0.20	0.00	0.02	0.00
	61	0.00	0.00	-0.21	0.01	0.02	0.00
	62	0.00	0.00	-0.17	-0.01	0.01	0.00
	63	0.00	0.00	-0.16	-0.01	0.01	0.00
	64	0.00	0.00	-0.18	-0.00	0.01	0.00
	65	0.00	0.00	-0.16	-0.01	0.01	0.00
	66	0.00	0.00	-0.14	-0.00	0.00	0.00
	67	0.00	0.00	-0.15	0.00	0.00	0.00
	68	0.00	0.00	-0.14	-0.00	-0.00	0.00
	69	0.00	0.00	-0.15	0.01	0.00	0.00
	70	0.00	0.00	-0.19	0.01	0.01	0.00
	71	0.00	0.00	-0.17	0.01	0.01	0.00
	72	0.00	0.00	-0.19	0.02	0.01	0.00
	73	0.00	0.00	-0.18	0.02	0.01	0.00
14	1	0.00	0.00	-0.31	-0.01	-0.01	0.00
	2	0.00	0.00	-0.28	-0.01	-0.01	0.00
	3	0.00	0.00	-0.27	-0.01	-0.01	0.00
	4	0.00	0.00	-0.27	-0.01	-0.01	0.00
	5	0.00	0.00	-0.27	-0.01	-0.01	0.00
	6	0.00	0.00	-0.27	-0.01	-0.01	0.00
	7	0.00	0.00	-0.27	-0.01	-0.01	0.00
	8	0.00	0.00	-0.27	-0.01	-0.01	0.00
	9	0.00	0.00	-0.17	-0.01	-0.00	0.00
	10	0.00	0.00	-0.13	0.00	0.00	0.00
	11	0.00	0.00	-0.19	-0.01	-0.01	0.00
	12	0.00	0.00	-0.15	-0.00	-0.00	0.00
	13	0.00	0.00	-0.23	-0.02	-0.01	0.00
	14	0.00	0.00	-0.25	-0.02	-0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.26	-0.02	-0.01	0.00
	16	0.00	0.00	-0.28	-0.03	-0.02	0.00
	17	0.00	0.00	-0.23	-0.01	-0.01	0.00
	18	0.00	0.00	-0.19	-0.00	-0.01	0.00
	19	0.00	0.00	-0.25	-0.02	-0.02	0.00
	20	0.00	0.00	-0.21	-0.01	-0.01	0.00
	21	0.00	0.00	-0.10	0.01	0.00	0.00
	22	0.00	0.00	-0.12	0.01	-0.00	0.00
	23	0.00	0.00	-0.13	0.01	-0.00	0.00
	24	0.00	0.00	-0.15	0.00	-0.00	0.00
	25	0.00	0.00	-0.21	-0.01	-0.01	0.00
	26	0.00	0.00	-0.20	-0.01	-0.01	0.00
	27	0.00	0.00	-0.19	-0.01	-0.01	0.00
	28	0.00	0.00	-0.19	-0.01	-0.01	0.00
	29	0.00	0.00	-0.19	-0.01	-0.01	0.00
	30	0.00	0.00	-0.19	-0.01	-0.01	0.00
	31	0.00	0.00	-0.19	-0.01	-0.01	0.00
	32	0.00	0.00	-0.19	-0.01	-0.01	0.00
	33	0.00	0.00	-0.19	-0.01	-0.01	0.00
	34	0.00	0.00	-0.19	-0.01	-0.01	0.00
	35	0.00	0.00	-0.19	-0.01	-0.01	0.00
	36	0.00	0.00	-0.19	-0.01	-0.01	0.00
	37	0.00	0.00	-0.19	-0.01	-0.01	0.00
	38	0.00	0.00	-0.19	-0.01	-0.01	0.00
	39	0.00	0.00	-0.19	-0.01	-0.01	0.00
	40	0.00	0.00	-0.19	-0.01	-0.01	0.00
	41	0.00	0.00	-0.19	-0.01	-0.01	0.00
	42	0.00	0.00	-0.17	-0.01	-0.00	0.00
	43	0.00	0.00	-0.13	0.00	0.00	0.00
	44	0.00	0.00	-0.19	-0.01	-0.01	0.00
	45	0.00	0.00	-0.16	-0.00	-0.00	0.00
	46	0.00	0.00	-0.23	-0.01	-0.01	0.00
	47	0.00	0.00	-0.24	-0.02	-0.01	0.00
	48	0.00	0.00	-0.26	-0.02	-0.01	0.00
	49	0.00	0.00	-0.27	-0.02	-0.02	0.00
	50	0.00	0.00	-0.23	-0.01	-0.01	0.00
	51	0.00	0.00	-0.19	-0.00	-0.01	0.00
	52	0.00	0.00	-0.25	-0.01	-0.02	0.00
	53	0.00	0.00	-0.21	-0.01	-0.01	0.00
	54	0.00	0.00	-0.11	0.01	0.00	0.00
	55	0.00	0.00	-0.13	0.01	-0.00	0.00
	56	0.00	0.00	-0.14	0.00	-0.00	0.00
	57	0.00	0.00	-0.16	0.00	-0.01	0.00
	58	0.00	0.00	-0.17	-0.01	-0.00	0.00
	59	0.00	0.00	-0.13	0.00	0.00	0.00
	60	0.00	0.00	-0.19	-0.01	-0.00	0.00
	61	0.00	0.00	-0.15	-0.00	-0.00	0.00
	62	0.00	0.00	-0.23	-0.02	-0.01	0.00
	63	0.00	0.00	-0.25	-0.02	-0.01	0.00
	64	0.00	0.00	-0.27	-0.02	-0.01	0.00
	65	0.00	0.00	-0.29	-0.03	-0.02	0.00
	66	0.00	0.00	-0.23	-0.01	-0.01	0.00
	67	0.00	0.00	-0.19	-0.00	-0.01	0.00
	68	0.00	0.00	-0.26	-0.02	-0.02	0.00
	69	0.00	0.00	-0.21	-0.01	-0.01	0.00
	70	0.00	0.00	-0.09	0.01	0.00	0.00
	71	0.00	0.00	-0.11	0.01	-0.00	0.00
	72	0.00	0.00	-0.13	0.01	-0.00	0.00
	73	0.00	0.00	-0.15	0.00	-0.00	0.00
15	1	0.00	0.00	-0.27	-0.02	0.00	0.00
	2	0.00	0.00	-0.25	-0.01	0.00	0.00
	3	0.00	0.00	-0.25	-0.01	0.00	0.00
	4	0.00	0.00	-0.25	-0.01	0.00	0.00
	5	0.00	0.00	-0.25	-0.01	0.00	0.00
	6	0.00	0.00	-0.25	-0.01	0.00	0.00
	7	0.00	0.00	-0.25	-0.01	0.00	0.00
	8	0.00	0.00	-0.25	-0.01	0.00	0.00
	9	0.00	0.00	-0.17	-0.01	0.01	0.00
	10	0.00	0.00	-0.15	-0.01	0.01	0.00
	11	0.00	0.00	-0.18	-0.01	0.01	0.00
	12	0.00	0.00	-0.16	-0.01	0.01	0.00
	13	0.00	0.00	-0.19	-0.01	0.00	0.00
	14	0.00	0.00	-0.20	-0.01	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.20	-0.02	0.00	0.00
	16	0.00	0.00	-0.21	-0.02	-0.00	0.00
	17	0.00	0.00	-0.19	-0.01	-0.01	0.00
	18	0.00	0.00	-0.17	-0.01	-0.00	0.00
	19	0.00	0.00	-0.19	-0.01	-0.01	0.00
	20	0.00	0.00	-0.17	-0.01	-0.00	0.00
	21	0.00	0.00	-0.14	-0.00	0.00	0.00
	22	0.00	0.00	-0.14	-0.00	0.00	0.00
	23	0.00	0.00	-0.15	-0.00	0.00	0.00
	24	0.00	0.00	-0.15	-0.00	0.00	0.00
	25	0.00	0.00	-0.19	-0.01	0.00	0.00
	26	0.00	0.00	-0.18	-0.01	0.00	0.00
	27	0.00	0.00	-0.17	-0.01	0.00	0.00
	28	0.00	0.00	-0.17	-0.01	0.00	0.00
	29	0.00	0.00	-0.17	-0.01	0.00	0.00
	30	0.00	0.00	-0.17	-0.01	0.00	0.00
	31	0.00	0.00	-0.17	-0.01	0.00	0.00
	32	0.00	0.00	-0.17	-0.01	0.00	0.00
	33	0.00	0.00	-0.17	-0.01	0.00	0.00
	34	0.00	0.00	-0.17	-0.01	0.00	0.00
	35	0.00	0.00	-0.17	-0.01	0.00	0.00
	36	0.00	0.00	-0.17	-0.01	0.00	0.00
	37	0.00	0.00	-0.17	-0.01	0.00	0.00
	38	0.00	0.00	-0.17	-0.01	0.00	0.00
	39	0.00	0.00	-0.17	-0.01	0.00	0.00
	40	0.00	0.00	-0.17	-0.01	0.00	0.00
	41	0.00	0.00	-0.17	-0.01	0.00	0.00
	42	0.00	0.00	-0.17	-0.01	0.01	0.00
	43	0.00	0.00	-0.16	-0.01	0.01	0.00
	44	0.00	0.00	-0.18	-0.01	0.01	0.00
	45	0.00	0.00	-0.16	-0.01	0.01	0.00
	46	0.00	0.00	-0.19	-0.01	0.00	0.00
	47	0.00	0.00	-0.20	-0.01	-0.00	0.00
	48	0.00	0.00	-0.20	-0.02	0.00	0.00
	49	0.00	0.00	-0.20	-0.02	-0.00	0.00
	50	0.00	0.00	-0.18	-0.01	-0.00	0.00
	51	0.00	0.00	-0.17	-0.01	-0.00	0.00
	52	0.00	0.00	-0.19	-0.01	-0.00	0.00
	53	0.00	0.00	-0.17	-0.01	-0.00	0.00
	54	0.00	0.00	-0.14	-0.00	0.00	0.00
	55	0.00	0.00	-0.14	-0.00	0.00	0.00
	56	0.00	0.00	-0.15	-0.00	0.00	0.00
	57	0.00	0.00	-0.15	-0.01	0.00	0.00
	58	0.00	0.00	-0.17	-0.01	0.01	0.00
	59	0.00	0.00	-0.15	-0.01	0.01	0.00
	60	0.00	0.00	-0.18	-0.01	0.01	0.00
	61	0.00	0.00	-0.16	-0.01	0.01	0.00
	62	0.00	0.00	-0.20	-0.01	0.00	0.00
	63	0.00	0.00	-0.20	-0.01	-0.00	0.00
	64	0.00	0.00	-0.20	-0.02	0.00	0.00
	65	0.00	0.00	-0.21	-0.02	-0.00	0.00
	66	0.00	0.00	-0.19	-0.01	-0.01	0.00
	67	0.00	0.00	-0.17	-0.01	-0.01	0.00
	68	0.00	0.00	-0.19	-0.01	-0.01	0.00
	69	0.00	0.00	-0.17	-0.01	-0.00	0.00
	70	0.00	0.00	-0.14	-0.00	0.00	0.00
	71	0.00	0.00	-0.14	-0.00	0.00	0.00
	72	0.00	0.00	-0.14	-0.00	0.00	0.00
	73	0.00	0.00	-0.15	-0.00	0.00	0.00
16	1	0.00	0.00	-0.27	-0.02	-0.00	0.00
	2	0.00	0.00	-0.25	-0.01	-0.00	0.00
	3	0.00	0.00	-0.25	-0.01	-0.00	0.00
	4	0.00	0.00	-0.25	-0.01	-0.00	0.00
	5	0.00	0.00	-0.25	-0.01	-0.00	0.00
	6	0.00	0.00	-0.25	-0.01	-0.00	0.00
	7	0.00	0.00	-0.25	-0.01	-0.00	0.00
	8	0.00	0.00	-0.25	-0.01	-0.00	0.00
	9	0.00	0.00	-0.18	-0.01	0.00	0.00
	10	0.00	0.00	-0.17	-0.01	0.00	0.00
	11	0.00	0.00	-0.19	-0.01	0.00	0.00
	12	0.00	0.00	-0.17	-0.01	0.01	0.00
	13	0.00	0.00	-0.20	-0.01	0.00	0.00
	14	0.00	0.00	-0.20	-0.01	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.20	-0.01	0.00	0.00
	16	0.00	0.00	-0.20	-0.01	-0.00	0.00
	17	0.00	0.00	-0.18	-0.01	-0.01	0.00
	18	0.00	0.00	-0.16	-0.01	-0.01	0.00
	19	0.00	0.00	-0.18	-0.01	-0.01	0.00
	20	0.00	0.00	-0.16	-0.01	-0.00	0.00
	21	0.00	0.00	-0.15	-0.00	0.00	0.00
	22	0.00	0.00	-0.15	-0.00	-0.00	0.00
	23	0.00	0.00	-0.15	-0.00	0.00	0.00
	24	0.00	0.00	-0.15	-0.00	-0.00	0.00
	25	0.00	0.00	-0.19	-0.01	-0.00	0.00
	26	0.00	0.00	-0.18	-0.01	-0.00	0.00
	27	0.00	0.00	-0.18	-0.01	-0.00	0.00
	28	0.00	0.00	-0.18	-0.01	-0.00	0.00
	29	0.00	0.00	-0.18	-0.01	-0.00	0.00
	30	0.00	0.00	-0.18	-0.01	-0.00	0.00
	31	0.00	0.00	-0.18	-0.01	-0.00	0.00
	32	0.00	0.00	-0.18	-0.01	-0.00	0.00
	33	0.00	0.00	-0.17	-0.01	-0.00	0.00
	34	0.00	0.00	-0.17	-0.01	-0.00	0.00
	35	0.00	0.00	-0.17	-0.01	-0.00	0.00
	36	0.00	0.00	-0.17	-0.01	-0.00	0.00
	37	0.00	0.00	-0.17	-0.01	-0.00	0.00
	38	0.00	0.00	-0.17	-0.01	-0.00	0.00
	39	0.00	0.00	-0.17	-0.01	-0.00	0.00
	40	0.00	0.00	-0.17	-0.01	-0.00	0.00
	41	0.00	0.00	-0.17	-0.01	-0.00	0.00
	42	0.00	0.00	-0.18	-0.01	0.00	0.00
	43	0.00	0.00	-0.17	-0.01	0.00	0.00
	44	0.00	0.00	-0.18	-0.01	0.00	0.00
	45	0.00	0.00	-0.17	-0.01	0.00	0.00
	46	0.00	0.00	-0.20	-0.01	0.00	0.00
	47	0.00	0.00	-0.19	-0.01	-0.00	0.00
	48	0.00	0.00	-0.20	-0.01	0.00	0.00
	49	0.00	0.00	-0.20	-0.01	-0.00	0.00
	50	0.00	0.00	-0.18	-0.01	-0.01	0.00
	51	0.00	0.00	-0.16	-0.01	-0.00	0.00
	52	0.00	0.00	-0.18	-0.01	-0.00	0.00
	53	0.00	0.00	-0.16	-0.01	-0.00	0.00
	54	0.00	0.00	-0.15	-0.00	0.00	0.00
	55	0.00	0.00	-0.15	-0.00	-0.00	0.00
	56	0.00	0.00	-0.15	-0.00	0.00	0.00
	57	0.00	0.00	-0.15	-0.00	-0.00	0.00
	58	0.00	0.00	-0.18	-0.01	0.00	0.00
	59	0.00	0.00	-0.17	-0.01	0.00	0.00
	60	0.00	0.00	-0.19	-0.01	0.01	0.00
	61	0.00	0.00	-0.17	-0.01	0.01	0.00
	62	0.00	0.00	-0.20	-0.01	0.00	0.00
	63	0.00	0.00	-0.20	-0.01	-0.00	0.00
	64	0.00	0.00	-0.20	-0.01	0.00	0.00
	65	0.00	0.00	-0.20	-0.01	-0.00	0.00
	66	0.00	0.00	-0.18	-0.01	-0.01	0.00
	67	0.00	0.00	-0.16	-0.01	-0.01	0.00
	68	0.00	0.00	-0.18	-0.01	-0.01	0.00
	69	0.00	0.00	-0.16	-0.01	-0.01	0.00
	70	0.00	0.00	-0.15	-0.00	0.00	0.00
	71	0.00	0.00	-0.14	-0.00	-0.00	0.00
	72	0.00	0.00	-0.15	-0.00	0.00	0.00
	73	0.00	0.00	-0.15	-0.00	-0.00	0.00
17	1	0.00	0.00	-0.27	-0.02	-0.00	0.00
	2	0.00	0.00	-0.25	-0.01	-0.00	0.00
	3	0.00	0.00	-0.25	-0.01	-0.00	0.00
	4	0.00	0.00	-0.25	-0.01	-0.00	0.00
	5	0.00	0.00	-0.25	-0.01	-0.00	0.00
	6	0.00	0.00	-0.25	-0.01	-0.00	0.00
	7	0.00	0.00	-0.25	-0.01	-0.00	0.00
	8	0.00	0.00	-0.25	-0.01	-0.00	0.00
	9	0.00	0.00	-0.19	-0.01	0.01	0.00
	10	0.00	0.00	-0.17	-0.01	0.00	0.00
	11	0.00	0.00	-0.19	-0.01	0.01	0.00
	12	0.00	0.00	-0.17	-0.01	0.01	0.00
	13	0.00	0.00	-0.21	-0.02	0.00	0.00
	14	0.00	0.00	-0.21	-0.02	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.20	-0.02	0.00	0.00
	16	0.00	0.00	-0.20	-0.01	-0.00	0.00
	17	0.00	0.00	-0.18	-0.01	-0.01	0.00
	18	0.00	0.00	-0.16	-0.01	-0.01	0.00
	19	0.00	0.00	-0.18	-0.01	-0.01	0.00
	20	0.00	0.00	-0.16	-0.01	-0.01	0.00
	21	0.00	0.00	-0.15	-0.00	-0.00	0.00
	22	0.00	0.00	-0.14	-0.00	-0.00	0.00
	23	0.00	0.00	-0.14	-0.00	0.00	0.00
	24	0.00	0.00	-0.14	-0.00	-0.00	0.00
	25	0.00	0.00	-0.19	-0.01	-0.00	0.00
	26	0.00	0.00	-0.18	-0.01	-0.00	0.00
	27	0.00	0.00	-0.18	-0.01	-0.00	0.00
	28	0.00	0.00	-0.18	-0.01	-0.00	0.00
	29	0.00	0.00	-0.18	-0.01	-0.00	0.00
	30	0.00	0.00	-0.18	-0.01	-0.00	0.00
	31	0.00	0.00	-0.18	-0.01	-0.00	0.00
	32	0.00	0.00	-0.18	-0.01	-0.00	0.00
	33	0.00	0.00	-0.17	-0.01	-0.00	0.00
	34	0.00	0.00	-0.17	-0.01	-0.00	0.00
	35	0.00	0.00	-0.17	-0.01	-0.00	0.00
	36	0.00	0.00	-0.17	-0.01	-0.00	0.00
	37	0.00	0.00	-0.17	-0.01	-0.00	0.00
	38	0.00	0.00	-0.17	-0.01	-0.00	0.00
	39	0.00	0.00	-0.17	-0.01	-0.00	0.00
	40	0.00	0.00	-0.17	-0.01	-0.00	0.00
	41	0.00	0.00	-0.17	-0.01	-0.00	0.00
	42	0.00	0.00	-0.19	-0.01	0.00	0.00
	43	0.00	0.00	-0.17	-0.01	0.00	0.00
	44	0.00	0.00	-0.18	-0.01	0.01	0.00
	45	0.00	0.00	-0.17	-0.01	0.00	0.00
	46	0.00	0.00	-0.20	-0.02	0.00	0.00
	47	0.00	0.00	-0.20	-0.02	-0.00	0.00
	48	0.00	0.00	-0.20	-0.02	0.00	0.00
	49	0.00	0.00	-0.20	-0.01	-0.00	0.00
	50	0.00	0.00	-0.18	-0.01	-0.01	0.00
	51	0.00	0.00	-0.16	-0.01	-0.01	0.00
	52	0.00	0.00	-0.18	-0.01	-0.01	0.00
	53	0.00	0.00	-0.16	-0.01	-0.01	0.00
	54	0.00	0.00	-0.15	-0.00	-0.00	0.00
	55	0.00	0.00	-0.15	-0.00	-0.00	0.00
	56	0.00	0.00	-0.14	-0.00	0.00	0.00
	57	0.00	0.00	-0.14	-0.00	-0.00	0.00
	58	0.00	0.00	-0.19	-0.01	0.01	0.00
	59	0.00	0.00	-0.17	-0.01	0.01	0.00
	60	0.00	0.00	-0.19	-0.01	0.01	0.00
	61	0.00	0.00	-0.17	-0.01	0.01	0.00
	62	0.00	0.00	-0.21	-0.02	0.00	0.00
	63	0.00	0.00	-0.21	-0.02	-0.00	0.00
	64	0.00	0.00	-0.20	-0.02	0.00	0.00
	65	0.00	0.00	-0.20	-0.02	-0.00	0.00
	66	0.00	0.00	-0.18	-0.01	-0.01	0.00
	67	0.00	0.00	-0.16	-0.01	-0.01	0.00
	68	0.00	0.00	-0.18	-0.01	-0.01	0.00
	69	0.00	0.00	-0.16	-0.01	-0.01	0.00
	70	0.00	0.00	-0.15	-0.00	0.00	0.00
	71	0.00	0.00	-0.14	-0.00	-0.00	0.00
	72	0.00	0.00	-0.14	-0.00	0.00	0.00
	73	0.00	0.00	-0.14	-0.00	-0.00	0.00
18	1	0.00	0.00	-0.31	-0.01	0.01	0.00
	2	0.00	0.00	-0.28	-0.01	0.01	0.00
	3	0.00	0.00	-0.27	-0.01	0.01	0.00
	4	0.00	0.00	-0.27	-0.01	0.01	0.00
	5	0.00	0.00	-0.27	-0.01	0.01	0.00
	6	0.00	0.00	-0.27	-0.01	0.01	0.00
	7	0.00	0.00	-0.27	-0.01	0.01	0.00
	8	0.00	0.00	-0.27	-0.01	0.01	0.00
	9	0.00	0.00	-0.25	-0.02	0.02	0.00
	10	0.00	0.00	-0.21	-0.00	0.01	0.00
	11	0.00	0.00	-0.23	-0.01	0.02	0.00
	12	0.00	0.00	-0.19	-0.00	0.01	0.00
	13	0.00	0.00	-0.29	-0.03	0.02	0.00
	14	0.00	0.00	-0.27	-0.03	0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.00	0.00	-0.26	-0.02	0.02	0.00
	16	0.00	0.00	-0.24	-0.02	0.01	0.00
	17	0.00	0.00	-0.19	-0.01	0.00	0.00
	18	0.00	0.00	-0.15	0.00	-0.00	0.00
	19	0.00	0.00	-0.17	-0.01	0.00	0.00
	20	0.00	0.00	-0.13	0.00	-0.00	0.00
	21	0.00	0.00	-0.14	0.01	0.00	0.00
	22	0.00	0.00	-0.12	0.01	-0.00	0.00
	23	0.00	0.00	-0.11	0.02	0.00	0.00
	24	0.00	0.00	-0.09	0.02	-0.00	0.00
	25	0.00	0.00	-0.21	-0.01	0.01	0.00
	26	0.00	0.00	-0.19	-0.01	0.01	0.00
	27	0.00	0.00	-0.19	-0.01	0.01	0.00
	28	0.00	0.00	-0.19	-0.01	0.01	0.00
	29	0.00	0.00	-0.19	-0.01	0.01	0.00
	30	0.00	0.00	-0.19	-0.01	0.01	0.00
	31	0.00	0.00	-0.19	-0.01	0.01	0.00
	32	0.00	0.00	-0.19	-0.01	0.01	0.00
	33	0.00	0.00	-0.19	-0.01	0.01	0.00
	34	0.00	0.00	-0.19	-0.01	0.01	0.00
	35	0.00	0.00	-0.19	-0.01	0.01	0.00
	36	0.00	0.00	-0.19	-0.01	0.01	0.00
	37	0.00	0.00	-0.19	-0.01	0.01	0.00
	38	0.00	0.00	-0.19	-0.01	0.01	0.00
	39	0.00	0.00	-0.19	-0.01	0.01	0.00
	40	0.00	0.00	-0.19	-0.01	0.01	0.00
	41	0.00	0.00	-0.19	-0.01	0.01	0.00
	42	0.00	0.00	-0.25	-0.02	0.02	0.00
	43	0.00	0.00	-0.21	-0.01	0.01	0.00
	44	0.00	0.00	-0.23	-0.01	0.01	0.00
	45	0.00	0.00	-0.19	-0.00	0.01	0.00
	46	0.00	0.00	-0.28	-0.03	0.02	0.00
	47	0.00	0.00	-0.26	-0.03	0.01	0.00
	48	0.00	0.00	-0.25	-0.02	0.01	0.00
	49	0.00	0.00	-0.23	-0.02	0.01	0.00
	50	0.00	0.00	-0.19	-0.01	0.00	0.00
	51	0.00	0.00	-0.15	0.00	0.00	0.00
	52	0.00	0.00	-0.17	-0.01	0.00	0.00
	53	0.00	0.00	-0.13	0.00	-0.00	0.00
	54	0.00	0.00	-0.14	0.01	0.00	0.00
	55	0.00	0.00	-0.13	0.01	0.00	0.00
	56	0.00	0.00	-0.12	0.01	0.00	0.00
	57	0.00	0.00	-0.10	0.02	-0.00	0.00
	58	0.00	0.00	-0.26	-0.02	0.02	0.00
	59	0.00	0.00	-0.21	-0.00	0.01	0.00
	60	0.00	0.00	-0.24	-0.01	0.02	0.00
	61	0.00	0.00	-0.19	-0.00	0.01	0.00
	62	0.00	0.00	-0.29	-0.03	0.02	0.00
	63	0.00	0.00	-0.27	-0.03	0.01	0.00
	64	0.00	0.00	-0.26	-0.02	0.02	0.00
	65	0.00	0.00	-0.24	-0.02	0.01	0.00
	66	0.00	0.00	-0.19	-0.01	0.00	0.00
	67	0.00	0.00	-0.14	0.00	-0.00	0.00
	68	0.00	0.00	-0.17	-0.01	0.00	0.00
	69	0.00	0.00	-0.12	0.00	-0.00	0.00
	70	0.00	0.00	-0.14	0.01	0.00	0.00
	71	0.00	0.00	-0.12	0.01	-0.00	0.00
	72	0.00	0.00	-0.11	0.02	0.00	0.00
	73	0.00	0.00	-0.09	0.02	-0.00	0.00
101	1	-0.00	-0.05	-0.34	0.01	0.05	-0.00
	2	-0.00	-0.04	-0.30	0.01	0.04	-0.00
	3	-0.00	-0.04	-0.30	0.01	0.04	-0.00
	4	-0.00	-0.04	-0.30	0.01	0.04	-0.00
	5	-0.00	-0.04	-0.30	0.01	0.04	-0.00
	6	-0.00	-0.04	-0.30	0.01	0.04	-0.00
	7	-0.00	-0.04	-0.26	0.01	0.04	-0.00
	8	-0.00	-0.04	-0.34	0.01	0.04	-0.00
	9	0.33	0.01	-0.16	0.00	0.04	0.00
	10	0.32	-0.17	-0.21	0.02	0.04	0.00
	11	0.27	0.16	-0.13	-0.02	0.04	-0.00
	12	0.26	-0.01	-0.17	0.00	0.04	-0.01
	13	0.15	0.17	-0.14	-0.02	0.03	0.01
	14	-0.03	0.16	-0.16	-0.02	0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.06	0.37	-0.09	-0.04	0.03	-0.00
	16	-0.12	0.35	-0.12	-0.04	0.02	-0.00
	17	-0.27	-0.04	-0.24	0.01	0.01	0.01
	18	-0.28	-0.22	-0.29	0.03	0.01	0.00
	19	-0.33	0.11	-0.21	-0.01	0.01	-0.00
	20	-0.33	-0.06	-0.25	0.01	0.01	-0.00
	21	0.12	-0.41	-0.30	0.05	0.03	0.00
	22	-0.06	-0.42	-0.32	0.05	0.02	0.00
	23	0.03	-0.21	-0.25	0.02	0.03	-0.01
	24	-0.15	-0.23	-0.27	0.03	0.02	-0.01
	25	-0.00	-0.04	-0.24	0.01	0.03	-0.00
	26	-0.00	-0.03	-0.21	0.01	0.03	-0.00
	27	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	28	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	29	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	30	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	31	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	32	-0.00	-0.03	-0.24	0.00	0.03	-0.00
	33	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	34	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	35	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	36	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	37	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	38	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	39	-0.00	-0.03	-0.17	0.00	0.03	-0.00
	40	-0.00	-0.03	-0.24	0.00	0.03	-0.00
	41	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	42	0.30	0.00	-0.16	0.00	0.04	0.00
	43	0.29	-0.15	-0.21	0.02	0.04	0.00
	44	0.25	0.14	-0.14	-0.01	0.04	-0.00
	45	0.24	-0.01	-0.18	0.00	0.04	-0.01
	46	0.13	0.15	-0.15	-0.01	0.03	0.01
	47	-0.03	0.14	-0.17	-0.01	0.02	0.01
	48	0.05	0.33	-0.10	-0.03	0.03	-0.00
	49	-0.11	0.32	-0.13	-0.03	0.02	-0.00
	50	-0.24	-0.04	-0.24	0.01	0.01	0.01
	51	-0.25	-0.20	-0.28	0.02	0.01	0.00
	52	-0.29	0.10	-0.21	-0.01	0.01	-0.00
	53	-0.30	-0.06	-0.25	0.01	0.01	-0.00
	54	0.11	-0.37	-0.29	0.04	0.03	0.00
	55	-0.06	-0.38	-0.31	0.04	0.02	0.00
	56	0.03	-0.19	-0.25	0.02	0.03	-0.01
	57	-0.14	-0.20	-0.27	0.02	0.02	-0.01
	58	0.35	0.01	-0.16	0.00	0.04	0.00
	59	0.34	-0.17	-0.21	0.02	0.04	0.00
	60	0.29	0.17	-0.12	-0.02	0.04	-0.00
	61	0.28	-0.01	-0.17	0.00	0.04	-0.01
	62	0.16	0.18	-0.14	-0.02	0.03	0.01
	63	-0.03	0.17	-0.16	-0.02	0.02	0.01
	64	0.06	0.39	-0.09	-0.04	0.03	-0.00
	65	-0.13	0.37	-0.11	-0.04	0.02	-0.00
	66	-0.28	-0.04	-0.24	0.01	0.01	0.01
	67	-0.29	-0.23	-0.29	0.03	0.01	0.00
	68	-0.34	0.12	-0.21	-0.01	0.01	-0.00
	69	-0.35	-0.06	-0.26	0.01	0.01	-0.00
	70	0.12	-0.43	-0.30	0.05	0.03	0.00
	71	-0.07	-0.44	-0.33	0.05	0.02	0.00
	72	0.03	-0.22	-0.25	0.03	0.03	-0.01
	73	-0.16	-0.23	-0.28	0.03	0.02	-0.01
103	1	-0.00	-0.05	-0.43	0.04	-0.00	-0.00
	2	-0.00	-0.04	-0.38	0.03	-0.00	-0.00
	3	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	4	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	5	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	6	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	7	-0.00	-0.04	-0.33	0.03	-0.00	-0.00
	8	-0.00	-0.04	-0.42	0.03	-0.00	-0.00
	9	0.33	0.03	-0.24	0.01	0.02	0.00
	10	0.32	-0.15	-0.27	0.02	0.02	0.00
	11	0.27	0.12	-0.23	0.01	0.02	-0.00
	12	0.26	-0.06	-0.26	0.02	0.02	-0.01
	13	0.15	0.22	-0.21	0.00	0.01	0.01
	14	-0.03	0.21	-0.21	0.01	-0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.06	0.33	-0.19	-0.00	0.00	-0.00
	16	-0.12	0.32	-0.20	0.00	-0.01	-0.00
	17	-0.27	0.00	-0.26	0.02	-0.02	0.01
	18	-0.28	-0.18	-0.29	0.03	-0.02	0.00
	19	-0.33	0.09	-0.25	0.01	-0.03	-0.00
	20	-0.33	-0.09	-0.28	0.02	-0.03	-0.00
	21	0.12	-0.38	-0.32	0.03	0.00	0.00
	22	-0.06	-0.39	-0.33	0.03	-0.01	0.00
	23	0.03	-0.27	-0.30	0.03	0.00	-0.01
	24	-0.15	-0.28	-0.31	0.03	-0.01	-0.01
	25	-0.00	-0.04	-0.30	0.03	-0.00	-0.00
	26	-0.00	-0.03	-0.27	0.02	-0.00	-0.00
	27	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	28	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	29	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	30	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	31	-0.00	-0.03	-0.24	0.02	-0.00	-0.00
	32	-0.00	-0.03	-0.29	0.02	-0.00	-0.00
	33	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	34	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	35	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	36	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	37	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	38	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	39	-0.00	-0.03	-0.22	0.02	-0.00	-0.00
	40	-0.00	-0.03	-0.29	0.02	-0.00	-0.00
	41	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	42	0.30	0.03	-0.24	0.01	0.02	0.00
	43	0.29	-0.13	-0.27	0.02	0.02	0.00
	44	0.25	0.11	-0.23	0.01	0.02	-0.00
	45	0.24	-0.05	-0.26	0.02	0.02	-0.01
	46	0.13	0.20	-0.21	0.01	0.01	0.01
	47	-0.03	0.19	-0.22	0.01	-0.01	0.01
	48	0.05	0.30	-0.20	0.00	0.00	-0.00
	49	-0.11	0.29	-0.20	0.00	-0.01	-0.00
	50	-0.24	0.00	-0.26	0.02	-0.02	0.01
	51	-0.25	-0.16	-0.29	0.02	-0.02	0.00
	52	-0.29	0.08	-0.25	0.01	-0.02	-0.00
	53	-0.30	-0.08	-0.28	0.02	-0.02	-0.00
	54	0.11	-0.34	-0.31	0.03	0.00	0.00
	55	-0.06	-0.35	-0.32	0.03	-0.01	0.00
	56	0.03	-0.24	-0.30	0.03	0.00	-0.01
	57	-0.14	-0.25	-0.31	0.03	-0.01	-0.01
	58	0.35	0.04	-0.24	0.01	0.02	0.00
	59	0.34	-0.15	-0.27	0.02	0.02	0.00
	60	0.29	0.13	-0.22	0.01	0.02	-0.00
	61	0.28	-0.06	-0.26	0.02	0.02	-0.01
	62	0.16	0.24	-0.20	0.00	0.01	0.01
	63	-0.03	0.23	-0.21	0.01	-0.01	0.01
	64	0.06	0.35	-0.19	-0.00	0.01	-0.00
	65	-0.13	0.34	-0.19	-0.00	-0.01	-0.00
	66	-0.28	0.01	-0.26	0.02	-0.02	0.01
	67	-0.29	-0.18	-0.29	0.03	-0.03	0.00
	68	-0.34	0.10	-0.24	0.01	-0.03	-0.00
	69	-0.35	-0.09	-0.28	0.02	-0.03	-0.00
	70	0.12	-0.40	-0.32	0.03	0.00	0.00
	71	-0.07	-0.41	-0.33	0.04	-0.01	0.00
	72	0.03	-0.28	-0.31	0.03	0.00	-0.01
	73	-0.16	-0.29	-0.31	0.03	-0.01	-0.01
104	1	-0.00	-0.05	-0.49	0.05	0.00	-0.00
	2	-0.00	-0.04	-0.43	0.03	0.00	-0.00
	3	-0.00	-0.04	-0.42	0.03	0.00	-0.00
	4	-0.00	-0.04	-0.42	0.03	0.00	-0.00
	5	-0.00	-0.04	-0.42	0.03	0.00	-0.00
	6	-0.00	-0.04	-0.42	0.03	0.00	-0.00
	7	-0.00	-0.04	-0.38	0.03	0.00	-0.00
	8	-0.00	-0.04	-0.46	0.03	0.00	-0.00
	9	0.33	0.06	-0.27	0.02	0.02	0.00
	10	0.32	-0.13	-0.32	0.02	0.02	0.00
	11	0.27	0.05	-0.27	0.02	0.02	-0.00
	12	0.26	-0.14	-0.32	0.03	0.02	-0.01
	13	0.15	0.28	-0.22	0.01	0.01	0.01
	14	-0.03	0.29	-0.22	0.00	-0.00	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.06	0.29	-0.22	0.00	0.01	-0.00
	16	-0.12	0.30	-0.22	0.00	-0.01	-0.00
	17	-0.27	0.09	-0.26	0.01	-0.02	0.01
	18	-0.28	-0.10	-0.31	0.02	-0.02	0.00
	19	-0.33	0.07	-0.26	0.01	-0.02	-0.00
	20	-0.33	-0.12	-0.31	0.02	-0.02	-0.00
	21	0.12	-0.35	-0.36	0.03	0.01	0.00
	22	-0.06	-0.34	-0.36	0.03	-0.00	0.00
	23	0.03	-0.34	-0.36	0.03	0.01	-0.01
	24	-0.15	-0.34	-0.36	0.03	-0.01	-0.01
	25	-0.00	-0.04	-0.35	0.03	0.00	-0.00
	26	-0.00	-0.03	-0.30	0.02	0.00	-0.00
	27	-0.00	-0.03	-0.30	0.02	0.00	-0.00
	28	-0.00	-0.03	-0.30	0.02	0.00	-0.00
	29	-0.00	-0.03	-0.30	0.02	0.00	-0.00
	30	-0.00	-0.03	-0.30	0.02	0.00	-0.00
	31	-0.00	-0.03	-0.27	0.02	0.00	-0.00
	32	-0.00	-0.03	-0.32	0.02	0.00	-0.00
	33	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	34	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	35	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	36	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	37	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	38	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	39	-0.00	-0.03	-0.26	0.02	0.00	-0.00
	40	-0.00	-0.03	-0.32	0.02	0.00	-0.00
	41	-0.00	-0.03	-0.29	0.02	0.00	-0.00
	42	0.30	0.05	-0.28	0.02	0.02	0.00
	43	0.29	-0.12	-0.31	0.02	0.02	0.00
	44	0.25	0.04	-0.28	0.02	0.02	-0.00
	45	0.24	-0.13	-0.31	0.02	0.02	-0.01
	46	0.13	0.25	-0.23	0.01	0.01	0.01
	47	-0.03	0.26	-0.23	0.01	-0.00	0.01
	48	0.05	0.26	-0.23	0.01	0.01	-0.00
	49	-0.11	0.26	-0.22	0.01	-0.00	-0.00
	50	-0.24	0.08	-0.27	0.01	-0.01	0.01
	51	-0.25	-0.09	-0.30	0.02	-0.01	0.00
	52	-0.29	0.06	-0.27	0.02	-0.02	-0.00
	53	-0.30	-0.11	-0.30	0.02	-0.02	-0.00
	54	0.11	-0.32	-0.36	0.03	0.01	0.00
	55	-0.06	-0.31	-0.35	0.03	-0.00	0.00
	56	0.03	-0.31	-0.35	0.03	0.01	-0.01
	57	-0.14	-0.30	-0.35	0.03	-0.01	-0.01
	58	0.35	0.06	-0.27	0.02	0.03	0.00
	59	0.34	-0.13	-0.32	0.02	0.02	0.00
	60	0.29	0.05	-0.27	0.02	0.02	-0.00
	61	0.28	-0.15	-0.32	0.03	0.02	-0.01
	62	0.16	0.30	-0.22	0.00	0.01	0.01
	63	-0.03	0.31	-0.22	0.00	-0.00	0.01
	64	0.06	0.30	-0.22	0.00	0.01	-0.00
	65	-0.13	0.31	-0.21	0.00	-0.01	-0.00
	66	-0.28	0.10	-0.26	0.01	-0.02	0.01
	67	-0.29	-0.10	-0.31	0.02	-0.02	0.00
	68	-0.34	0.08	-0.26	0.01	-0.02	-0.00
	69	-0.35	-0.12	-0.31	0.02	-0.02	-0.00
	70	0.12	-0.37	-0.37	0.04	0.01	0.00
	71	-0.07	-0.36	-0.36	0.04	-0.00	0.00
	72	0.03	-0.36	-0.36	0.04	0.01	-0.01
	73	-0.16	-0.35	-0.36	0.03	-0.01	-0.01
105	1	-0.00	-0.05	-0.44	0.04	-0.00	-0.00
	2	-0.00	-0.04	-0.38	0.03	-0.00	-0.00
	3	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	4	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	5	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	6	-0.00	-0.04	-0.37	0.03	-0.00	-0.00
	7	-0.00	-0.04	-0.33	0.03	-0.00	-0.00
	8	-0.00	-0.04	-0.41	0.03	-0.00	-0.00
	9	0.33	0.10	-0.23	0.01	0.02	0.00
	10	0.32	-0.11	-0.27	0.02	0.02	0.00
	11	0.27	0.02	-0.24	0.02	0.02	-0.00
	12	0.26	-0.18	-0.27	0.02	0.02	-0.01
	13	0.15	0.35	-0.18	0.00	0.01	0.01
	14	-0.03	0.36	-0.19	0.00	-0.00	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.06	0.26	-0.20	0.00	0.00	-0.00
	16	-0.12	0.27	-0.20	0.00	-0.01	-0.00
	17	-0.27	0.12	-0.24	0.01	-0.02	0.01
	18	-0.28	-0.08	-0.28	0.02	-0.02	0.00
	19	-0.33	0.05	-0.25	0.01	-0.02	-0.00
	20	-0.33	-0.15	-0.29	0.02	-0.02	-0.00
	21	0.12	-0.32	-0.31	0.03	0.01	0.00
	22	-0.06	-0.31	-0.32	0.03	-0.01	0.00
	23	0.03	-0.41	-0.33	0.04	0.00	-0.01
	24	-0.15	-0.41	-0.33	0.03	-0.01	-0.01
	25	-0.00	-0.04	-0.30	0.03	-0.00	-0.00
	26	-0.00	-0.03	-0.27	0.02	-0.00	-0.00
	27	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	28	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	29	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	30	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	31	-0.00	-0.03	-0.24	0.02	-0.00	-0.00
	32	-0.00	-0.03	-0.29	0.02	-0.00	-0.00
	33	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	34	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	35	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	36	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	37	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	38	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	39	-0.00	-0.03	-0.22	0.02	-0.00	-0.00
	40	-0.00	-0.03	-0.29	0.02	-0.00	-0.00
	41	-0.00	-0.03	-0.26	0.02	-0.00	-0.00
	42	0.30	0.08	-0.23	0.01	0.02	0.00
	43	0.29	-0.10	-0.27	0.02	0.02	0.00
	44	0.25	0.02	-0.24	0.02	0.02	-0.00
	45	0.24	-0.16	-0.27	0.02	0.02	-0.01
	46	0.13	0.31	-0.19	0.00	0.01	0.01
	47	-0.03	0.32	-0.20	0.00	-0.00	0.01
	48	0.05	0.23	-0.21	0.01	0.00	-0.00
	49	-0.11	0.24	-0.21	0.01	-0.01	-0.00
	50	-0.24	0.11	-0.24	0.01	-0.02	0.01
	51	-0.25	-0.07	-0.28	0.02	-0.02	0.00
	52	-0.29	0.04	-0.25	0.01	-0.02	-0.00
	53	-0.30	-0.14	-0.28	0.02	-0.02	-0.00
	54	0.11	-0.29	-0.31	0.03	0.01	0.00
	55	-0.06	-0.29	-0.31	0.03	-0.01	0.00
	56	0.03	-0.38	-0.32	0.03	0.00	-0.01
	57	-0.14	-0.37	-0.33	0.03	-0.01	-0.01
	58	0.35	0.10	-0.23	0.01	0.02	0.00
	59	0.34	-0.11	-0.27	0.02	0.02	0.00
	60	0.29	0.02	-0.23	0.02	0.02	-0.00
	61	0.28	-0.19	-0.27	0.02	0.02	-0.01
	62	0.16	0.37	-0.18	-0.00	0.01	0.01
	63	-0.03	0.38	-0.18	-0.00	-0.00	0.01
	64	0.06	0.27	-0.20	0.00	0.00	-0.00
	65	-0.13	0.28	-0.20	0.00	-0.01	-0.00
	66	-0.28	0.13	-0.24	0.01	-0.02	0.01
	67	-0.29	-0.08	-0.28	0.02	-0.02	0.00
	68	-0.34	0.05	-0.25	0.01	-0.02	-0.00
	69	-0.35	-0.16	-0.29	0.02	-0.03	-0.00
	70	0.12	-0.34	-0.32	0.03	0.01	0.00
	71	-0.07	-0.33	-0.32	0.03	-0.01	0.00
	72	0.03	-0.43	-0.33	0.04	0.00	-0.01
	73	-0.16	-0.43	-0.34	0.04	-0.01	-0.01
107	1	-0.00	-0.05	-0.37	0.02	-0.03	-0.00
	2	-0.00	-0.04	-0.33	0.01	-0.02	-0.00
	3	-0.00	-0.04	-0.32	0.01	-0.02	-0.00
	4	-0.00	-0.04	-0.32	0.01	-0.02	-0.00
	5	-0.00	-0.04	-0.32	0.01	-0.02	-0.00
	6	-0.00	-0.04	-0.32	0.01	-0.02	-0.00
	7	-0.00	-0.04	-0.28	0.01	-0.02	-0.00
	8	-0.00	-0.04	-0.36	0.01	-0.02	-0.00
	9	0.33	0.13	-0.26	0.00	0.02	0.00
	10	0.32	-0.09	-0.30	0.01	0.02	0.00
	11	0.27	-0.02	-0.27	0.01	0.02	-0.00
	12	0.26	-0.23	-0.31	0.02	0.02	-0.01
	13	0.15	0.42	-0.16	-0.01	0.00	0.01
	14	-0.03	0.43	-0.13	-0.01	-0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.06	0.22	-0.18	-0.00	-0.01	-0.00
	16	-0.12	0.24	-0.15	-0.01	-0.03	-0.00
	17	-0.27	0.17	-0.14	-0.00	-0.05	0.01
	18	-0.28	-0.04	-0.18	0.00	-0.05	0.00
	19	-0.33	0.03	-0.15	-0.00	-0.05	-0.00
	20	-0.33	-0.19	-0.19	0.01	-0.05	-0.00
	21	0.12	-0.30	-0.30	0.02	-0.00	0.00
	22	-0.06	-0.28	-0.26	0.02	-0.02	0.00
	23	0.03	-0.49	-0.32	0.03	-0.01	-0.01
	24	-0.15	-0.48	-0.29	0.03	-0.03	-0.01
	25	-0.00	-0.04	-0.26	0.01	-0.02	-0.00
	26	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	27	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	28	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	29	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	30	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	31	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	32	-0.00	-0.03	-0.26	0.01	-0.02	-0.00
	33	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	34	-0.00	-0.03	-0.23	0.01	-0.01	-0.00
	35	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	36	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	37	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	38	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	39	-0.00	-0.03	-0.19	0.01	-0.01	-0.00
	40	-0.00	-0.03	-0.26	0.01	-0.01	-0.00
	41	-0.00	-0.03	-0.22	0.01	-0.01	-0.00
	42	0.30	0.11	-0.25	0.01	0.02	0.00
	43	0.29	-0.08	-0.29	0.01	0.02	0.00
	44	0.25	-0.02	-0.27	0.01	0.01	-0.00
	45	0.24	-0.21	-0.30	0.02	0.01	-0.01
	46	0.13	0.37	-0.17	-0.01	0.00	0.01
	47	-0.03	0.39	-0.14	-0.01	-0.02	0.01
	48	0.05	0.20	-0.19	-0.00	-0.01	-0.00
	49	-0.11	0.21	-0.16	-0.01	-0.03	-0.00
	50	-0.24	0.15	-0.15	-0.00	-0.04	0.01
	51	-0.25	-0.04	-0.18	0.01	-0.04	0.00
	52	-0.29	0.02	-0.16	0.00	-0.05	-0.00
	53	-0.30	-0.17	-0.19	0.01	-0.05	-0.00
	54	0.11	-0.27	-0.29	0.02	-0.00	0.00
	55	-0.06	-0.26	-0.26	0.02	-0.02	0.00
	56	0.03	-0.45	-0.31	0.03	-0.01	-0.01
	57	-0.14	-0.43	-0.28	0.02	-0.03	-0.01
	58	0.35	0.14	-0.26	0.00	0.03	0.00
	59	0.34	-0.09	-0.30	0.01	0.02	0.00
	60	0.29	-0.02	-0.27	0.01	0.02	-0.00
	61	0.28	-0.24	-0.32	0.02	0.02	-0.01
	62	0.16	0.44	-0.16	-0.01	0.00	0.01
	63	-0.03	0.46	-0.12	-0.01	-0.02	0.01
	64	0.06	0.24	-0.18	-0.00	-0.01	-0.00
	65	-0.13	0.25	-0.14	-0.01	-0.03	-0.00
	66	-0.28	0.18	-0.13	-0.01	-0.05	0.01
	67	-0.29	-0.04	-0.18	0.00	-0.05	0.00
	68	-0.34	0.03	-0.15	-0.00	-0.05	-0.00
	69	-0.35	-0.19	-0.19	0.01	-0.06	-0.00
	70	0.12	-0.31	-0.30	0.02	-0.00	0.00
	71	-0.07	-0.30	-0.27	0.02	-0.02	0.00
	72	0.03	-0.52	-0.33	0.03	-0.01	-0.01
	73	-0.16	-0.50	-0.29	0.03	-0.03	-0.01
108	1	-0.00	-0.05	-0.29	0.00	0.04	-0.00
	2	-0.00	-0.04	-0.26	0.00	0.04	-0.00
	3	-0.00	-0.04	-0.26	0.00	0.04	-0.00
	4	-0.00	-0.04	-0.26	0.00	0.04	-0.00
	5	-0.00	-0.04	-0.26	0.00	0.04	-0.00
	6	-0.00	-0.04	-0.26	0.00	0.04	-0.00
	7	-0.00	-0.04	-0.22	0.00	0.04	-0.00
	8	-0.00	-0.04	-0.30	0.00	0.04	-0.00
	9	0.31	0.01	-0.16	-0.00	0.05	0.00
	10	0.31	-0.17	-0.16	0.01	0.05	0.00
	11	0.30	0.16	-0.16	-0.01	0.05	-0.00
	12	0.29	-0.01	-0.16	-0.00	0.05	-0.01
	13	0.11	0.17	-0.18	-0.02	0.03	0.01
	14	-0.07	0.16	-0.19	-0.01	0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.08	0.37	-0.18	-0.03	0.03	-0.00
	16	-0.10	0.35	-0.19	-0.03	0.02	-0.00
	17	-0.30	-0.04	-0.20	0.00	0.01	0.01
	18	-0.30	-0.22	-0.20	0.01	0.01	0.00
	19	-0.31	0.11	-0.21	-0.01	0.01	-0.00
	20	-0.32	-0.06	-0.20	0.00	0.01	-0.00
	21	0.10	-0.41	-0.17	0.03	0.03	0.00
	22	-0.09	-0.42	-0.19	0.03	0.02	0.00
	23	0.07	-0.21	-0.17	0.01	0.03	-0.01
	24	-0.11	-0.23	-0.19	0.02	0.02	-0.01
	25	-0.00	-0.04	-0.20	0.00	0.03	-0.00
	26	-0.00	-0.03	-0.19	0.00	0.03	-0.00
	27	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	28	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	29	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	30	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	31	-0.00	-0.03	-0.16	0.00	0.03	-0.00
	32	-0.00	-0.03	-0.21	0.00	0.03	-0.00
	33	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	34	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	35	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	36	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	37	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	38	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	39	-0.00	-0.03	-0.15	0.00	0.03	-0.00
	40	-0.00	-0.03	-0.22	0.00	0.03	-0.00
	41	-0.00	-0.03	-0.18	0.00	0.03	-0.00
	42	0.28	0.00	-0.16	-0.00	0.04	0.00
	43	0.28	-0.15	-0.16	0.01	0.04	0.00
	44	0.27	0.14	-0.16	-0.01	0.04	-0.00
	45	0.27	-0.01	-0.16	-0.00	0.04	-0.01
	46	0.10	0.15	-0.18	-0.01	0.03	0.01
	47	-0.07	0.14	-0.19	-0.01	0.02	0.01
	48	0.08	0.33	-0.18	-0.03	0.03	-0.00
	49	-0.09	0.32	-0.19	-0.03	0.02	-0.00
	50	-0.27	-0.04	-0.20	0.00	0.01	0.01
	51	-0.27	-0.20	-0.20	0.01	0.01	0.00
	52	-0.28	0.10	-0.20	-0.01	0.01	-0.00
	53	-0.28	-0.06	-0.20	0.00	0.01	-0.00
	54	0.09	-0.37	-0.17	0.03	0.03	0.00
	55	-0.08	-0.38	-0.19	0.03	0.02	0.00
	56	0.06	-0.19	-0.17	0.01	0.03	-0.01
	57	-0.10	-0.20	-0.19	0.01	0.02	-0.01
	58	0.33	0.01	-0.16	-0.00	0.05	0.00
	59	0.33	-0.17	-0.16	0.01	0.05	0.00
	60	0.31	0.17	-0.16	-0.01	0.05	-0.00
	61	0.31	-0.01	-0.16	-0.00	0.05	-0.01
	62	0.12	0.18	-0.18	-0.02	0.03	0.01
	63	-0.08	0.17	-0.19	-0.01	0.02	0.01
	64	0.09	0.39	-0.18	-0.03	0.03	-0.00
	65	-0.10	0.37	-0.19	-0.03	0.02	-0.00
	66	-0.31	-0.04	-0.21	0.00	0.01	0.01
	67	-0.32	-0.23	-0.20	0.02	0.01	0.00
	68	-0.33	0.12	-0.21	-0.01	0.01	-0.00
	69	-0.33	-0.06	-0.21	0.00	0.01	-0.00
	70	0.10	-0.43	-0.17	0.03	0.03	0.00
	71	-0.09	-0.44	-0.19	0.03	0.02	0.00
	72	0.07	-0.22	-0.17	0.02	0.04	-0.01
	73	-0.12	-0.23	-0.19	0.02	0.02	-0.01
109	1	-0.00	-0.05	-0.26	0.01	-0.01	-0.00
	2	-0.00	-0.04	-0.25	0.01	-0.01	-0.00
	3	-0.00	-0.04	-0.25	0.01	-0.01	-0.00
	4	-0.00	-0.04	-0.25	0.01	-0.01	-0.00
	5	-0.00	-0.04	-0.25	0.01	-0.01	-0.00
	6	-0.00	-0.04	-0.25	0.01	-0.01	-0.00
	7	-0.00	-0.04	-0.21	0.01	-0.01	-0.00
	8	-0.00	-0.04	-0.29	0.01	-0.01	-0.00
	9	0.31	0.03	-0.17	-0.00	0.00	0.00
	10	0.31	-0.15	-0.17	0.01	0.00	0.00
	11	0.30	0.12	-0.17	-0.01	0.00	-0.00
	12	0.29	-0.06	-0.17	0.01	0.00	-0.01
	13	0.11	0.22	-0.17	-0.02	-0.01	0.01
	14	-0.07	0.21	-0.17	-0.02	-0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.08	0.33	-0.17	-0.03	-0.01	-0.00
	16	-0.10	0.32	-0.17	-0.03	-0.01	-0.00
	17	-0.30	0.00	-0.17	0.00	-0.02	0.01
	18	-0.30	-0.18	-0.17	0.02	-0.02	0.00
	19	-0.31	0.09	-0.17	-0.01	-0.02	-0.00
	20	-0.32	-0.09	-0.18	0.01	-0.02	-0.00
	21	0.10	-0.38	-0.17	0.03	-0.00	0.00
	22	-0.09	-0.39	-0.17	0.03	-0.01	0.00
	23	0.07	-0.27	-0.17	0.02	-0.00	-0.01
	24	-0.11	-0.28	-0.18	0.02	-0.01	-0.01
	25	-0.00	-0.04	-0.18	0.01	-0.01	-0.00
	26	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	27	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	28	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	29	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	30	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	31	-0.00	-0.03	-0.15	0.00	-0.01	-0.00
	32	-0.00	-0.03	-0.20	0.00	-0.01	-0.00
	33	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	34	-0.00	-0.03	-0.18	0.00	-0.01	-0.00
	35	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	36	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	37	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	38	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	39	-0.00	-0.03	-0.14	0.00	-0.01	-0.00
	40	-0.00	-0.03	-0.21	0.00	-0.01	-0.00
	41	-0.00	-0.03	-0.17	0.00	-0.01	-0.00
	42	0.28	0.03	-0.17	-0.00	-0.00	0.00
	43	0.28	-0.13	-0.17	0.01	0.00	0.00
	44	0.27	0.11	-0.17	-0.01	-0.00	-0.00
	45	0.27	-0.05	-0.17	0.01	-0.00	-0.01
	46	0.10	0.20	-0.17	-0.02	-0.01	0.01
	47	-0.07	0.19	-0.17	-0.01	-0.01	0.01
	48	0.08	0.30	-0.17	-0.02	-0.01	-0.00
	49	-0.09	0.29	-0.17	-0.02	-0.01	-0.00
	50	-0.27	0.00	-0.17	0.00	-0.01	0.01
	51	-0.27	-0.16	-0.17	0.01	-0.01	0.00
	52	-0.28	0.08	-0.17	-0.01	-0.02	-0.00
	53	-0.28	-0.08	-0.18	0.01	-0.01	-0.00
	54	0.09	-0.34	-0.17	0.03	-0.00	0.00
	55	-0.08	-0.35	-0.17	0.03	-0.01	0.00
	56	0.06	-0.24	-0.17	0.02	-0.00	-0.01
	57	-0.10	-0.25	-0.18	0.02	-0.01	-0.01
	58	0.33	0.04	-0.17	-0.00	0.00	0.00
	59	0.33	-0.15	-0.17	0.01	0.00	0.00
	60	0.31	0.13	-0.17	-0.01	0.00	-0.00
	61	0.31	-0.06	-0.17	0.01	0.00	-0.01
	62	0.12	0.24	-0.17	-0.02	-0.01	0.01
	63	-0.08	0.23	-0.17	-0.02	-0.01	0.01
	64	0.09	0.35	-0.17	-0.03	-0.01	-0.00
	65	-0.10	0.34	-0.17	-0.03	-0.01	-0.00
	66	-0.31	0.01	-0.17	0.00	-0.02	0.01
	67	-0.32	-0.18	-0.17	0.02	-0.02	0.00
	68	-0.33	0.10	-0.17	-0.01	-0.02	-0.00
	69	-0.33	-0.09	-0.18	0.01	-0.02	-0.00
	70	0.10	-0.40	-0.17	0.03	-0.00	0.00
	71	-0.09	-0.41	-0.17	0.03	-0.01	0.00
	72	0.07	-0.28	-0.17	0.02	-0.00	-0.01
	73	-0.12	-0.29	-0.18	0.03	-0.01	-0.01
110	1	-0.00	-0.05	-0.29	0.01	0.01	-0.00
	2	-0.00	-0.04	-0.28	0.01	0.01	-0.00
	3	-0.00	-0.04	-0.28	0.01	0.01	-0.00
	4	-0.00	-0.04	-0.28	0.01	0.01	-0.00
	5	-0.00	-0.04	-0.28	0.01	0.01	-0.00
	6	-0.00	-0.04	-0.28	0.01	0.01	-0.00
	7	-0.00	-0.04	-0.24	0.01	0.01	-0.00
	8	-0.00	-0.04	-0.32	0.01	0.01	-0.00
	9	0.31	0.06	-0.19	-0.00	0.01	0.00
	10	0.31	-0.13	-0.20	0.01	0.01	0.00
	11	0.30	0.05	-0.19	-0.00	0.01	-0.00
	12	0.29	-0.14	-0.20	0.01	0.01	-0.01
	13	0.11	0.28	-0.19	-0.02	0.01	0.01
	14	-0.07	0.29	-0.19	-0.02	0.00	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.08	0.29	-0.19	-0.02	0.01	-0.00
	16	-0.10	0.30	-0.19	-0.02	0.00	-0.00
	17	-0.30	0.09	-0.19	-0.01	-0.00	0.01
	18	-0.30	-0.10	-0.19	0.01	-0.00	0.00
	19	-0.31	0.07	-0.19	-0.00	-0.00	-0.00
	20	-0.32	-0.12	-0.19	0.01	-0.00	-0.00
	21	0.10	-0.35	-0.20	0.03	0.01	0.00
	22	-0.09	-0.34	-0.20	0.03	0.00	0.00
	23	0.07	-0.34	-0.20	0.03	0.01	-0.01
	24	-0.11	-0.34	-0.20	0.03	0.00	-0.01
	25	-0.00	-0.04	-0.21	0.01	0.00	-0.00
	26	-0.00	-0.03	-0.20	0.01	0.00	-0.00
	27	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	28	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	29	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	30	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	31	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	32	-0.00	-0.03	-0.22	0.00	0.00	-0.00
	33	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	34	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	35	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	36	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	37	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	38	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	39	-0.00	-0.03	-0.16	0.00	0.00	-0.00
	40	-0.00	-0.03	-0.23	0.00	0.00	-0.00
	41	-0.00	-0.03	-0.19	0.00	0.00	-0.00
	42	0.28	0.05	-0.19	-0.00	0.01	0.00
	43	0.28	-0.12	-0.20	0.01	0.01	0.00
	44	0.27	0.04	-0.19	-0.00	0.01	-0.00
	45	0.27	-0.13	-0.20	0.01	0.01	-0.01
	46	0.10	0.25	-0.19	-0.02	0.01	0.01
	47	-0.07	0.26	-0.19	-0.02	0.00	0.01
	48	0.08	0.26	-0.19	-0.02	0.01	-0.00
	49	-0.09	0.26	-0.19	-0.02	0.00	-0.00
	50	-0.27	0.08	-0.19	-0.00	-0.00	0.01
	51	-0.27	-0.09	-0.19	0.01	-0.00	0.00
	52	-0.28	0.06	-0.19	-0.00	-0.00	-0.00
	53	-0.28	-0.11	-0.19	0.01	-0.00	-0.00
	54	0.09	-0.32	-0.20	0.03	0.01	0.00
	55	-0.08	-0.31	-0.20	0.03	0.00	0.00
	56	0.06	-0.31	-0.20	0.03	0.01	-0.01
	57	-0.10	-0.30	-0.20	0.03	0.00	-0.01
	58	0.33	0.06	-0.19	-0.00	0.01	0.00
	59	0.33	-0.13	-0.20	0.01	0.01	0.00
	60	0.31	0.05	-0.19	-0.00	0.01	-0.00
	61	0.31	-0.15	-0.20	0.02	0.01	-0.01
	62	0.12	0.30	-0.19	-0.02	0.01	0.01
	63	-0.08	0.31	-0.19	-0.02	0.00	0.01
	64	0.09	0.30	-0.19	-0.02	0.01	-0.00
	65	-0.10	0.31	-0.19	-0.02	0.00	-0.00
	66	-0.31	0.10	-0.19	-0.01	-0.00	0.01
	67	-0.32	-0.10	-0.19	0.01	-0.00	0.00
	68	-0.33	0.08	-0.19	-0.00	-0.00	-0.00
	69	-0.33	-0.12	-0.19	0.01	-0.00	-0.00
	70	0.10	-0.37	-0.20	0.03	0.01	0.00
	71	-0.09	-0.36	-0.20	0.03	0.00	0.00
	72	0.07	-0.36	-0.20	0.03	0.01	-0.01
	73	-0.12	-0.35	-0.20	0.03	0.00	-0.01
112	1	-0.00	-0.05	-0.26	0.01	0.00	-0.00
	2	-0.00	-0.04	-0.25	0.01	0.00	-0.00
	3	-0.00	-0.04	-0.24	0.01	0.00	-0.00
	4	-0.00	-0.04	-0.24	0.01	0.00	-0.00
	5	-0.00	-0.04	-0.24	0.01	0.00	-0.00
	6	-0.00	-0.04	-0.24	0.01	0.00	-0.00
	7	-0.00	-0.04	-0.20	0.01	0.00	-0.00
	8	-0.00	-0.04	-0.29	0.01	0.00	-0.00
	9	0.31	0.10	-0.17	-0.01	0.01	0.00
	10	0.31	-0.11	-0.17	0.01	0.01	0.00
	11	0.30	0.02	-0.17	-0.00	0.01	-0.00
	12	0.29	-0.18	-0.17	0.02	0.01	-0.01
	13	0.11	0.35	-0.17	-0.03	0.01	0.01
	14	-0.07	0.36	-0.17	-0.03	0.00	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.08	0.26	-0.17	-0.02	0.01	-0.00
	16	-0.10	0.27	-0.17	-0.02	0.00	-0.00
	17	-0.30	0.12	-0.17	-0.01	-0.01	0.01
	18	-0.30	-0.08	-0.17	0.01	-0.00	0.00
	19	-0.31	0.05	-0.17	-0.00	-0.01	-0.00
	20	-0.32	-0.15	-0.18	0.01	-0.00	-0.00
	21	0.10	-0.32	-0.17	0.03	0.01	0.00
	22	-0.09	-0.31	-0.17	0.03	0.00	0.00
	23	0.07	-0.41	-0.17	0.04	0.01	-0.01
	24	-0.11	-0.41	-0.17	0.04	0.00	-0.01
	25	-0.00	-0.04	-0.18	0.01	0.00	-0.00
	26	-0.00	-0.03	-0.18	0.00	0.00	-0.00
	27	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	28	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	29	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	30	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	31	-0.00	-0.03	-0.15	0.00	0.00	-0.00
	32	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	33	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	34	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	35	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	36	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	37	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	38	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	39	-0.00	-0.03	-0.14	0.00	0.00	-0.00
	40	-0.00	-0.03	-0.20	0.00	0.00	-0.00
	41	-0.00	-0.03	-0.17	0.00	0.00	-0.00
	42	0.28	0.08	-0.17	-0.01	0.01	0.00
	43	0.28	-0.10	-0.17	0.01	0.01	0.00
	44	0.27	0.02	-0.17	-0.00	0.01	-0.00
	45	0.27	-0.16	-0.17	0.02	0.01	-0.01
	46	0.10	0.31	-0.17	-0.02	0.00	0.01
	47	-0.07	0.32	-0.17	-0.02	0.00	0.01
	48	0.08	0.23	-0.17	-0.02	0.01	-0.00
	49	-0.09	0.24	-0.17	-0.02	0.00	-0.00
	50	-0.27	0.11	-0.17	-0.01	-0.00	0.01
	51	-0.27	-0.07	-0.17	0.01	-0.00	0.00
	52	-0.28	0.04	-0.17	-0.00	-0.00	-0.00
	53	-0.28	-0.14	-0.17	0.01	-0.00	-0.00
	54	0.09	-0.29	-0.17	0.03	0.01	0.00
	55	-0.08	-0.29	-0.17	0.03	0.00	0.00
	56	0.06	-0.38	-0.17	0.03	0.01	-0.01
	57	-0.10	-0.37	-0.17	0.03	0.00	-0.01
	58	0.33	0.10	-0.17	-0.01	0.01	0.00
	59	0.33	-0.11	-0.17	0.01	0.01	0.00
	60	0.31	0.02	-0.17	-0.00	0.01	-0.00
	61	0.31	-0.19	-0.17	0.02	0.01	-0.01
	62	0.12	0.37	-0.17	-0.03	0.01	0.01
	63	-0.08	0.38	-0.17	-0.03	0.00	0.01
	64	0.09	0.27	-0.17	-0.02	0.01	-0.00
	65	-0.10	0.28	-0.17	-0.02	0.00	-0.00
	66	-0.31	0.13	-0.17	-0.01	-0.01	0.01
	67	-0.32	-0.08	-0.17	0.01	-0.01	0.00
	68	-0.33	0.05	-0.17	-0.00	-0.01	-0.00
	69	-0.33	-0.16	-0.18	0.02	-0.01	-0.00
	70	0.10	-0.34	-0.17	0.03	0.01	0.00
	71	-0.09	-0.33	-0.17	0.03	0.00	0.00
	72	0.07	-0.43	-0.17	0.04	0.01	-0.01
	73	-0.12	-0.43	-0.17	0.04	0.00	-0.01
113	1	-0.00	-0.05	-0.29	0.00	-0.04	-0.00
	2	-0.00	-0.04	-0.27	0.00	-0.04	-0.00
	3	-0.00	-0.04	-0.26	0.00	-0.04	-0.00
	4	-0.00	-0.04	-0.26	0.00	-0.04	-0.00
	5	-0.00	-0.04	-0.26	0.00	-0.04	-0.00
	6	-0.00	-0.04	-0.26	0.00	-0.04	-0.00
	7	-0.00	-0.04	-0.22	0.00	-0.04	-0.00
	8	-0.00	-0.04	-0.30	0.00	-0.04	-0.00
	9	0.31	0.13	-0.21	-0.01	-0.01	0.00
	10	0.31	-0.09	-0.21	0.01	-0.01	0.00
	11	0.30	-0.02	-0.21	0.00	-0.01	-0.00
	12	0.29	-0.23	-0.22	0.02	-0.01	-0.01
	13	0.11	0.42	-0.18	-0.03	-0.02	0.01
	14	-0.07	0.43	-0.17	-0.03	-0.03	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.08	0.22	-0.19	-0.02	-0.02	-0.00
	16	-0.10	0.24	-0.17	-0.02	-0.03	-0.00
	17	-0.30	0.17	-0.15	-0.02	-0.05	0.01
	18	-0.30	-0.04	-0.16	0.00	-0.05	0.00
	19	-0.31	0.03	-0.15	-0.01	-0.05	-0.00
	20	-0.32	-0.19	-0.16	0.01	-0.05	-0.00
	21	0.10	-0.30	-0.20	0.02	-0.02	0.00
	22	-0.09	-0.28	-0.18	0.02	-0.03	0.00
	23	0.07	-0.49	-0.20	0.04	-0.02	-0.01
	24	-0.11	-0.48	-0.18	0.04	-0.03	-0.01
	25	-0.00	-0.04	-0.21	0.00	-0.02	-0.00
	26	-0.00	-0.03	-0.19	0.00	-0.03	-0.00
	27	-0.00	-0.03	-0.19	0.00	-0.03	-0.00
	28	-0.00	-0.03	-0.19	0.00	-0.03	-0.00
	29	-0.00	-0.03	-0.19	0.00	-0.03	-0.00
	30	-0.00	-0.03	-0.19	0.00	-0.03	-0.00
	31	-0.00	-0.03	-0.16	0.00	-0.03	-0.00
	32	-0.00	-0.03	-0.21	0.00	-0.03	-0.00
	33	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	34	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	35	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	36	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	37	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	38	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	39	-0.00	-0.03	-0.15	0.00	-0.03	-0.00
	40	-0.00	-0.03	-0.22	0.00	-0.03	-0.00
	41	-0.00	-0.03	-0.18	0.00	-0.03	-0.00
	42	0.28	0.11	-0.21	-0.01	-0.01	0.00
	43	0.28	-0.08	-0.21	0.01	-0.01	0.00
	44	0.27	-0.02	-0.21	0.00	-0.01	-0.00
	45	0.27	-0.21	-0.21	0.02	-0.01	-0.01
	46	0.10	0.37	-0.18	-0.03	-0.02	0.01
	47	-0.07	0.39	-0.17	-0.03	-0.03	0.01
	48	0.08	0.20	-0.19	-0.02	-0.02	-0.00
	49	-0.09	0.21	-0.17	-0.02	-0.03	-0.00
	50	-0.27	0.15	-0.16	-0.01	-0.04	0.01
	51	-0.27	-0.04	-0.16	0.00	-0.04	0.00
	52	-0.28	0.02	-0.16	-0.01	-0.04	-0.00
	53	-0.28	-0.17	-0.16	0.01	-0.04	-0.00
	54	0.09	-0.27	-0.20	0.02	-0.02	0.00
	55	-0.08	-0.26	-0.18	0.02	-0.03	0.00
	56	0.06	-0.45	-0.20	0.03	-0.02	-0.01
	57	-0.10	-0.43	-0.18	0.03	-0.03	-0.01
	58	0.33	0.14	-0.21	-0.01	-0.01	0.00
	59	0.33	-0.09	-0.22	0.01	-0.01	0.00
	60	0.31	-0.02	-0.21	0.00	-0.01	-0.00
	61	0.31	-0.24	-0.22	0.02	-0.01	-0.01
	62	0.12	0.44	-0.18	-0.03	-0.02	0.01
	63	-0.08	0.46	-0.16	-0.04	-0.03	0.01
	64	0.09	0.24	-0.19	-0.02	-0.02	-0.00
	65	-0.10	0.25	-0.17	-0.02	-0.03	-0.00
	66	-0.31	0.18	-0.15	-0.02	-0.05	0.01
	67	-0.32	-0.04	-0.16	0.00	-0.05	0.00
	68	-0.33	0.03	-0.15	-0.01	-0.05	-0.00
	69	-0.33	-0.19	-0.16	0.01	-0.05	-0.00
	70	0.10	-0.31	-0.20	0.02	-0.02	0.00
	71	-0.09	-0.30	-0.18	0.02	-0.03	0.00
	72	0.07	-0.52	-0.20	0.04	-0.02	-0.01
	73	-0.12	-0.50	-0.18	0.04	-0.03	-0.01
114	1	-0.00	-0.05	-0.32	0.01	0.04	-0.00
	2	-0.00	-0.04	-0.29	0.01	0.04	-0.00
	3	-0.00	-0.04	-0.28	0.01	0.03	-0.00
	4	-0.00	-0.04	-0.28	0.01	0.03	-0.00
	5	-0.00	-0.04	-0.28	0.01	0.03	-0.00
	6	-0.00	-0.04	-0.28	0.01	0.03	-0.00
	7	-0.00	-0.04	-0.24	0.01	0.03	-0.00
	8	-0.00	-0.04	-0.32	0.01	0.03	-0.00
	9	0.28	0.01	-0.17	0.00	0.03	0.00
	10	0.29	-0.17	-0.13	0.02	0.04	0.00
	11	0.34	0.16	-0.20	-0.02	0.04	-0.00
	12	0.35	-0.01	-0.16	0.00	0.04	-0.01
	13	0.02	0.17	-0.24	-0.02	0.02	0.01
	14	-0.17	0.16	-0.26	-0.01	0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.12	0.37	-0.27	-0.04	0.02	-0.00
	16	-0.07	0.35	-0.29	-0.04	0.02	-0.00
	17	-0.35	-0.04	-0.24	0.01	0.01	0.01
	18	-0.34	-0.22	-0.20	0.03	0.01	0.00
	19	-0.29	0.11	-0.26	-0.01	0.01	-0.00
	20	-0.28	-0.06	-0.22	0.01	0.01	-0.00
	21	0.06	-0.41	-0.10	0.05	0.03	0.00
	22	-0.12	-0.42	-0.12	0.05	0.02	0.00
	23	0.17	-0.21	-0.14	0.03	0.03	-0.01
	24	-0.02	-0.23	-0.16	0.03	0.02	-0.01
	25	-0.00	-0.04	-0.22	0.01	0.03	-0.00
	26	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	27	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	28	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	29	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	30	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	31	-0.00	-0.03	-0.17	0.01	0.02	-0.00
	32	-0.00	-0.03	-0.23	0.01	0.02	-0.00
	33	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	34	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	35	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	36	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	37	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	38	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	39	-0.00	-0.03	-0.16	0.01	0.02	-0.00
	40	-0.00	-0.03	-0.23	0.01	0.02	-0.00
	41	-0.00	-0.03	-0.20	0.01	0.02	-0.00
	42	0.25	0.00	-0.18	0.00	0.03	0.00
	43	0.26	-0.15	-0.14	0.02	0.04	0.00
	44	0.30	0.14	-0.20	-0.01	0.03	-0.00
	45	0.31	-0.01	-0.16	0.00	0.04	-0.01
	46	0.02	0.15	-0.23	-0.01	0.02	0.01
	47	-0.15	0.14	-0.25	-0.01	0.02	0.01
	48	0.11	0.33	-0.26	-0.03	0.02	-0.00
	49	-0.06	0.32	-0.28	-0.03	0.02	-0.00
	50	-0.31	-0.04	-0.23	0.01	0.01	0.01
	51	-0.30	-0.20	-0.20	0.03	0.01	0.00
	52	-0.26	0.10	-0.25	-0.01	0.01	-0.00
	53	-0.25	-0.06	-0.22	0.01	0.01	-0.00
	54	0.06	-0.37	-0.11	0.04	0.03	0.00
	55	-0.11	-0.38	-0.13	0.05	0.02	0.00
	56	0.15	-0.19	-0.14	0.02	0.03	-0.01
	57	-0.02	-0.20	-0.16	0.03	0.02	-0.01
	58	0.29	0.01	-0.17	0.00	0.04	0.00
	59	0.31	-0.17	-0.13	0.02	0.04	0.00
	60	0.35	0.17	-0.20	-0.02	0.04	-0.00
	61	0.37	-0.01	-0.15	0.00	0.04	-0.01
	62	0.02	0.18	-0.24	-0.02	0.02	0.01
	63	-0.18	0.17	-0.26	-0.02	0.01	0.01
	64	0.13	0.39	-0.27	-0.04	0.02	-0.00
	65	-0.07	0.37	-0.30	-0.04	0.02	-0.00
	66	-0.37	-0.04	-0.24	0.01	0.01	0.01
	67	-0.35	-0.23	-0.20	0.03	0.01	0.00
	68	-0.31	0.12	-0.26	-0.01	0.01	-0.00
	69	-0.29	-0.06	-0.22	0.01	0.01	-0.00
	70	0.07	-0.43	-0.10	0.05	0.03	0.00
	71	-0.13	-0.44	-0.12	0.05	0.02	0.00
	72	0.18	-0.22	-0.13	0.03	0.03	-0.01
	73	-0.02	-0.23	-0.15	0.03	0.02	-0.01
115	1	-0.00	-0.05	-0.29	-0.01	-0.01	-0.00
	2	-0.00	-0.04	-0.27	-0.00	-0.01	-0.00
	3	-0.00	-0.04	-0.26	-0.00	-0.01	-0.00
	4	-0.00	-0.04	-0.26	-0.00	-0.01	-0.00
	5	-0.00	-0.04	-0.26	-0.00	-0.01	-0.00
	6	-0.00	-0.04	-0.26	-0.00	-0.01	-0.00
	7	-0.00	-0.04	-0.22	-0.00	-0.01	-0.00
	8	-0.00	-0.04	-0.31	-0.00	-0.01	-0.00
	9	0.28	0.03	-0.18	-0.00	0.02	0.00
	10	0.29	-0.15	-0.16	0.00	0.02	0.00
	11	0.34	0.12	-0.19	-0.00	0.02	-0.00
	12	0.35	-0.06	-0.17	0.00	0.02	-0.01
	13	0.02	0.22	-0.21	-0.01	-0.00	0.01
	14	-0.17	0.21	-0.21	-0.01	-0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.12	0.33	-0.22	-0.02	0.00	-0.00
	16	-0.07	0.32	-0.22	-0.02	-0.01	-0.00
	17	-0.35	0.00	-0.20	-0.01	-0.03	0.01
	18	-0.34	-0.18	-0.18	0.00	-0.03	0.00
	19	-0.29	0.09	-0.20	-0.01	-0.03	-0.00
	20	-0.28	-0.09	-0.18	0.00	-0.03	-0.00
	21	0.06	-0.38	-0.15	0.01	0.00	0.00
	22	-0.12	-0.39	-0.15	0.01	-0.01	0.00
	23	0.17	-0.27	-0.16	0.01	0.01	-0.01
	24	-0.02	-0.28	-0.16	0.01	-0.01	-0.01
	25	-0.00	-0.04	-0.20	-0.01	-0.01	-0.00
	26	-0.00	-0.03	-0.19	-0.00	-0.01	-0.00
	27	-0.00	-0.03	-0.19	-0.00	-0.01	-0.00
	28	-0.00	-0.03	-0.19	-0.00	-0.01	-0.00
	29	-0.00	-0.03	-0.19	-0.00	-0.01	-0.00
	30	-0.00	-0.03	-0.19	-0.00	-0.01	-0.00
	31	-0.00	-0.03	-0.16	-0.00	-0.01	-0.00
	32	-0.00	-0.03	-0.21	-0.00	-0.01	-0.00
	33	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	34	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	35	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	36	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	37	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	38	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	39	-0.00	-0.03	-0.15	-0.00	-0.01	-0.00
	40	-0.00	-0.03	-0.22	-0.00	-0.01	-0.00
	41	-0.00	-0.03	-0.18	-0.00	-0.01	-0.00
	42	0.25	0.03	-0.18	-0.00	0.01	0.00
	43	0.26	-0.13	-0.17	0.00	0.02	0.00
	44	0.30	0.11	-0.19	-0.00	0.02	-0.00
	45	0.31	-0.05	-0.17	0.00	0.02	-0.01
	46	0.02	0.20	-0.20	-0.01	-0.00	0.01
	47	-0.15	0.19	-0.21	-0.01	-0.02	0.01
	48	0.11	0.30	-0.21	-0.01	0.00	-0.00
	49	-0.06	0.29	-0.22	-0.01	-0.01	-0.00
	50	-0.31	0.00	-0.20	-0.01	-0.03	0.01
	51	-0.30	-0.16	-0.18	0.00	-0.03	0.00
	52	-0.26	0.08	-0.20	-0.01	-0.03	-0.00
	53	-0.25	-0.08	-0.18	0.00	-0.02	-0.00
	54	0.06	-0.34	-0.15	0.01	0.00	0.00
	55	-0.11	-0.35	-0.15	0.01	-0.01	0.00
	56	0.15	-0.24	-0.16	0.01	0.01	-0.01
	57	-0.02	-0.25	-0.16	0.01	-0.01	-0.01
	58	0.29	0.04	-0.18	-0.00	0.02	0.00
	59	0.31	-0.15	-0.16	0.01	0.02	0.00
	60	0.35	0.13	-0.19	-0.00	0.02	-0.00
	61	0.37	-0.06	-0.17	0.00	0.02	-0.01
	62	0.02	0.24	-0.21	-0.01	-0.00	0.01
	63	-0.18	0.23	-0.21	-0.01	-0.02	0.01
	64	0.13	0.35	-0.22	-0.02	0.00	-0.00
	65	-0.07	0.34	-0.22	-0.02	-0.01	-0.00
	66	-0.37	0.01	-0.20	-0.01	-0.03	0.01
	67	-0.35	-0.18	-0.18	0.00	-0.03	0.00
	68	-0.31	0.10	-0.20	-0.01	-0.03	-0.00
	69	-0.29	-0.09	-0.18	0.00	-0.03	-0.00
	70	0.07	-0.40	-0.14	0.01	0.00	0.00
	71	-0.13	-0.41	-0.15	0.01	-0.01	0.00
	72	0.18	-0.28	-0.15	0.01	0.01	-0.01
	73	-0.02	-0.29	-0.16	0.01	-0.01	-0.01
116	1	-0.00	-0.05	-0.29	-0.01	0.00	-0.00
	2	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	3	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	4	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	5	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	6	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	7	-0.00	-0.04	-0.22	-0.00	0.00	-0.00
	8	-0.00	-0.04	-0.31	-0.00	0.00	-0.00
	9	0.28	0.06	-0.19	-0.00	0.02	0.00
	10	0.29	-0.13	-0.18	0.00	0.02	0.00
	11	0.34	0.05	-0.20	-0.00	0.03	-0.00
	12	0.35	-0.14	-0.18	0.00	0.03	-0.01
	13	0.02	0.28	-0.21	-0.01	0.00	0.01
	14	-0.17	0.29	-0.21	-0.01	-0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.12	0.29	-0.21	-0.01	0.01	-0.00
	16	-0.07	0.30	-0.21	-0.01	-0.00	-0.00
	17	-0.35	0.09	-0.19	-0.00	-0.02	0.01
	18	-0.34	-0.10	-0.17	0.00	-0.02	0.00
	19	-0.29	0.07	-0.19	-0.00	-0.02	-0.00
	20	-0.28	-0.12	-0.17	0.00	-0.02	-0.00
	21	0.06	-0.35	-0.16	0.01	0.01	0.00
	22	-0.12	-0.34	-0.15	0.01	-0.01	0.00
	23	0.17	-0.34	-0.16	0.01	0.01	-0.01
	24	-0.02	-0.34	-0.16	0.01	0.00	-0.01
	25	-0.00	-0.04	-0.20	-0.01	0.00	-0.00
	26	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	27	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	28	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	29	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	30	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	31	-0.00	-0.03	-0.16	-0.00	0.00	-0.00
	32	-0.00	-0.03	-0.21	-0.00	0.00	-0.00
	33	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	34	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	35	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	36	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	37	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	38	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	39	-0.00	-0.03	-0.15	-0.00	0.00	-0.00
	40	-0.00	-0.03	-0.22	-0.00	0.00	-0.00
	41	-0.00	-0.03	-0.18	-0.00	0.00	-0.00
	42	0.25	0.05	-0.19	-0.00	0.02	0.00
	43	0.26	-0.12	-0.18	0.00	0.02	0.00
	44	0.30	0.04	-0.20	-0.00	0.02	-0.00
	45	0.31	-0.13	-0.18	0.00	0.02	-0.01
	46	0.02	0.25	-0.21	-0.01	0.00	0.01
	47	-0.15	0.26	-0.21	-0.01	-0.01	0.01
	48	0.11	0.26	-0.21	-0.01	0.01	-0.00
	49	-0.06	0.26	-0.21	-0.01	-0.00	-0.00
	50	-0.31	0.08	-0.19	-0.00	-0.02	0.01
	51	-0.30	-0.09	-0.17	0.00	-0.02	0.00
	52	-0.26	0.06	-0.19	-0.00	-0.02	-0.00
	53	-0.25	-0.11	-0.17	0.00	-0.02	-0.00
	54	0.06	-0.32	-0.16	0.01	0.01	0.00
	55	-0.11	-0.31	-0.16	0.01	-0.01	0.00
	56	0.15	-0.31	-0.16	0.01	0.01	-0.01
	57	-0.02	-0.30	-0.16	0.01	0.00	-0.01
	58	0.29	0.06	-0.19	-0.00	0.02	0.00
	59	0.31	-0.13	-0.18	0.00	0.02	0.00
	60	0.35	0.05	-0.20	-0.00	0.03	-0.00
	61	0.37	-0.15	-0.18	0.00	0.03	-0.01
	62	0.02	0.30	-0.21	-0.01	0.00	0.01
	63	-0.18	0.31	-0.21	-0.01	-0.01	0.01
	64	0.13	0.30	-0.21	-0.01	0.01	-0.00
	65	-0.07	0.31	-0.21	-0.01	-0.00	-0.00
	66	-0.37	0.10	-0.19	-0.01	-0.02	0.01
	67	-0.35	-0.10	-0.17	0.00	-0.02	0.00
	68	-0.31	0.08	-0.19	-0.00	-0.02	-0.00
	69	-0.29	-0.12	-0.17	0.00	-0.02	-0.00
	70	0.07	-0.37	-0.15	0.01	0.01	0.00
	71	-0.13	-0.36	-0.15	0.01	-0.01	0.00
	72	0.18	-0.36	-0.16	0.01	0.01	-0.01
	73	-0.02	-0.35	-0.16	0.01	0.00	-0.01
117	1	-0.00	-0.05	-0.29	-0.01	0.01	-0.00
	2	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	3	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	4	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	5	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	6	-0.00	-0.04	-0.27	-0.00	0.00	-0.00
	7	-0.00	-0.04	-0.23	-0.00	0.00	-0.00
	8	-0.00	-0.04	-0.31	-0.00	0.00	-0.00
	9	0.28	0.10	-0.20	-0.01	0.03	0.00
	10	0.29	-0.11	-0.18	0.00	0.03	0.00
	11	0.34	0.02	-0.20	-0.01	0.03	-0.00
	12	0.35	-0.18	-0.18	0.00	0.03	-0.01
	13	0.02	0.35	-0.22	-0.02	0.01	0.01
	14	-0.17	0.36	-0.22	-0.02	-0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.12	0.26	-0.22	-0.01	0.01	-0.00
	16	-0.07	0.27	-0.21	-0.01	-0.00	-0.00
	17	-0.35	0.12	-0.19	-0.01	-0.02	0.01
	18	-0.34	-0.08	-0.17	0.00	-0.02	0.00
	19	-0.29	0.05	-0.19	-0.00	-0.02	-0.00
	20	-0.28	-0.15	-0.17	0.00	-0.02	-0.00
	21	0.06	-0.32	-0.16	0.01	0.01	0.00
	22	-0.12	-0.31	-0.16	0.01	-0.01	0.00
	23	0.17	-0.41	-0.15	0.01	0.01	-0.01
	24	-0.02	-0.41	-0.15	0.01	-0.00	-0.01
	25	-0.00	-0.04	-0.21	-0.01	0.00	-0.00
	26	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	27	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	28	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	29	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	30	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	31	-0.00	-0.03	-0.16	-0.00	0.00	-0.00
	32	-0.00	-0.03	-0.22	-0.00	0.00	-0.00
	33	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	34	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	35	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	36	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	37	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	38	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	39	-0.00	-0.03	-0.15	-0.00	0.00	-0.00
	40	-0.00	-0.03	-0.22	-0.00	0.00	-0.00
	41	-0.00	-0.03	-0.19	-0.00	0.00	-0.00
	42	0.25	0.08	-0.20	-0.01	0.02	0.00
	43	0.26	-0.10	-0.18	0.00	0.02	0.00
	44	0.30	0.02	-0.20	-0.01	0.03	-0.00
	45	0.31	-0.16	-0.18	0.00	0.03	-0.01
	46	0.02	0.31	-0.22	-0.02	0.01	0.01
	47	-0.15	0.32	-0.22	-0.02	-0.01	0.01
	48	0.11	0.23	-0.21	-0.01	0.01	-0.00
	49	-0.06	0.24	-0.21	-0.01	-0.00	-0.00
	50	-0.31	0.11	-0.19	-0.00	-0.02	0.01
	51	-0.30	-0.07	-0.17	0.00	-0.02	0.00
	52	-0.26	0.04	-0.19	-0.00	-0.02	-0.00
	53	-0.25	-0.14	-0.17	0.00	-0.02	-0.00
	54	0.06	-0.29	-0.16	0.01	0.01	0.00
	55	-0.11	-0.29	-0.16	0.01	-0.01	0.00
	56	0.15	-0.38	-0.16	0.01	0.01	-0.01
	57	-0.02	-0.37	-0.15	0.01	-0.00	-0.01
	58	0.29	0.10	-0.20	-0.01	0.03	0.00
	59	0.31	-0.11	-0.18	0.00	0.03	0.00
	60	0.35	0.02	-0.20	-0.01	0.03	-0.00
	61	0.37	-0.19	-0.18	0.00	0.03	-0.01
	62	0.02	0.37	-0.22	-0.02	0.01	0.01
	63	-0.18	0.38	-0.22	-0.02	-0.01	0.01
	64	0.13	0.27	-0.22	-0.02	0.01	-0.00
	65	-0.07	0.28	-0.21	-0.01	-0.00	-0.00
	66	-0.37	0.13	-0.19	-0.01	-0.03	0.01
	67	-0.35	-0.08	-0.17	0.00	-0.02	0.00
	68	-0.31	0.05	-0.19	-0.00	-0.02	-0.00
	69	-0.29	-0.16	-0.17	0.00	-0.02	-0.00
	70	0.07	-0.34	-0.16	0.01	0.01	0.00
	71	-0.13	-0.33	-0.15	0.01	-0.01	0.00
	72	0.18	-0.43	-0.15	0.01	0.01	-0.01
	73	-0.02	-0.43	-0.15	0.02	-0.00	-0.01
118	1	-0.00	-0.05	-0.32	0.01	-0.04	-0.00
	2	-0.00	-0.04	-0.29	0.01	-0.04	-0.00
	3	-0.00	-0.04	-0.28	0.01	-0.04	-0.00
	4	-0.00	-0.04	-0.28	0.01	-0.04	-0.00
	5	-0.00	-0.04	-0.28	0.01	-0.04	-0.00
	6	-0.00	-0.04	-0.28	0.01	-0.04	-0.00
	7	-0.00	-0.04	-0.24	0.01	-0.04	-0.00
	8	-0.00	-0.04	-0.32	0.01	-0.04	-0.00
	9	0.28	0.13	-0.26	-0.01	-0.01	0.00
	10	0.29	-0.09	-0.21	0.01	-0.01	0.00
	11	0.34	-0.02	-0.24	0.01	-0.01	-0.00
	12	0.35	-0.23	-0.19	0.03	-0.01	-0.01
	13	0.02	0.42	-0.30	-0.04	-0.02	0.01
	14	-0.17	0.43	-0.28	-0.05	-0.02	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	15	0.12	0.22	-0.27	-0.02	-0.02	-0.00
	16	-0.07	0.24	-0.25	-0.02	-0.02	-0.00
	17	-0.35	0.17	-0.20	-0.02	-0.04	0.01
	18	-0.34	-0.04	-0.15	0.01	-0.04	0.00
	19	-0.29	0.03	-0.18	0.00	-0.04	-0.00
	20	-0.28	-0.19	-0.13	0.02	-0.04	-0.00
	21	0.06	-0.30	-0.14	0.04	-0.02	0.00
	22	-0.12	-0.28	-0.13	0.04	-0.03	0.00
	23	0.17	-0.49	-0.11	0.06	-0.02	-0.01
	24	-0.02	-0.48	-0.09	0.06	-0.03	-0.01
	25	-0.00	-0.04	-0.22	0.01	-0.03	-0.00
	26	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	27	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	28	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	29	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	30	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	31	-0.00	-0.03	-0.17	0.01	-0.02	-0.00
	32	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	33	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	34	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	35	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	36	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	37	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	38	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	39	-0.00	-0.03	-0.16	0.01	-0.02	-0.00
	40	-0.00	-0.03	-0.23	0.01	-0.02	-0.00
	41	-0.00	-0.03	-0.20	0.01	-0.02	-0.00
	42	0.25	0.11	-0.25	-0.01	-0.01	0.00
	43	0.26	-0.08	-0.21	0.01	-0.01	0.00
	44	0.30	-0.02	-0.24	0.01	-0.01	-0.00
	45	0.31	-0.21	-0.19	0.03	-0.01	-0.01
	46	0.02	0.37	-0.29	-0.04	-0.02	0.01
	47	-0.15	0.39	-0.27	-0.04	-0.02	0.01
	48	0.11	0.20	-0.26	-0.02	-0.02	-0.00
	49	-0.06	0.21	-0.24	-0.02	-0.02	-0.00
	50	-0.31	0.15	-0.20	-0.01	-0.03	0.01
	51	-0.30	-0.04	-0.16	0.01	-0.04	0.00
	52	-0.26	0.02	-0.18	0.00	-0.03	-0.00
	53	-0.25	-0.17	-0.14	0.02	-0.04	-0.00
	54	0.06	-0.27	-0.15	0.03	-0.02	0.00
	55	-0.11	-0.26	-0.13	0.03	-0.03	0.00
	56	0.15	-0.45	-0.12	0.05	-0.02	-0.01
	57	-0.02	-0.43	-0.10	0.05	-0.03	-0.01
	58	0.29	0.14	-0.26	-0.01	-0.01	0.00
	59	0.31	-0.09	-0.22	0.01	-0.01	0.00
	60	0.35	-0.02	-0.24	0.01	-0.01	-0.00
	61	0.37	-0.24	-0.19	0.03	-0.01	-0.01
	62	0.02	0.44	-0.30	-0.05	-0.02	0.01
	63	-0.18	0.46	-0.28	-0.05	-0.03	0.01
	64	0.13	0.24	-0.27	-0.02	-0.02	-0.00
	65	-0.07	0.25	-0.25	-0.03	-0.02	-0.00
	66	-0.37	0.18	-0.20	-0.02	-0.04	0.01
	67	-0.35	-0.04	-0.15	0.01	-0.04	0.00
	68	-0.31	0.03	-0.18	-0.00	-0.04	-0.00
	69	-0.29	-0.19	-0.13	0.03	-0.04	-0.00
	70	0.07	-0.31	-0.14	0.04	-0.02	0.00
	71	-0.13	-0.30	-0.12	0.04	-0.03	0.00
	72	0.18	-0.52	-0.11	0.06	-0.02	-0.01
	73	-0.02	-0.50	-0.09	0.06	-0.03	-0.01

Pressioni sul terreno

Convenzioni adottate

Nel seguito vengono riportate le pressioni trasmesse al terreno dalla struttura in corrispondenza dei nodi di fondazione.

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
1	1	0.00	0.00	0.00	1.0
	2				0.9
	3				0.9

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.9
	5				0.9
	6				0.9
	7				0.9
	8				0.9
	9				0.5
	10				0.6
	11				0.4
	12				0.5
	13				0.4
	14				0.5
	15				0.3
	16				0.3
	17				0.7
	18				0.8
	19				0.6
	20				0.7
	21				0.9
	22				0.9
	23				0.7
	24				0.8
	25				0.7
	26				0.6
	27				0.6
	28				0.6
	29				0.6
	30				0.6
	31				0.6
	32				0.6
	33				0.6
	34				0.6
	35				0.6
	36				0.6
	37				0.6
	38				0.6
	39				0.6
	40				0.6
	41				0.6
	42				0.5
	43				0.6
	44				0.4
	45				0.5
	46				0.4
	47				0.5
	48				0.3
	49				0.4
	50				0.7
	51				0.8
	52				0.6
	53				0.7
	54				0.8
	55				0.9
	56				0.7
	57				0.8
	58				0.5
	59				0.6
	60				0.4
	61				0.5
	62				0.4
	63				0.5
	64				0.3
	65				0.3
	66				0.7
	67				0.8
	68				0.6
	69				0.7
	70				0.9
	71				1.0
	72				0.7
	73				0.8
2	1	3.77	0.00	0.00	1.1
	2				1.0
	3				1.0

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				1.0
	5				1.0
	6				1.0
	7				1.0
	8				1.0
	9				0.6
	10				0.7
	11				0.5
	12				0.6
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.7
	18				0.8
	19				0.7
	20				0.8
	21				0.8
	22				0.9
	23				0.8
	24				0.8
	25				0.8
	26				0.7
	27				0.7
	28				0.7
	29				0.7
	30				0.7
	31				0.7
	32				0.7
	33				0.7
	34				0.7
	35				0.7
	36				0.7
	37				0.7
	38				0.7
	39				0.7
	40				0.7
	41				0.7
	42				0.6
	43				0.7
	44				0.5
	45				0.6
	46				0.5
	47				0.6
	48				0.5
	49				0.5
	50				0.7
	51				0.8
	52				0.7
	53				0.7
	54				0.8
	55				0.8
	56				0.8
	57				0.8
	58				0.6
	59				0.7
	60				0.5
	61				0.6
	62				0.5
	63				0.5
	64				0.4
	65				0.5
	66				0.7
	67				0.8
	68				0.7
	69				0.8
	70				0.8
	71				0.9
	72				0.8
	73				0.8
3	1	5.53	0.00	0.00	1.2
	2				1.1
	3				1.1

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				1.1
	5				1.1
	6				1.1
	7				1.1
	8				1.1
	9				0.7
	10				0.8
	11				0.7
	12				0.7
	13				0.6
	14				0.6
	15				0.5
	16				0.6
	17				0.7
	18				0.8
	19				0.7
	20				0.8
	21				0.9
	22				0.9
	23				0.9
	24				0.9
	25				0.9
	26				0.8
	27				0.8
	28				0.8
	29				0.8
	30				0.8
	31				0.8
	32				0.8
	33				0.7
	34				0.8
	35				0.7
	36				0.7
	37				0.7
	38				0.7
	39				0.7
	40				0.7
	41				0.7
	42				0.7
	43				0.8
	44				0.7
	45				0.7
	46				0.6
	47				0.6
	48				0.6
	49				0.6
	50				0.7
	51				0.8
	52				0.7
	53				0.8
	54				0.9
	55				0.9
	56				0.9
	57				0.9
	58				0.7
	59				0.8
	60				0.6
	61				0.7
	62				0.6
	63				0.6
	64				0.5
	65				0.6
	66				0.7
	67				0.8
	68				0.7
	69				0.8
	70				0.9
	71				1.0
	72				0.9
	73				0.9
4	1	10.75	0.00	0.00	1.4
	2				1.2
	3				1.2

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				1.2
	5				1.2
	6				1.2
	7				1.2
	8				1.2
	9				0.8
	10				0.9
	11				0.8
	12				0.9
	13				0.6
	14				0.6
	15				0.6
	16				0.6
	17				0.8
	18				0.9
	19				0.8
	20				0.9
	21				1.1
	22				1.0
	23				1.0
	24				1.0
	25				1.0
	26				0.9
	27				0.9
	28				0.9
	29				0.9
	30				0.9
	31				0.9
	32				0.9
	33				0.8
	34				0.9
	35				0.8
	36				0.8
	37				0.8
	38				0.8
	39				0.8
	40				0.8
	41				0.8
	42				0.8
	43				0.9
	44				0.8
	45				0.9
	46				0.7
	47				0.7
	48				0.7
	49				0.6
	50				0.8
	51				0.9
	52				0.8
	53				0.9
	54				1.0
	55				1.0
	56				1.0
	57				1.0
	58				0.8
	59				0.9
	60				0.8
	61				0.9
	62				0.6
	63				0.6
	64				0.6
	65				0.6
	66				0.8
	67				0.9
	68				0.8
	69				0.9
	70				1.1
	71				1.1
	72				1.1
	73				1.0
5	1	16.50	0.00	0.00	1.2
	2				1.1
	3				1.1

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				1.1
	5				1.1
	6				1.1
	7				1.1
	8				1.1
	9				0.7
	10				0.8
	11				0.7
	12				0.8
	13				0.5
	14				0.5
	15				0.6
	16				0.6
	17				0.7
	18				0.8
	19				0.7
	20				0.8
	21				0.9
	22				0.9
	23				0.9
	24				1.0
	25				0.9
	26				0.8
	27				0.8
	28				0.8
	29				0.8
	30				0.8
	31				0.8
	32				0.8
	33				0.7
	34				0.8
	35				0.7
	36				0.7
	37				0.7
	38				0.7
	39				0.7
	40				0.7
	41				0.7
	42				0.7
	43				0.8
	44				0.7
	45				0.8
	46				0.6
	47				0.6
	48				0.6
	49				0.6
	50				0.7
	51				0.8
	52				0.7
	53				0.8
	54				0.9
	55				0.9
	56				0.9
	57				0.9
	58				0.7
	59				0.8
	60				0.7
	61				0.8
	62				0.5
	63				0.5
	64				0.6
	65				0.6
	66				0.7
	67				0.8
	68				0.7
	69				0.8
	70				0.9
	71				0.9
	72				1.0
	73				1.0
6	1	19.71	0.00	0.00	1.1
	2				0.9
	3				0.9

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.9
	5				0.9
	6				0.9
	7				0.9
	8				0.9
	9				0.6
	10				0.7
	11				0.7
	12				0.8
	13				0.5
	14				0.4
	15				0.5
	16				0.5
	17				0.5
	18				0.6
	19				0.6
	20				0.7
	21				0.8
	22				0.8
	23				0.9
	24				0.8
	25				0.7
	26				0.7
	27				0.7
	28				0.7
	29				0.7
	30				0.7
	31				0.7
	32				0.7
	33				0.6
	34				0.7
	35				0.6
	36				0.6
	37				0.6
	38				0.6
	39				0.6
	40				0.6
	41				0.6
	42				0.6
	43				0.7
	44				0.7
	45				0.8
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.5
	51				0.6
	52				0.6
	53				0.7
	54				0.8
	55				0.8
	56				0.8
	57				0.8
	58				0.6
	59				0.7
	60				0.7
	61				0.8
	62				0.5
	63				0.4
	64				0.5
	65				0.5
	66				0.5
	67				0.6
	68				0.6
	69				0.7
	70				0.8
	71				0.8
	72				0.9
	73				0.8
7	1	22.10	0.00	0.00	1.1
	2				1.0
	3				0.9

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.9
	5				0.9
	6				0.9
	7				0.9
	8				0.9
	9				0.8
	10				0.9
	11				0.8
	12				0.9
	13				0.5
	14				0.4
	15				0.5
	16				0.4
	17				0.4
	18				0.5
	19				0.4
	20				0.6
	21				0.9
	22				0.8
	23				0.9
	24				0.8
	25				0.8
	26				0.7
	27				0.7
	28				0.7
	29				0.7
	30				0.7
	31				0.7
	32				0.7
	33				0.7
	34				0.7
	35				0.7
	36				0.7
	37				0.7
	38				0.7
	39				0.7
	40				0.7
	41				0.7
	42				0.7
	43				0.9
	44				0.8
	45				0.9
	46				0.5
	47				0.4
	48				0.6
	49				0.5
	50				0.4
	51				0.5
	52				0.5
	53				0.6
	54				0.9
	55				0.8
	56				0.9
	57				0.8
	58				0.8
	59				0.9
	60				0.8
	61				0.9
	62				0.5
	63				0.4
	64				0.5
	65				0.4
	66				0.4
	67				0.5
	68				0.4
	69				0.6
	70				0.9
	71				0.8
	72				1.0
	73				0.8
8	1	0.00	3.85	0.00	0.8
	2				0.7
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.5
	10				0.4
	11				0.5
	12				0.5
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.6
	18				0.6
	19				0.6
	20				0.6
	21				0.5
	22				0.5
	23				0.5
	24				0.5
	25				0.6
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.5
	45				0.5
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.6
	51				0.6
	52				0.6
	53				0.6
	54				0.5
	55				0.5
	56				0.5
	57				0.5
	58				0.4
	59				0.4
	60				0.5
	61				0.4
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.6
	67				0.6
	68				0.6
	69				0.6
	70				0.5
	71				0.5
	72				0.5
	73				0.5
9	1	5.53	3.85	0.00	0.7
	2				0.7
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.5
	10				0.5
	11				0.5
	12				0.5
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.5
	22				0.5
	23				0.5
	24				0.5
	25				0.5
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.5
	45				0.5
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.5
	55				0.5
	56				0.5
	57				0.5
	58				0.5
	59				0.5
	60				0.5
	61				0.5
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.5
	71				0.5
	72				0.5
	73				0.5
10	1	10.75	3.85	0.00	0.8
	2				0.8
	3				0.8

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.8
	5				0.8
	6				0.8
	7				0.8
	8				0.8
	9				0.5
	10				0.6
	11				0.5
	12				0.6
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.6
	22				0.6
	23				0.6
	24				0.6
	25				0.6
	26				0.6
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.6
	44				0.5
	45				0.6
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.6
	55				0.6
	56				0.6
	57				0.6
	58				0.5
	59				0.6
	60				0.5
	61				0.6
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.6
	71				0.6
	72				0.6
	73				0.6
11	1	13.15	3.85	0.00	0.7
	2				0.7
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.5
	10				0.5
	11				0.5
	12				0.5
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.5
	22				0.5
	23				0.5
	24				0.5
	25				0.5
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.5
	45				0.5
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.5
	55				0.5
	56				0.5
	57				0.5
	58				0.5
	59				0.5
	60				0.5
	61				0.5
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.5
	71				0.5
	72				0.5
	73				0.5
12	1	16.50	3.85	0.00	0.7
	2				0.7
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.4
	10				0.5
	11				0.5
	12				0.5
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.5
	22				0.5
	23				0.5
	24				0.5
	25				0.5
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.5
	45				0.5
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.5
	55				0.5
	56				0.5
	57				0.5
	58				0.4
	59				0.5
	60				0.5
	61				0.5
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.5
	71				0.5
	72				0.5
	73				0.5
13	1	22.10	3.85	0.00	0.8
	2				0.8
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.6
	10				0.6
	11				0.6
	12				0.6
	13				0.5
	14				0.5
	15				0.5
	16				0.5
	17				0.4
	18				0.4
	19				0.4
	20				0.5
	21				0.6
	22				0.5
	23				0.6
	24				0.5
	25				0.6
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.6
	43				0.6
	44				0.6
	45				0.6
	46				0.5
	47				0.5
	48				0.5
	49				0.5
	50				0.4
	51				0.5
	52				0.4
	53				0.5
	54				0.6
	55				0.5
	56				0.6
	57				0.5
	58				0.6
	59				0.6
	60				0.6
	61				0.6
	62				0.5
	63				0.5
	64				0.5
	65				0.5
	66				0.4
	67				0.4
	68				0.4
	69				0.4
	70				0.6
	71				0.5
	72				0.6
	73				0.5
14	1	0.00	9.00	0.00	0.9
	2				0.8
	3				0.8

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.8
	5				0.8
	6				0.8
	7				0.8
	8				0.8
	9				0.5
	10				0.4
	11				0.6
	12				0.5
	13				0.7
	14				0.7
	15				0.8
	16				0.8
	17				0.7
	18				0.6
	19				0.8
	20				0.6
	21				0.3
	22				0.4
	23				0.4
	24				0.5
	25				0.6
	26				0.6
	27				0.6
	28				0.6
	29				0.6
	30				0.6
	31				0.6
	32				0.6
	33				0.6
	34				0.6
	35				0.6
	36				0.6
	37				0.6
	38				0.6
	39				0.6
	40				0.6
	41				0.6
	42				0.5
	43				0.4
	44				0.6
	45				0.5
	46				0.7
	47				0.7
	48				0.8
	49				0.8
	50				0.7
	51				0.6
	52				0.7
	53				0.6
	54				0.3
	55				0.4
	56				0.4
	57				0.5
	58				0.5
	59				0.4
	60				0.6
	61				0.4
	62				0.7
	63				0.8
	64				0.8
	65				0.9
	66				0.7
	67				0.6
	68				0.8
	69				0.6
	70				0.3
	71				0.3
	72				0.4
	73				0.4
15	1	5.53	9.00	0.00	0.8
	2				0.8
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.5
	10				0.5
	11				0.5
	12				0.5
	13				0.6
	14				0.6
	15				0.6
	16				0.6
	17				0.6
	18				0.5
	19				0.6
	20				0.5
	21				0.4
	22				0.4
	23				0.4
	24				0.4
	25				0.6
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.5
	45				0.5
	46				0.6
	47				0.6
	48				0.6
	49				0.6
	50				0.6
	51				0.5
	52				0.6
	53				0.5
	54				0.4
	55				0.4
	56				0.4
	57				0.5
	58				0.5
	59				0.5
	60				0.5
	61				0.5
	62				0.6
	63				0.6
	64				0.6
	65				0.6
	66				0.6
	67				0.5
	68				0.6
	69				0.5
	70				0.4
	71				0.4
	72				0.4
	73				0.4
16	1	10.75	9.00	0.00	0.8
	2				0.8
	3				0.7

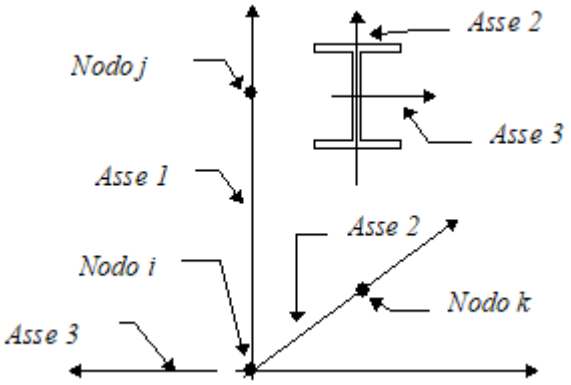
Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.5
	10				0.5
	11				0.6
	12				0.5
	13				0.6
	14				0.6
	15				0.6
	16				0.6
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.4
	22				0.4
	23				0.4
	24				0.4
	25				0.6
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.5
	43				0.5
	44				0.6
	45				0.5
	46				0.6
	47				0.6
	48				0.6
	49				0.6
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.4
	55				0.4
	56				0.5
	57				0.5
	58				0.6
	59				0.5
	60				0.6
	61				0.5
	62				0.6
	63				0.6
	64				0.6
	65				0.6
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.4
	71				0.4
	72				0.4
	73				0.4
17	1	16.50	9.00	0.00	0.8
	2				0.8
	3				0.7

Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.7
	5				0.7
	6				0.7
	7				0.7
	8				0.7
	9				0.6
	10				0.5
	11				0.6
	12				0.5
	13				0.6
	14				0.6
	15				0.6
	16				0.6
	17				0.5
	18				0.5
	19				0.5
	20				0.5
	21				0.4
	22				0.4
	23				0.4
	24				0.4
	25				0.6
	26				0.5
	27				0.5
	28				0.5
	29				0.5
	30				0.5
	31				0.5
	32				0.5
	33				0.5
	34				0.5
	35				0.5
	36				0.5
	37				0.5
	38				0.5
	39				0.5
	40				0.5
	41				0.5
	42				0.6
	43				0.5
	44				0.6
	45				0.5
	46				0.6
	47				0.6
	48				0.6
	49				0.6
	50				0.5
	51				0.5
	52				0.5
	53				0.5
	54				0.5
	55				0.4
	56				0.4
	57				0.4
	58				0.6
	59				0.5
	60				0.6
	61				0.5
	62				0.6
	63				0.6
	64				0.6
	65				0.6
	66				0.5
	67				0.5
	68				0.5
	69				0.5
	70				0.4
	71				0.4
	72				0.4
	73				0.4
18	1	22.10	9.00	0.00	0.9
	2				0.8
	3				0.8

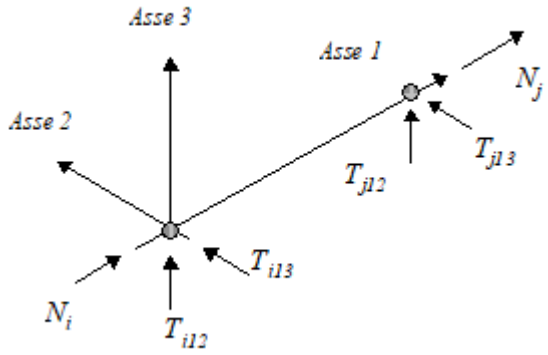
Nodo	Comb.	x [m]	y [m]	z [m]	σ [kg/cm²]
	4				0.8
	5				0.8
	6				0.8
	7				0.8
	8				0.8
	9				0.8
	10				0.6
	11				0.7
	12				0.6
	13				0.9
	14				0.8
	15				0.8
	16				0.7
	17				0.6
	18				0.4
	19				0.5
	20				0.4
	21				0.4
	22				0.4
	23				0.3
	24				0.3
	25				0.6
	26				0.6
	27				0.6
	28				0.6
	29				0.6
	30				0.6
	31				0.6
	32				0.6
	33				0.6
	34				0.6
	35				0.6
	36				0.6
	37				0.6
	38				0.6
	39				0.6
	40				0.6
	41				0.6
	42				0.7
	43				0.6
	44				0.7
	45				0.6
	46				0.8
	47				0.8
	48				0.8
	49				0.7
	50				0.6
	51				0.5
	52				0.5
	53				0.4
	54				0.4
	55				0.4
	56				0.4
	57				0.3
	58				0.8
	59				0.6
	60				0.7
	61				0.6
	62				0.9
	63				0.8
	64				0.8
	65				0.7
	66				0.6
	67				0.4
	68				0.5
	69				0.4
	70				0.4
	71				0.4
	72				0.3
	73				0.3

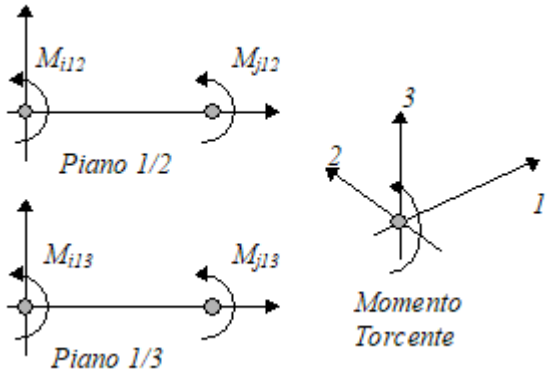
Convenzioni adottate

Le sollecitazioni nei pilastri sono da intendersi nel sistema di riferimento locale dell'elemento e si riferiscono all'asta.
L'orientamento del pilastro nello spazio è definito a mezzo del nodo *K*. La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni così diretti:





Per ogni pilastro vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
1	101	15751.8	1101.8	-1260.5	1.4	3453.9	2020.2
	1	-17945.6	-1101.8	1260.5	-1.4	1272.8	2111.4
2	101	12043.8	657.8	-1161.5	2.6	3122.7	1039.6
	1	-14237.6	-657.8	1161.5	-2.6	1233.0	1427.3
3	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0
4	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0
5	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
6	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0
7	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0
8	101	11625.8	633.5	-1124.9	2.5	3026.3	985.6
	1	-13819.5	-633.5	1124.9	-2.5	1192.1	1390.0
9	101	5627.6	585.0	1652.9	-90.4	-2837.5	947.0
	1	-7315.1	-585.0	-1652.9	90.4	-3869.6	1246.6
10	101	7630.0	-2250.2	1944.1	-56.2	-2835.4	-3725.7
	1	-9317.5	2250.2	-1944.1	56.2	-4455.1	-4712.8
11	101	4319.9	3330.5	1247.8	119.2	-1640.4	5452.1
	1	-6007.4	-3330.5	-1247.8	-119.2	-3038.9	7037.8
12	101	6322.3	495.2	1539.1	153.3	-1638.3	779.4
	1	-8009.8	-495.2	-1539.1	-153.3	-3624.4	1078.4
13	101	4777.3	3478.1	-442.5	-200.3	-219.0	5682.6
	1	-6464.8	-3478.1	442.5	200.3	182.0	7360.3
14	101	5817.2	3395.1	-1846.7	-218.1	2328.6	5521.9
	1	-7504.7	-3395.1	1846.7	218.1	2900.3	7209.6
15	101	2924.3	6859.1	-612.9	107.7	1680.5	11244.6
	1	-4611.8	-6859.1	612.9	-107.7	618.2	14477.5
16	101	3964.2	6776.1	-2017.1	89.9	4228.0	11083.9
	1	-5651.7	-6776.1	2017.1	-89.9	3336.5	14326.7
17	101	9094.0	308.3	-3027.8	-149.9	5654.3	411.3
	1	-10781.5	-308.3	3027.8	149.9	5191.2	744.1
18	101	11096.4	-2526.9	-2736.6	-115.7	5656.4	-4261.4
	1	-12783.9	2526.9	2736.6	115.7	4605.7	-5215.2
19	101	7786.2	3053.8	-3432.9	59.7	6851.4	4916.5
	1	-9473.7	-3053.8	3432.9	-59.7	6021.9	6535.3
20	101	9788.7	218.5	-3141.6	93.9	6853.5	243.8
	1	-11476.2	-218.5	3141.6	-93.9	5436.4	575.9
21	101	11452.0	-5972.6	528.3	-86.4	-212.0	-9893.1
	1	-13139.5	5972.6	-528.3	86.4	-1769.7	-12504.2
22	101	12492.0	-6055.6	-875.9	-104.2	2335.5	-10053.8
	1	-14179.5	6055.6	875.9	104.2	948.6	-12654.9
23	101	9599.1	-2591.6	357.9	221.6	1687.4	-4331.2
	1	-11286.6	2591.6	-357.9	-221.6	-1333.5	-5387.1
24	101	10639.0	-2674.6	-1046.3	203.8	4235.0	-4491.9
	1	-12326.5	2674.6	1046.3	-203.8	1384.8	-5537.8
25	101	10737.5	730.2	-859.1	1.1	2357.4	1321.2
	1	-12425.0	-730.2	859.1	-1.1	864.4	1417.1
26	101	8265.5	434.3	-793.2	1.9	2136.5	667.5
	1	-9953.0	-434.3	793.2	-1.9	837.9	961.0
27	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
28	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
29	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
30	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
31	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
32	101	7986.8	418.0	-768.8	1.8	2072.3	631.4
	1	-9674.3	-418.0	768.8	-1.8	810.6	936.1
33	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
34	101	7819.6	408.3	-754.1	1.8	2033.7	609.8
	1	-9507.1	-408.3	754.1	-1.8	794.3	921.2
35	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
36	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
37	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
38	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
39	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
40	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
41	101	7708.1	401.8	-744.4	1.7	2008.0	595.4
	1	-9395.6	-401.8	744.4	-1.7	783.4	911.3
42	101	5839.9	557.6	1659.9	-80.5	-2352.0	897.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	1	-7527.4	-557.6	-1659.9	80.5	-3414.8	1193.7
43	101	7639.1	-1985.8	1677.3	-50.1	-2354.8	-3294.7
	1	-9326.6	1985.8	-1677.3	50.1	-3935.4	-4152.2
44	101	4656.3	3027.2	1048.6	106.7	-1275.7	4950.0
	1	-6343.8	-3027.2	-1048.6	-106.7	-2656.6	6402.7
45	101	6455.4	483.8	1066.1	137.1	-1278.6	758.2
	1	-8142.9	-483.8	-1066.1	-137.1	-3177.1	1056.8
46	101	5084.1	3137.8	343.4	-178.6	19.0	5120.2
	1	-6771.6	-3137.8	-343.4	178.6	219.9	6646.4
47	101	6020.4	3066.4	-921.1	-194.5	2312.9	4980.8
	1	-7707.9	-3066.4	921.1	194.5	2667.5	6518.0
48	101	3398.7	6215.1	-625.8	96.5	1712.5	10182.7
	1	-5086.2	-6215.1	625.8	-96.5	634.5	13124.2
49	101	4335.0	6143.8	-1890.2	80.6	4006.5	10043.3
	1	-6022.5	-6143.8	1890.2	-80.6	3082.1	12995.9
50	101	8960.8	319.7	-2554.8	-133.7	5294.6	432.6
	1	-10648.3	-319.7	2554.8	133.7	4743.9	765.7
51	101	10760.0	-2223.7	-2537.4	-103.2	5291.7	-3759.2
	1	-12447.5	2223.7	2537.4	103.2	4223.4	-4580.2
52	101	7777.2	2789.3	-3166.1	53.6	6370.8	4485.5
	1	-9464.7	-2789.3	3166.1	-53.6	5502.2	5974.7
53	101	9576.4	246.0	-3148.7	84.0	6367.9	293.7
	1	-11263.9	-246.0	3148.7	-84.0	4981.6	628.8
54	101	11081.3	-5340.2	401.4	-77.1	9.5	-8852.5
	1	-12768.8	5340.2	-401.4	77.1	-1515.3	-11173.3
55	101	12017.6	-5411.6	-863.0	-93.0	2303.5	-8991.9
	1	-13705.1	5411.6	863.0	93.0	932.3	-11301.7
56	101	9395.9	-2262.8	-567.7	198.0	1703.0	-3790.0
	1	-11083.4	2262.8	567.7	-198.0	-1100.7	-4695.4
57	101	10332.2	-2334.2	-1832.1	182.1	3997.0	-3929.4
	1	-12019.7	2334.2	1832.1	-182.1	1346.9	-4823.8
58	101	5523.3	586.4	2066.6	-94.6	-3089.4	952.2
	1	-7210.8	-586.4	-2066.6	94.6	-4122.2	1246.7
59	101	7627.4	-2389.0	2086.3	-58.8	-3091.5	-3951.6
	1	-9314.9	2389.0	-2086.3	58.8	-4732.2	-5007.2
60	101	4140.9	3471.4	1351.5	124.4	-1830.4	5686.6
	1	-5828.4	-3471.4	-1351.5	-124.4	-3237.7	7331.7
61	101	6245.0	496.0	1371.2	160.1	-1832.5	782.8
	1	-7932.5	-496.0	-1371.2	-160.1	-3847.7	1077.8
62	101	4637.3	3608.2	529.5	-209.4	-320.9	5898.1
	1	-6324.8	-3608.2	-529.5	209.4	129.9	7632.6
63	101	5731.7	3524.5	-948.5	-228.1	2360.4	5734.8
	1	-7419.2	-3524.5	948.5	228.1	2990.8	7482.0
64	101	2671.0	7197.0	-605.7	112.5	1662.6	11802.0
	1	-4358.5	-7197.0	605.7	-112.5	609.3	15187.1
65	101	3765.4	7113.4	-2083.7	93.9	4343.9	11638.7
	1	-5452.9	-7113.4	2083.7	-93.9	3470.3	15036.5
66	101	9171.3	307.6	-2859.9	-156.7	5848.5	407.9
	1	-10858.8	-307.6	2859.9	156.7	5414.5	744.8
67	101	11275.4	-2667.8	-2840.3	-121.0	5846.4	-4495.9
	1	-12962.9	2667.8	2840.3	121.0	4804.5	-5509.2
68	101	7788.9	3192.5	-3575.0	62.3	7107.5	5142.4
	1	-9476.4	-3192.5	3575.0	-62.3	6299.0	6829.8
69	101	9893.0	217.1	-3555.4	98.0	7105.4	238.6
	1	-11580.5	-217.1	3555.4	-98.0	5689.0	575.8
70	101	11650.9	-6309.8	594.9	-90.4	-327.9	-10447.9
	1	-13338.4	6309.8	-594.9	90.4	-1903.5	-13214.0
71	101	12745.3	-6393.5	-883.1	-109.0	2353.4	-10611.2
	1	-14432.8	6393.5	883.1	109.0	957.5	-13364.5
72	101	9684.6	-2721.0	-540.3	231.5	1655.5	-4544.0
	1	-11372.1	2721.0	540.3	-231.5	-1424.0	-5659.4
73	101	10779.0	-2804.6	-2018.2	212.9	4336.9	-4707.3
	1	-12466.5	2804.6	2018.2	-212.9	1436.9	-5810.0
1	3	31258.0	-1950.4	-876.3	1.4	2878.1	-3438.5
	103	-29064.2	1950.4	876.3	-1.4	408.0	-3875.4
2	3	25425.1	-1329.3	-680.7	2.6	2315.8	-2449.0
	103	-23231.4	1329.3	680.7	-2.6	236.9	-2535.9
3	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
4	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
5	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
6	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
7	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
8	3	24633.4	-1284.1	-641.7	2.5	2206.3	-2373.6
	103	-22439.7	1284.1	641.7	-2.5	199.9	-2441.6
9	3	15133.0	-1208.1	7898.4	-90.4	-15344.0	-2262.3
	103	-13445.5	1208.1	-7898.4	90.4	-14275.8	-2268.1
10	3	16946.3	91.0	7595.5	-56.2	-14681.0	217.6
	103	-15258.8	-91.0	-7595.5	56.2	-13804.5	123.8
11	3	14455.8	-1308.9	6219.7	119.2	-12027.7	-2463.2
	103	-12768.3	1308.9	-6219.7	-119.2	-11293.8	-3494.3
12	3	16269.1	-9.7	5916.8	153.3	-11364.8	16.7
	103	-14581.6	9.7	-5916.8	-153.3	-10822.5	-1102.5
13	3	13750.8	-2616.6	3554.4	-200.3	-6601.4	-4953.4
	103	-12063.3	2616.6	-3554.4	200.3	-6729.5	-4858.8
14	3	14262.7	-2756.8	-861.5	-218.1	2324.4	-5222.2
	103	-12575.2	2756.8	861.5	218.1	904.2	-4800.9
15	3	12801.4	-3258.7	966.9	107.7	-1490.5	-6185.6
	103	-11113.9	3258.7	-966.9	-107.7	-2127.8	-6349.4
16	3	13313.3	-3398.9	-3449.0	89.9	7435.3	-6454.4
	103	-11625.8	3398.9	3449.0	-89.9	5505.8	-6291.4
17	3	16839.4	-1675.4	-6821.0	-149.9	14408.5	-3158.4
	103	-15151.9	1675.4	6821.0	149.9	11169.8	-2074.9
18	3	18652.7	-376.2	-7123.9	-115.7	15071.5	-678.5
	103	-16965.2	376.2	7123.9	115.7	11641.0	316.9
19	3	16162.2	-1776.1	-8499.8	59.7	17724.8	-3359.3
	103	-14474.7	1776.1	8499.8	-59.7	14151.7	-3301.2
20	3	17975.5	-477.0	-8802.7	93.9	18387.7	-879.4
	103	-16288.0	477.0	8802.7	-93.9	14623.0	-909.3
21	3	19795.2	1713.8	2544.7	-86.4	-4391.5	3312.8
	103	-18107.7	-1713.8	-2544.7	86.4	-5158.6	3114.0
22	3	20307.1	1573.6	-1871.1	-104.2	4534.2	3043.9
	103	-18619.6	-1573.6	1871.1	104.2	2475.1	3172.0
23	3	18845.8	1071.7	-42.8	221.6	719.4	2080.6
	103	-17158.3	-1071.7	42.8	-221.6	-557.0	1623.5
24	3	19357.7	931.5	-4458.6	203.8	9645.1	1811.7
	103	-17670.2	-931.5	4458.6	-203.8	7076.7	1681.4
25	3	21498.5	-1316.9	-634.6	1.1	2042.7	-2331.0
	103	-19811.0	1316.9	634.6	-1.1	336.9	-2607.4
26	3	17609.9	-902.8	-504.2	1.9	1667.9	-1671.3
	103	-15922.4	902.8	504.2	-1.9	222.9	-1714.4
27	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
28	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
29	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
30	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
31	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
32	3	17082.1	-872.7	-478.2	1.8	1594.9	-1621.1
	103	-15394.6	872.7	478.2	-1.8	198.2	-1651.5
33	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
34	3	16765.4	-854.6	-462.5	1.8	1551.1	-1590.9
	103	-15077.9	854.6	462.5	-1.8	183.5	-1613.8
35	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
36	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
37	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
38	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
39	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
40	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7
41	3	16554.3	-842.5	-452.1	1.7	1521.9	-1570.8
	103	-14866.8	842.5	452.1	-1.7	173.6	-1588.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
42	3	15276.4	-1170.6	7065.8	-80.5	-13662.9	-2191.3
	103	-13588.9	1170.6	-7065.8	80.5	-12834.3	-2198.4
43	3	16908.1	-1.9	6795.9	-50.1	-13070.6	39.6
	103	-15220.6	1.9	-6795.9	50.1	-12415.9	-46.6
44	3	14664.2	-1772.0	5555.1	106.7	-10678.6	-3344.2
	103	-12976.7	1772.0	-5555.1	-106.7	-10151.0	-3300.9
45	3	16295.8	-603.3	5285.2	137.1	-10086.4	-1113.4
	103	-14608.3	603.3	-5285.2	-137.1	-9732.6	-1149.2
46	3	14035.0	-2435.4	3141.7	-178.6	-5767.1	-4607.9
	103	-12347.5	2435.4	-3141.7	178.6	-6016.1	-4524.9
47	3	14495.9	-2408.8	-834.8	-194.5	2270.8	-4559.0
	103	-12808.4	2408.8	834.8	194.5	858.2	-4473.9
48	3	13173.7	-3172.0	830.2	96.5	-1201.1	-6018.9
	103	-11486.2	3172.0	-830.2	-96.5	-1905.5	-5876.0
49	3	13634.6	-3145.3	-3146.4	80.6	6836.8	-5970.0
	103	-11947.1	3145.3	3146.4	-80.6	4968.7	-5824.9
50	3	16812.7	-1081.7	-6189.4	-133.7	13130.1	-2028.3
	103	-15125.2	1081.7	6189.4	133.7	10079.8	-2028.2
51	3	18444.4	86.9	-6459.3	-103.2	13722.4	202.6
	103	-16756.9	-86.9	6459.3	103.2	10498.2	123.5
52	3	16200.4	-1683.2	-7700.1	53.6	16114.4	-3181.3
	103	-14512.9	1683.2	7700.1	-53.6	12763.1	-3130.8
53	3	17832.1	-514.5	-7970.0	84.0	16706.6	-950.4
	103	-16144.6	514.5	7970.0	-84.0	13181.5	-979.0
54	3	19473.9	1460.2	2242.1	-77.1	-3793.1	2828.3
	103	-17786.4	-1460.2	-2242.1	77.1	-4621.5	2647.5
55	3	19934.8	1486.9	-1734.4	-93.0	4244.8	2877.2
	103	-18247.3	-1486.9	1734.4	93.0	2252.7	2698.6
56	3	18612.6	723.7	-69.4	198.0	773.0	1417.3
	103	-16925.1	-723.7	69.4	-198.0	-510.9	1296.5
57	3	19073.5	750.3	-4046.0	182.1	8810.9	1466.2
	103	-17386.0	-750.3	4046.0	-182.1	6363.3	1347.5
58	3	15060.2	-1226.3	8336.3	-94.6	-16229.0	-2296.7
	103	-13372.7	1226.3	-8336.3	94.6	-15032.8	-2302.0
59	3	16967.8	140.1	8019.8	-58.8	-15534.7	311.6
	103	-15280.3	-140.1	-8019.8	58.8	-14541.8	213.7
60	3	14345.0	-1929.1	6569.7	124.4	-12739.3	-3644.0
	103	-12657.5	1929.1	-6569.7	-124.4	-11894.9	-3590.3
61	3	16252.6	-562.7	6253.2	160.1	-12045.1	-1035.7
	103	-14565.1	562.7	-6253.2	-160.1	-11403.8	-1074.5
62	3	13608.3	-2705.6	3752.2	-209.4	-7004.7	-5123.1
	103	-11920.8	2705.6	-3752.2	209.4	-7068.0	-5023.0
63	3	14147.0	-2674.4	-895.9	-228.1	2390.7	-5065.9
	103	-12459.5	2674.4	895.9	228.1	967.1	-4963.3
64	3	12602.8	-3565.4	1046.8	112.5	-1661.0	-6770.1
	103	-10915.3	3565.4	-1046.8	-112.5	-2256.7	-6600.0
65	3	13141.5	-3534.2	-3601.3	93.9	7734.3	-6712.9
	103	-11454.0	3534.2	3601.3	-93.9	5778.4	-6540.3
66	3	16855.9	-1122.4	-7157.4	-156.7	15088.8	-2106.0
	103	-15168.4	1122.4	7157.4	156.7	11751.0	-2102.9
67	3	18763.5	244.1	-7474.0	-121.0	15783.1	502.3
	103	-17076.0	-244.1	7474.0	121.0	12242.1	412.9
68	3	16140.7	-1825.2	-8924.0	62.3	18578.5	-3453.2
	103	-14453.2	1825.2	8924.0	-62.3	14889.0	-3391.2
69	3	18048.3	-458.8	-9240.6	98.0	19272.7	-844.9
	103	-16360.8	458.8	9240.6	-98.0	15380.0	-875.4
70	3	19967.0	1849.1	2697.1	-90.4	-4690.5	3571.2
	103	-18279.5	-1849.1	-2697.1	90.4	-5431.2	3362.9
71	3	20505.7	1880.3	-1951.0	-109.0	4704.8	3628.4
	103	-18818.2	-1880.3	1951.0	109.0	2604.0	3422.6
72	3	18961.5	989.3	-8.3	231.5	653.1	1924.2
	103	-17274.0	-989.3	8.3	-231.5	-619.9	1785.9
73	3	19500.2	1020.5	-4656.4	212.9	10048.4	1981.4
	103	-17812.8	-1020.5	4656.4	-212.9	7415.2	1845.6
1	104	25588.4	2284.9	-464.8	1.4	1419.7	4554.3
	4	-27782.2	-2284.9	464.8	-1.4	323.3	4014.0
2	104	20421.0	1504.7	-360.9	2.6	1138.1	2903.8
	4	-22614.8	-1504.7	360.9	-2.6	215.4	2738.8
3	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0
4	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
5	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0
6	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0
7	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0
8	104	19745.1	1447.1	-341.1	2.5	1088.0	2784.7
	4	-21938.8	-1447.1	341.1	-2.5	191.1	2642.0
9	104	12615.1	1631.2	8466.3	-90.4	-14623.9	3088.2
	4	-14302.6	-1631.2	-8466.3	90.4	-17124.7	3028.9
10	104	14018.6	307.3	8183.0	-56.2	-14111.4	614.1
	4	-15706.1	-307.3	-8183.0	56.2	-16574.8	538.5
11	104	12557.8	1797.8	6763.7	119.2	-11623.4	3398.7
	4	-14245.3	-1797.8	-6763.7	-119.2	-13740.4	3343.1
12	104	13961.2	473.9	6480.4	153.3	-11110.9	924.5
	4	-15648.7	-473.9	-6480.4	-153.3	-13190.6	852.7
13	104	10832.6	3122.3	3864.5	-200.3	-6515.6	5875.2
	4	-12520.1	-3122.3	-3864.5	200.3	-7976.5	5833.4
14	104	10674.3	3062.1	-755.9	-218.1	1639.0	5762.7
	4	-12361.8	-3062.1	755.9	218.1	1195.7	5720.0
15	104	10696.1	3255.3	1245.4	107.7	-1900.1	6122.6
	4	-12383.6	-3255.3	-1245.4	-107.7	-2770.0	6085.0
16	104	10537.8	3195.1	-3375.1	89.9	6254.5	6010.1
	4	-12225.3	-3195.1	3375.1	-89.9	6402.2	5971.6
17	104	12087.4	1430.5	-6935.3	-149.9	12558.1	2713.5
	4	-13774.9	-1430.5	6935.3	149.9	13449.2	2651.0
18	104	13490.9	106.6	-7218.6	-115.7	13070.5	239.3
	4	-15178.4	-106.6	7218.6	115.7	13999.1	160.6
19	104	12030.1	1597.1	-8637.9	59.7	15558.6	3024.0
	4	-13717.6	-1597.1	8637.9	-59.7	16833.5	2965.2
20	104	13433.5	273.2	-8921.2	93.9	16071.0	549.8
	4	-15121.0	-273.2	8921.2	-93.9	17383.4	474.8
21	104	15510.8	-1290.7	2920.2	-86.4	-4807.4	-2372.1
	4	-17198.3	1290.7	-2920.2	86.4	-6143.5	-2467.9
22	104	15352.5	-1350.9	-1700.3	-104.2	3347.2	-2484.5
	4	-17040.0	1350.9	1700.3	104.2	3028.7	-2581.3
23	104	15374.3	-1157.6	301.1	221.6	-191.8	-2124.7
	4	-17061.8	1157.6	-301.1	-221.6	-937.0	-2216.3
24	104	15216.0	-1217.8	-4319.4	203.8	7962.8	-2237.1
	4	-16903.5	1217.8	4319.4	-203.8	8235.2	-2329.7
25	104	17370.5	1549.1	-323.1	1.1	978.0	3078.1
	4	-19058.0	-1549.1	323.1	-1.1	233.7	2731.1
26	104	13925.6	1029.0	-253.9	1.9	790.3	1977.8
	4	-15613.1	-1029.0	253.9	-1.9	161.7	1881.0
27	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
28	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
29	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
30	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
31	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
32	104	13474.9	990.6	-240.7	1.8	756.9	1898.4
	4	-15162.4	-990.6	240.7	-1.8	145.5	1816.4
33	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
34	104	13204.6	967.6	-232.7	1.8	736.9	1850.8
	4	-14892.1	-967.6	232.7	-1.8	135.8	1777.7
35	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
36	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
37	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
38	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
39	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
40	104	13024.3	952.2	-227.4	1.7	723.6	1819.0
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
41	104	13024.3	952.2	-227.4	1.7	723.6	1819.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	4	-14711.8	-952.2	227.4	-1.7	129.3	1751.9
42	104	12656.1	1563.5	7599.3	-80.5	-13093.5	2961.6
	4	-14343.6	-1563.5	-7599.3	80.5	-15404.0	2901.5
43	104	13919.9	371.3	7347.4	-50.1	-12637.5	733.6
	4	-15607.4	-371.3	-7347.4	50.1	-14915.4	658.9
44	104	12603.8	1713.8	6067.3	106.7	-10393.5	3241.8
	4	-14291.3	-1713.8	-6067.3	-106.7	-12358.7	3185.1
45	104	13867.6	521.7	5815.4	137.1	-9937.6	1013.8
	4	-15555.1	-521.7	-5815.4	-137.1	-11870.1	942.5
46	104	11051.3	2905.9	3442.6	-178.6	-5769.7	5470.8
	4	-12738.8	-2905.9	-3442.6	178.6	-7140.3	5426.4
47	104	10908.8	2851.7	-718.2	-194.5	1573.8	5369.5
	4	-12596.3	-2851.7	718.2	194.5	1119.5	5324.3
48	104	10927.1	3026.7	1103.0	96.5	-1646.6	5695.2
	4	-12614.6	-3026.7	-1103.0	-96.5	-2489.5	5654.7
49	104	10784.6	2972.5	-3057.9	80.6	5696.9	5594.0
	4	-12472.1	-2972.5	3057.9	-80.6	5770.4	5552.7
50	104	12181.0	1382.8	-6270.3	-133.7	11384.7	2624.2
	4	-13868.5	-1382.8	6270.3	133.7	12128.8	2561.2
51	104	13444.8	190.6	-6522.2	-103.2	11840.7	396.2
	4	-15132.3	-190.6	6522.2	103.2	12617.4	318.6
52	104	12128.7	1533.1	-7802.3	53.6	14084.7	2904.4
	4	-13816.2	-1533.1	7802.3	-53.6	15174.1	2844.8
53	104	13392.5	341.0	-8054.2	84.0	14540.6	676.4
	4	-15080.0	-341.0	8054.2	-84.0	15662.7	602.2
54	104	15264.0	-1068.0	2603.0	-77.1	-4249.7	-1956.0
	4	-16951.5	1068.0	-2603.0	77.1	-5511.7	-2049.0
55	104	15121.5	-1122.2	-1557.9	-93.0	3093.7	-2057.2
	4	-16809.0	1122.2	1557.9	93.0	2748.2	-2151.0
56	104	15139.8	-947.2	263.4	198.0	-126.6	-1731.5
	4	-16827.3	947.2	-263.4	-198.0	-860.9	-1820.6
57	104	14997.3	-1001.4	-3897.5	182.1	7216.8	-1832.7
	4	-16684.8	1001.4	3897.5	-182.1	7399.0	-1922.7
58	104	12593.9	1666.8	8922.1	-94.6	-15428.6	3154.7
	4	-14281.4	-1666.8	-8922.1	94.6	-18029.2	3095.7
59	104	14071.1	273.2	8626.5	-58.8	-14893.7	550.3
	4	-15758.6	-273.2	-8626.5	58.8	-17455.9	474.3
60	104	12532.8	1842.4	7130.5	124.4	-12271.3	3482.1
	4	-14220.3	-1842.4	-7130.5	-124.4	-14468.0	3427.1
61	104	14010.1	448.9	6834.9	160.1	-11736.3	877.7
	4	-15697.6	-448.9	-6834.9	-160.1	-13894.7	805.6
62	104	10717.9	3236.1	4066.1	-209.4	-6872.7	6087.8
	4	-12405.4	-3236.1	-4066.1	209.4	-8375.4	6047.4
63	104	10551.3	3172.7	-797.4	-228.1	1710.9	5969.5
	4	-12238.8	-3172.7	797.4	228.1	1279.3	5928.1
64	104	10573.0	3376.9	1327.7	112.5	-2046.9	6349.8
	4	-12260.5	-3376.9	-1327.7	-112.5	-2931.8	6313.8
65	104	10406.4	3313.6	-3535.8	93.9	6536.7	6231.5
	4	-12093.9	-3313.6	3535.8	-93.9	6722.9	6194.5
66	104	12038.5	1455.6	-7289.8	-156.7	13183.5	2760.3
	4	-13726.0	-1455.6	7289.8	156.7	14153.3	2698.1
67	104	13515.8	62.0	-7585.4	-121.0	13718.4	156.0
	4	-15203.3	-62.0	7585.4	121.0	14726.7	76.6
68	104	11977.5	1631.2	-9081.4	62.3	16340.8	3087.7
	4	-13665.0	-1631.2	9081.4	-62.3	17714.6	3029.4
69	104	13454.8	237.7	-9377.0	98.0	16875.8	483.3
	4	-15142.3	-237.7	9377.0	-98.0	18287.9	408.0
70	104	15642.2	-1409.1	3080.9	-90.4	-5089.6	-2593.5
	4	-17329.7	1409.1	-3080.9	90.4	-6464.2	-2690.8
71	104	15475.6	-1472.5	-1782.6	-109.0	3494.1	-2711.8
	4	-17163.1	1472.5	1782.6	109.0	3190.5	-2810.1
72	104	15497.3	-1268.2	342.5	231.5	-263.8	-2331.5
	4	-17184.8	1268.2	-342.5	-231.5	-1020.6	-2424.4
73	104	15330.7	-1331.6	-4521.0	212.9	8319.8	-2449.8
	4	-17018.2	1331.6	4521.0	-212.9	8634.1	-2543.7
1	105	29891.4	2119.7	823.1	1.4	-1296.3	4133.8
	5	-32085.1	-2119.7	-823.1	-1.4	-1790.2	3815.1
2	105	23904.6	1448.8	584.3	2.6	-919.0	2702.6
	5	-26098.3	-1448.8	-584.3	-2.6	-1272.0	2730.5
3	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
4	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
5	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
6	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
7	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
8	105	23098.5	1401.2	544.0	2.5	-857.7	2604.1
	5	-25292.3	-1401.2	-544.0	-2.5	-1182.2	2650.3
9	105	14062.9	1826.6	8935.1	-90.4	-15553.3	3373.1
	5	-15750.4	-1826.6	-8935.1	90.4	-17953.8	3476.8
10	105	15925.3	346.4	8722.1	-56.2	-15142.8	639.4
	5	-17612.8	-346.4	-8722.1	56.2	-17565.1	659.8
11	105	14792.3	1280.6	7236.2	119.2	-12541.2	2364.4
	5	-16479.8	-1280.6	-7236.2	-119.2	-14594.5	2437.9
12	105	16654.7	-199.6	7023.2	153.3	-12130.8	-369.4
	5	-18342.2	199.6	-7023.2	-153.3	-14205.8	-379.1
13	105	11765.6	3695.9	4324.6	-200.3	-7578.8	6823.2
	5	-13453.1	-3695.9	-4324.6	200.3	-8639.6	7036.5
14	105	11724.5	3760.9	-234.4	-218.1	366.2	6941.3
	5	-13412.0	-3760.9	234.4	218.1	511.8	7162.0
15	105	12648.1	3016.7	1706.1	107.7	-2935.1	5568.6
	5	-14335.6	-3016.7	-1706.1	-107.7	-3462.1	5744.0
16	105	12607.0	3081.6	-2852.9	89.9	5010.0	5686.7
	5	-14294.5	-3081.6	2852.9	-89.9	5689.3	5869.4
17	105	13925.8	2043.2	-6261.7	-149.9	10930.2	3766.9
	5	-15613.3	-2043.2	6261.7	149.9	12551.0	3895.0
18	105	15788.2	563.0	-6474.8	-115.7	11340.6	1033.1
	5	-17475.7	-563.0	6474.8	115.7	12939.7	1078.0
19	105	14655.2	1497.1	-7960.6	59.7	13942.2	2758.1
	5	-16342.7	-1497.1	7960.6	-59.7	15910.4	2856.1
20	105	16517.6	16.9	-8173.7	93.9	14352.7	24.4
	5	-18205.1	-16.9	8173.7	-93.9	16299.0	39.1
21	105	17973.6	-1238.1	3614.4	-86.4	-6210.6	-2289.3
	5	-19661.1	1238.1	-3614.4	86.4	-7344.1	-2353.5
22	105	17932.4	-1173.1	-944.7	-104.2	1734.5	-2171.1
	5	-19619.9	1173.1	944.7	104.2	1807.3	-2228.1
23	105	18856.1	-1917.3	995.9	221.6	-1566.8	-3543.9
	5	-20543.6	1917.3	-995.9	-221.6	-2166.6	-3646.1
24	105	18815.0	-1852.4	-3563.2	203.8	6378.2	-3425.8
	5	-20502.5	1852.4	3563.2	-203.8	6984.9	-3520.6
25	105	20356.2	1432.6	593.6	1.1	-933.5	2784.2
	5	-22043.7	-1432.6	-593.6	-1.1	-1292.6	2588.0
26	105	16365.0	985.4	434.4	1.9	-682.0	1830.1
	5	-18052.5	-985.4	-434.4	-1.9	-947.0	1865.0
27	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
28	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
29	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
30	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
31	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
32	105	15827.7	953.6	407.6	1.8	-641.1	1764.4
	5	-17515.2	-953.6	-407.6	-1.8	-887.2	1811.5
33	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
34	105	15505.2	934.5	391.5	1.8	-616.6	1725.0
	5	-17192.7	-934.5	-391.5	-1.8	-851.3	1779.4
35	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
36	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
37	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
38	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
39	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
40	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
41	105	15290.3	921.8	380.7	1.7	-600.3	1698.7
	5	-16977.8	-921.8	-380.7	-1.7	-827.4	1757.9
42	105	14184.9	1736.2	8081.5	-80.5	-14061.2	3205.9
	5	-15872.4	-1736.2	-8081.5	80.5	-16244.6	3305.1
43	105	15862.3	403.1	7893.7	-50.1	-13698.5	743.8
	5	-17549.8	-403.1	-7893.7	50.1	-15903.1	768.0
44	105	14839.7	1246.1	6553.0	106.7	-11351.1	2300.4
	5	-16527.2	-1246.1	-6553.0	-106.7	-13222.3	2372.5
45	105	16517.1	-87.0	6365.2	137.1	-10988.3	-161.8
	5	-18204.6	87.0	-6365.2	-137.1	-12880.8	-164.6
46	105	12115.2	3420.7	3915.7	-178.6	-6856.0	6314.8
	5	-13802.7	-3420.7	-3915.7	178.6	-7828.8	6512.7
47	105	12078.7	3479.0	-189.9	-194.5	298.7	6420.7
	5	-13766.2	-3479.0	189.9	194.5	412.4	6625.4
48	105	12910.7	2808.4	1577.3	96.5	-2708.5	5183.8
	5	-14598.2	-2808.4	-1577.3	-96.5	-3205.5	5347.6
49	105	12874.2	2866.7	-2528.3	80.6	4446.2	5289.8
	5	-14561.7	-2866.7	2528.3	-80.6	5035.6	5460.2
50	105	14063.5	1930.6	-5603.7	-133.7	9787.8	3559.2
	5	-15751.0	-1930.6	5603.7	133.7	11226.0	3680.5
51	105	15740.8	597.5	-5791.5	-103.2	10150.5	1097.1
	5	-17428.3	-597.5	5791.5	103.2	11567.5	1143.4
52	105	14718.3	1440.4	-7132.3	53.6	12497.9	2653.7
	5	-16405.8	-1440.4	7132.3	-53.6	14248.3	2747.9
53	105	16395.6	107.3	-7320.0	84.0	12860.6	191.6
	5	-18083.1	-107.3	7320.0	-84.0	14589.8	210.8
54	105	17706.3	-1023.1	3289.7	-77.1	-5646.8	-1892.4
	5	-19393.8	1023.1	-3289.7	77.1	-6690.4	-1944.3
55	105	17669.9	-964.8	-815.8	-93.0	1507.9	-1786.4
	5	-19357.4	964.8	815.8	93.0	1550.8	-1831.7
56	105	18501.8	-1635.4	951.3	198.0	-1499.3	-3023.3
	5	-20189.3	1635.4	-951.3	-198.0	-2067.2	-3109.5
57	105	18465.4	-1577.1	-3154.3	182.1	5655.4	-2917.3
	5	-20152.9	1577.1	3154.3	-182.1	6174.0	-2996.8
58	105	13998.3	1873.8	9383.1	-94.6	-16336.4	3460.4
	5	-15685.8	-1873.8	-9383.1	94.6	-18850.5	3566.3
59	105	15958.9	315.5	9162.3	-58.8	-15910.2	582.5
	5	-17646.4	-315.5	-9162.3	58.8	-18448.8	600.8
60	105	14763.8	1300.8	7595.5	124.4	-13167.0	2401.8
	5	-16451.3	-1300.8	-7595.5	-124.4	-15315.9	2476.1
61	105	16724.4	-257.4	7374.7	160.1	-12740.8	-476.1
	5	-18411.9	257.4	-7374.7	-160.1	-14914.2	-489.4
62	105	11579.1	3842.6	4516.8	-209.4	-7919.6	7094.1
	5	-13266.6	-3842.6	-4516.8	209.4	-9019.5	7315.5
63	105	11536.4	3910.7	-282.1	-228.1	443.4	7218.1
	5	-13223.9	-3910.7	282.1	228.1	613.4	7447.2
64	105	12508.9	3126.9	1779.4	112.5	-3064.7	5772.3
	5	-14196.4	-3126.9	-1779.4	-112.5	-3607.3	5953.7
65	105	12466.2	3195.1	-3019.5	93.9	5298.3	5896.2
	5	-14153.7	-3195.1	3019.5	-93.9	6025.7	6085.4
66	105	13856.2	2101.0	-6613.3	-156.7	11540.2	3873.5
	5	-15543.7	-2101.0	6613.3	156.7	13259.4	4005.3
67	105	15816.7	542.8	-6834.0	-121.0	11966.4	995.7
	5	-17504.2	-542.8	6834.0	121.0	13661.1	1039.8
68	105	14621.7	1528.0	-8400.9	62.3	14709.6	2814.9
	5	-16309.2	-1528.0	8400.9	-62.3	16794.0	2915.1
69	105	16582.2	-30.2	-8621.7	98.0	15135.8	-62.9
	5	-18269.7	30.2	8621.7	-98.0	17195.7	-50.4
70	105	18114.3	-1351.5	3781.0	-90.4	-6498.9	-2498.7
	5	-19801.8	1351.5	-3781.0	90.4	-7680.5	-2569.5
71	105	18071.7	-1283.4	-1017.9	-109.0	1864.1	-2374.8
	5	-19759.2	1283.4	1017.9	109.0	1952.5	-2437.8
72	105	19044.1	-2067.2	1043.6	231.5	-1644.0	-3820.6
	5	-20731.6	2067.2	-1043.6	-231.5	-2268.2	-3931.3
73	105	19001.5	-1999.0	-3755.4	212.9	6719.0	-3696.7
	5	-20689.0	1999.0	3755.4	-212.9	7364.7	-3799.6
1	107	16167.3	638.8	2174.7	1.4	-6870.1	1175.0
	7	-18361.0	-638.8	-2174.7	-1.4	-1284.9	1220.4
2	107	12365.5	422.8	1991.3	2.6	-6115.6	724.7
	7	-14559.3	-422.8	-1991.3	-2.6	-1351.9	860.7
3	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
4	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7
5	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7
6	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7
7	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7
8	107	11930.1	409.9	1923.8	2.5	-5917.2	698.6
	7	-14123.8	-409.9	-1923.8	-2.5	-1297.2	838.7
9	107	8898.3	1775.7	7151.9	-90.4	-13099.1	3192.3
	7	-10585.8	-1775.7	-7151.9	90.4	-13721.7	3466.5
10	107	10611.2	168.9	6612.3	-56.2	-12670.9	235.8
	7	-12298.7	-168.9	-6612.3	56.2	-12492.6	397.6
11	107	9505.8	1261.9	6071.4	119.2	-11143.2	2285.0
	7	-11193.3	-1261.9	-6071.4	-119.2	-11257.2	2448.1
12	107	11218.8	-344.9	5531.8	153.3	-10714.9	-671.5
	7	-12906.3	344.9	-5531.8	-153.3	-10028.1	-620.7
13	107	5207.7	3769.7	4356.7	-200.3	-8555.3	6880.3
	7	-6895.2	-3769.7	-4356.7	200.3	-7786.5	7255.9
14	107	3915.0	3499.5	1315.6	-218.1	-3769.5	6389.9
	7	-5602.5	-3499.5	-1315.6	218.1	-1168.1	6732.8
15	107	6183.3	2386.5	3029.7	107.7	-5519.3	4351.1
	7	-7870.8	-2386.5	-3029.7	-107.7	-4617.2	4598.7
16	107	4890.7	2116.3	-11.4	89.9	-733.5	3860.7
	7	-6578.2	-2116.3	11.4	-89.9	2001.2	4075.6
17	107	4589.3	875.0	-2985.2	-149.9	2853.7	1557.5
	7	-6276.8	-875.0	2985.2	149.9	8339.7	1722.7
18	107	6302.3	-731.8	-3524.8	-115.7	3282.0	-1399.0
	7	-7989.8	731.8	3524.8	115.7	9568.8	-1346.1
19	107	5196.9	361.2	-4065.7	59.7	4809.6	650.2
	7	-6884.4	-361.2	4065.7	-59.7	10804.2	704.4
20	107	6909.8	-1245.5	-4605.3	93.9	5237.9	-2306.3
	7	-8597.3	1245.5	4605.3	-93.9	12033.3	-2364.5
21	107	10917.5	-1586.2	2558.0	-86.4	-7127.7	-2974.7
	7	-12605.0	1586.2	-2558.0	86.4	-3689.6	-2973.6
22	107	9624.8	-1856.4	-483.2	-104.2	-2341.9	-3465.2
	7	-11312.3	1856.4	483.2	104.2	2928.8	-3496.7
23	107	11893.1	-2969.3	1231.0	221.6	-4091.7	-5503.9
	7	-13580.6	2969.3	-1231.0	-221.6	-520.3	-5630.8
24	107	10600.5	-3239.5	-1810.2	203.8	694.1	-5994.4
	7	-12288.0	3239.5	1810.2	-203.8	6098.1	-6153.9
25	107	11019.2	426.2	1485.5	1.1	-4698.2	777.9
	7	-12706.7	-426.2	-1485.5	-1.1	-872.5	820.2
26	107	8484.7	282.1	1363.3	1.9	-4195.2	477.7
	7	-10172.2	-282.1	-1363.3	-1.9	-917.1	580.3
27	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
28	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
29	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
30	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
31	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
32	107	8194.4	273.6	1318.3	1.8	-4062.9	460.4
	7	-9881.9	-273.6	-1318.3	-1.8	-880.7	565.7
33	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
34	107	8020.2	268.5	1291.3	1.8	-3983.5	449.9
	7	-9707.7	-268.5	-1291.3	-1.8	-858.8	556.9
35	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
36	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
37	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
38	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
39	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
40	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
41	107	7904.1	265.1	1273.3	1.7	-3930.6	443.0
	7	-9591.6	-265.1	-1273.3	-1.7	-844.2	551.0
42	107	8799.2	1625.3	6566.2	-80.5	-12185.2	2918.6
	7	-10486.7	-1625.3	-6566.2	80.5	-12439.0	3176.4
43	107	10341.8	178.9	6084.9	-50.1	-11801.8	257.1
	7	-12029.3	-178.9	-6084.9	50.1	-11342.7	413.7
44	107	9347.6	1155.2	5590.1	106.7	-10425.0	2088.1
	7	-11035.1	-1155.2	-5590.1	-106.7	-10211.7	2244.7
45	107	10890.3	-291.3	5108.8	137.1	-10041.6	-573.4
	7	-12577.8	291.3	-5108.8	-137.1	-9115.4	-518.0
46	107	5474.9	3421.1	4041.6	-178.6	-8080.7	6240.1
	7	-7162.4	-3421.1	-4041.6	178.6	-7078.7	6589.1
47	107	4310.5	3180.0	1303.1	-194.5	-3771.0	5802.4
	7	-5998.0	-3180.0	-1303.1	194.5	-1119.0	6122.2
48	107	6355.3	2171.7	2847.9	96.5	-5368.1	3955.4
	7	-8042.8	-2171.7	-2847.9	-96.5	-4223.8	4188.6
49	107	5191.0	1930.5	109.4	80.6	-1058.5	3517.6
	7	-6878.5	-1930.5	-109.4	-80.6	1735.9	3721.7
50	107	4917.9	821.4	-2562.2	-133.7	2180.4	1459.4
	7	-6605.4	-821.4	2562.2	133.7	7427.0	1620.0
51	107	6460.6	-625.1	-3043.5	-103.2	2563.7	-1202.2
	7	-8148.1	625.1	3043.5	103.2	8523.3	-1142.6
52	107	5466.3	351.3	-3538.3	53.6	3940.6	628.9
	7	-7153.8	-351.3	3538.3	-53.6	9654.3	688.3
53	107	7009.0	-1095.2	-4019.6	84.0	4323.9	-2032.7
	7	-8696.5	1095.2	4019.6	-84.0	10750.6	-2074.4
54	107	10617.2	-1400.4	2437.2	-77.1	-6802.8	-2631.7
	7	-12304.7	1400.4	-2437.2	77.1	-3424.4	-2619.7
55	107	9452.8	-1641.5	-301.3	-93.0	-2493.1	-3069.4
	7	-11140.3	1641.5	301.3	93.0	2535.4	-3086.6
56	107	11497.6	-2649.8	1243.5	198.0	-4090.2	-4916.4
	7	-13185.1	2649.8	-1243.5	-198.0	-569.5	-5020.2
57	107	10333.2	-2891.0	-1495.0	182.1	219.4	-5354.2
	7	-12020.7	2891.0	1495.0	-182.1	5390.3	-5487.1
58	107	8950.3	1855.1	7460.6	-94.6	-13580.2	3336.7
	7	-10637.8	-1855.1	-7460.6	94.6	-14398.3	3619.8
59	107	10753.5	164.3	6897.3	-58.8	-13130.9	225.7
	7	-12441.0	-164.3	-6897.3	58.8	-13115.5	390.5
60	107	9591.3	1305.9	6319.2	124.4	-11521.9	2366.8
	7	-11278.8	-1305.9	-6319.2	-124.4	-11793.9	2531.5
61	107	11394.5	-384.8	5756.0	160.1	-11072.7	-744.3
	7	-13082.0	384.8	-5756.0	-160.1	-10511.1	-697.7
62	107	5064.8	3954.2	4511.2	-209.4	-8785.2	7219.3
	7	-6752.3	-3954.2	-4511.2	209.4	-8136.0	7609.0
63	107	3703.8	3672.2	1310.2	-228.1	-3747.7	6707.4
	7	-5391.3	-3672.2	-1310.2	228.1	-1169.7	7063.0
64	107	6093.8	2493.8	3113.8	112.5	-5610.9	4548.8
	7	-7781.3	-2493.8	-3113.8	-112.5	-4794.7	4803.1
65	107	4732.8	2211.7	-87.2	93.9	-573.4	4036.8
	7	-6420.3	-2211.7	87.2	-93.9	2171.6	4257.1
66	107	4413.7	914.9	-3209.4	-156.7	3211.5	1630.3
	7	-6101.2	-914.9	3209.4	156.7	8822.7	1799.7
67	107	6216.8	-775.8	-3772.7	-121.0	3660.7	-1480.8
	7	-7904.3	775.8	3772.7	121.0	10105.5	-1429.5
68	107	5054.6	365.8	-4350.8	62.3	5269.7	660.3
	7	-6742.1	-365.8	4350.8	-62.3	11427.1	711.5
69	107	6857.8	-1324.9	-4914.0	98.0	5718.9	-2450.8
	7	-8545.3	1324.9	4914.0	-98.0	12709.8	-2517.8
70	107	11075.3	-1681.6	2633.8	-90.4	-7287.8	-3150.9
	7	-12762.8	1681.6	-2633.8	90.4	-3860.0	-3155.1
71	107	9714.3	-1963.6	-567.3	-109.0	-2250.3	-3662.8
	7	-11401.8	1963.6	567.3	109.0	3106.3	-3701.1
72	107	12104.4	-3142.1	1236.3	231.5	-4113.5	-5821.4
	7	-13791.9	3142.1	-1236.3	-231.5	-518.7	-5961.0
73	107	10743.4	-3424.1	-1964.7	212.9	924.0	-6333.4
	7	-12430.9	3424.1	1964.7	-212.9	6447.6	-6507.0
1	108	25485.0	-1246.0	-785.9	1.4	2609.5	-2780.5
	8	-27678.8	1246.0	785.9	-1.4	337.6	-1892.0
2	108	21720.1	-914.1	-1043.0	2.6	3144.7	-2042.2
	8	-23913.8	914.1	1043.0	-2.6	766.7	-1385.7
3	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
4	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
5	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
6	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
7	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
8	108	21091.9	-884.4	-1011.4	2.5	3056.5	-1976.8
	8	-23285.6	884.4	1011.4	-2.5	736.3	-1339.8
9	108	12503.2	79.9	1687.3	-90.4	-2158.9	-147.2
	8	-14190.7	-79.9	-1687.3	90.4	-4168.5	446.8
10	108	12045.5	-4141.5	1658.5	-56.2	-2107.1	-7476.7
	8	-13733.0	4141.5	-1658.5	56.2	-4112.3	-8054.1
11	108	12888.9	4054.2	1573.0	119.2	-1958.5	6772.1
	8	-14576.4	-4054.2	-1573.0	-119.2	-3940.0	8431.4
12	108	12431.1	-167.2	1544.1	153.3	-1906.7	-557.4
	8	-14118.6	167.2	-1544.1	-153.3	-3883.8	-69.6
13	108	14132.0	4113.0	167.1	-200.3	541.0	6836.6
	8	-15819.5	-4113.0	-167.1	200.3	-1167.8	8587.1
14	108	15118.1	3778.7	-1200.6	-218.1	2970.5	6242.6
	8	-16805.6	-3778.7	1200.6	218.1	1531.7	7927.6
15	108	14629.2	9091.3	-31.0	107.7	889.6	15504.5
	8	-16316.7	-9091.3	31.0	-107.7	-773.0	18587.7
16	108	15615.3	8757.0	-1398.8	89.9	3319.2	14910.5
	8	-17302.8	-8757.0	1398.8	-89.9	1926.5	17928.2
17	108	15790.4	-1034.3	-2871.8	-149.9	5939.5	-2127.1
	8	-17477.9	1034.3	2871.8	149.9	4829.9	-1751.5
18	108	15332.6	-5255.7	-2900.7	-115.7	5991.3	-9456.6
	8	-17020.1	5255.7	2900.7	115.7	4886.1	-10252.4
19	108	16176.0	2940.0	-2986.2	59.7	6139.9	4792.2
	8	-17863.5	-2940.0	2986.2	-59.7	5058.3	6233.1
20	108	15718.3	-1281.4	-3015.0	93.9	6191.8	-2537.3
	8	-17405.8	1281.4	3015.0	-93.9	5114.5	-2267.9
21	108	12606.2	-9958.5	71.1	-86.4	713.7	-17595.0
	8	-14293.7	9958.5	-71.1	86.4	-980.4	-19749.3
22	108	13592.3	-10292.7	-1296.7	-104.2	3143.2	-18189.0
	8	-15279.8	10292.7	1296.7	104.2	1719.1	-20408.8
23	108	13103.4	-4980.2	-127.1	221.6	1062.3	-8927.1
	8	-14790.9	4980.2	127.1	-221.6	-585.6	-9748.7
24	108	14089.5	-5314.5	-1494.8	203.8	3491.8	-9521.1
	8	-15777.0	5314.5	1494.8	-203.8	2113.9	-10408.2
25	108	17458.3	-861.6	-534.6	1.1	1777.3	-1921.7
	8	-19145.8	861.6	534.6	-1.1	227.5	-1309.3
26	108	14948.4	-640.3	-706.0	1.9	2134.1	-1429.5
	8	-16635.9	640.3	706.0	-1.9	513.5	-971.8
27	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
28	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
29	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
30	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
31	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
32	108	14529.6	-620.5	-684.9	1.8	2075.3	-1385.9
	8	-16217.1	620.5	684.9	-1.8	493.3	-941.2
33	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
34	108	14278.3	-608.7	-672.3	1.8	2039.9	-1359.7
	8	-15965.8	608.7	672.3	-1.8	481.1	-922.8
35	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
36	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
37	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
38	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
39	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
40	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
41	108	14110.7	-600.7	-663.9	1.7	2016.4	-1342.2
	8	-15798.2	600.7	663.9	-1.7	473.0	-910.5
42	108	12660.8	0.9	1453.9	-80.5	-1744.4	-285.7
	8	-14348.3	-0.9	-1453.9	80.5	-3707.6	288.9
43	108	12250.3	-3786.3	1428.0	-50.1	-1697.8	-6861.1
	8	-13937.8	3786.3	-1428.0	50.1	-3657.1	-7337.7
44	108	13011.3	3578.1	1350.8	106.7	-1563.7	5942.4
	8	-14698.8	-3578.1	-1350.8	-106.7	-3501.6	7475.7
45	108	12600.7	-209.1	1324.9	137.1	-1517.1	-633.0
	8	-14288.2	209.1	-1324.9	-137.1	-3451.1	-151.0
46	108	14123.8	3594.5	84.3	-178.6	688.1	5936.4
	8	-15811.3	-3594.5	-84.3	178.6	-1004.1	7542.9
47	108	15011.8	3296.5	-1147.7	-194.5	2876.3	5406.6
	8	-16699.3	-3296.5	1147.7	194.5	1427.3	6955.2
48	108	14578.1	8126.0	-93.7	96.5	1001.2	13826.8
	8	-16265.6	-8126.0	93.7	-96.5	-649.6	16645.9
49	108	15466.1	7828.1	-1325.6	80.6	3189.5	13297.1
	8	-17153.6	-7828.1	1325.6	-80.6	1781.9	16058.2
50	108	15620.8	-992.4	-2652.6	-133.7	5549.9	-2051.5
	8	-17308.3	992.4	2652.6	133.7	4397.2	-1670.1
51	108	15210.2	-4779.6	-2678.5	-103.2	5596.5	-8626.9
	8	-16897.7	4779.6	2678.5	103.2	4447.7	-9296.7
52	108	15971.2	2584.9	-2755.7	53.6	5730.6	4176.6
	8	-17658.7	-2584.9	2755.7	-53.6	4603.2	5516.7
53	108	15560.7	-1202.3	-2781.6	84.0	5777.2	-2398.7
	8	-17248.2	1202.3	2781.6	-84.0	4653.7	-2110.0
54	108	12755.4	-9029.5	-2.1	-77.1	843.3	-15981.5
	8	-14442.9	9029.5	2.1	77.1	-835.8	-17879.2
55	108	13643.4	-9327.5	-1234.0	-93.0	3031.6	-16511.3
	8	-15330.9	9327.5	1234.0	93.0	1595.6	-18466.9
56	108	13209.7	-4498.0	-180.1	198.0	1156.5	-8091.1
	8	-14897.2	4498.0	180.1	-198.0	-481.2	-8776.3
57	108	14097.7	-4796.0	-1412.0	182.1	3344.8	-8620.8
	8	-15785.2	4796.0	1412.0	-182.1	1950.2	-9364.0
58	108	12416.4	106.2	1811.5	-94.6	-2379.5	-100.8
	8	-14103.9	-106.2	-1811.5	94.6	-4413.6	498.9
59	108	11936.1	-4324.3	1781.2	-58.8	-2325.0	-7793.0
	8	-13623.6	4324.3	-1781.2	58.8	-4354.5	-8423.0
60	108	12825.5	4284.7	1691.0	124.4	-2168.2	7174.1
	8	-14513.0	-4284.7	-1691.0	-124.4	-4172.8	8893.6
61	108	12345.2	-145.7	1660.7	160.1	-2113.8	-518.1
	8	-14032.7	145.7	-1660.7	-160.1	-4113.8	-28.3
62	108	14127.4	4315.2	210.7	-209.4	463.6	7187.0
	8	-15814.9	-4315.2	-210.7	209.4	-1253.7	8995.1
63	108	15165.4	3966.7	-1229.3	-228.1	3021.4	6567.3
	8	-16852.9	-3966.7	1229.3	228.1	1588.3	8307.6
64	108	14657.0	9599.9	2.6	112.5	829.8	16388.8
	8	-16344.5	-9599.9	-2.6	-112.5	-839.1	19611.0
65	108	15695.0	9251.4	-1437.4	93.9	3387.6	15769.1
	8	-17382.5	-9251.4	1437.4	-93.9	2002.9	18923.5
66	108	15876.3	-1055.7	-2988.4	-156.7	6146.6	-2166.3
	8	-17563.8	1055.7	2988.4	156.7	5059.8	-1792.7
67	108	15396.0	-5486.2	-3018.7	-121.0	6201.0	-9858.5
	8	-17083.5	5486.2	3018.7	121.0	5118.9	-10714.7
68	108	16285.4	3122.8	-3108.9	62.3	6357.8	5108.6
	8	-17972.9	-3122.8	3108.9	-62.3	5300.6	6602.0
69	108	15805.1	-1307.6	-3139.2	98.0	6412.3	-2583.6
	8	-17492.6	1307.6	3139.2	-98.0	5359.7	-2319.9
70	108	12526.5	-10452.8	109.7	-90.4	645.2	-18453.6
	8	-14214.0	10452.8	-109.7	90.4	-1056.8	-20744.6
71	108	13564.5	-10801.4	-1330.3	-109.0	3203.0	-19073.2
	8	-15252.0	10801.4	1330.3	109.0	1785.2	-21432.1
72	108	13056.1	-5168.1	-98.4	231.5	1011.4	-9251.8
	8	-14743.6	5168.1	98.4	-231.5	-642.2	-10128.7
73	108	14094.1	-5516.7	-1538.4	212.9	3569.2	-9871.5
	8	-15781.6	5516.7	1538.4	-212.9	2199.8	-10816.2
1	9	39004.9	-699.8	248.9	1.4	-143.5	-1912.4
	109	-36811.2	699.8	-248.9	-1.4	-790.0	-711.9
2	9	38962.1	-664.2	240.5	2.6	-128.7	-1785.0
	109	-36768.4	664.2	-240.5	-2.6	-773.4	-705.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
3	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
4	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
5	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
6	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
7	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
8	9	38039.5	-654.1	237.4	2.5	-131.4	-1756.9
	109	-35845.8	654.1	-237.4	-2.5	-759.0	-696.1
9	9	25790.8	-1826.0	2922.0	-90.4	-5387.5	-4039.1
	109	-24103.3	1826.0	-2922.0	90.4	-5570.1	-2808.2
10	9	25487.0	2471.0	2859.0	-56.2	-5266.6	4796.6
	109	-23799.5	-2471.0	-2859.0	56.2	-5454.5	4469.5
11	9	25973.3	-4009.7	2821.8	119.2	-5196.6	-8521.0
	109	-24285.8	4009.7	-2821.8	-119.2	-5385.3	-6515.3
12	9	25669.5	287.2	2758.8	153.3	-5075.7	314.7
	109	-23982.0	-287.2	-2758.8	-153.3	-5269.8	762.4
13	9	26106.5	-6342.8	1132.2	-200.3	-1956.0	-13330.4
	109	-24419.0	6342.8	-1132.2	200.3	-2289.8	-10454.9
14	9	26092.7	-6140.6	-480.2	-218.1	1135.5	-12916.3
	109	-24405.2	6140.6	480.2	218.1	665.3	-10110.9
15	9	26334.4	-9047.3	996.4	107.7	-1696.5	-18879.9
	109	-24646.9	9047.3	-996.4	-107.7	-2040.1	-15047.4
16	9	26320.7	-8845.1	-616.0	89.9	1395.0	-18465.8
	109	-24633.2	8845.1	616.0	-89.9	915.0	-14703.4
17	9	25744.9	-1152.0	-2452.7	-149.9	4917.5	-2658.6
	109	-24057.4	1152.0	2452.7	149.9	4280.1	-1661.5
18	9	25441.1	3144.9	-2515.7	-115.7	5038.4	6177.0
	109	-23753.6	-3144.9	2515.7	115.7	4395.6	5616.3
19	9	25927.4	-3335.8	-2552.9	59.7	5108.4	-7140.5
	109	-24239.9	3335.8	2552.9	-59.7	4464.9	-5368.6
20	9	25623.6	961.1	-2615.9	93.9	5229.3	1695.1
	109	-23936.1	-961.1	2615.9	-93.9	4580.4	1909.2
21	9	25093.8	7980.3	922.1	-86.4	-1553.2	16121.8
	109	-23406.3	-7980.3	-922.1	86.4	-1904.7	13804.3
22	9	25080.0	8182.5	-690.3	-104.2	1538.3	16536.0
	109	-23392.5	-8182.5	690.3	104.2	1050.4	14148.4
23	9	25321.7	5275.8	786.3	221.6	-1293.7	10572.3
	109	-23634.2	-5275.8	-786.3	-221.6	-1654.9	9211.8
24	9	25307.9	5477.9	-826.1	203.8	1797.8	10986.5
	109	-23620.4	-5477.9	826.1	-203.8	1300.1	9555.8
25	9	26965.9	-469.6	162.8	1.1	-85.3	-1294.3
	109	-25278.4	469.6	-162.8	-1.1	-525.2	-466.7
26	9	26937.3	-445.9	157.2	1.9	-75.4	-1209.4
	109	-25249.8	445.9	-157.2	-1.9	-514.0	-462.7
27	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
28	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
29	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
30	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
31	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
32	9	26322.3	-439.1	155.1	1.8	-77.2	-1190.7
	109	-24634.8	439.1	-155.1	-1.8	-504.4	-456.1
33	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
34	9	25953.2	-435.1	153.9	1.8	-78.3	-1179.5
	109	-24265.7	435.1	-153.9	-1.8	-498.7	-452.2
35	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
36	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
37	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
38	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
39	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
40	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
41	9	25707.2	-432.4	153.0	1.7	-79.1	-1172.0
	109	-24019.7	432.4	-153.0	-1.7	-494.8	-449.5
42	9	25782.2	-1684.5	2647.1	-80.5	-4860.5	-3748.0
	109	-24094.7	1684.5	-2647.1	80.5	-5066.2	-2568.8
43	9	25509.0	2181.0	2590.5	-50.1	-4752.0	4200.4
	109	-23821.5	-2181.0	-2590.5	50.1	-4962.5	3978.2
44	9	25946.3	-3648.4	2556.6	106.7	-4688.0	-7778.8
	109	-24258.8	3648.4	-2556.6	-106.7	-4899.3	-5902.7
45	9	25673.1	217.1	2500.0	137.1	-4579.4	169.7
	109	-23985.6	-217.1	-2500.0	-137.1	-4795.5	644.2
46	9	26065.3	-5739.3	1034.7	-178.6	-1769.1	-12089.1
	109	-24377.8	5739.3	-1034.7	178.6	-2111.1	-9433.2
47	9	26053.0	-5558.5	-417.6	-194.5	1015.4	-11718.8
	109	-24365.5	5558.5	417.6	194.5	550.5	-9125.6
48	9	26272.1	-8191.1	912.4	96.5	-1535.3	-17120.0
	109	-24584.6	8191.1	-912.4	-96.5	-1886.0	-13596.6
49	9	26259.8	-8010.3	-540.0	80.6	1249.2	-16749.7
	109	-24572.3	8010.3	540.0	-80.6	775.6	-13289.0
50	9	25741.3	-1081.9	-2193.9	-133.7	4421.3	-2513.7
	109	-24053.8	1081.9	2193.9	133.7	3805.8	-1543.3
51	9	25468.1	2783.6	-2250.5	-103.2	4529.8	5434.8
	109	-23780.6	-2783.6	2250.5	103.2	3909.6	5003.6
52	9	25905.5	-3045.8	-2284.4	53.6	4593.8	-6544.4
	109	-24218.0	3045.8	2284.4	-53.6	3972.8	-4877.3
53	9	25632.3	819.7	-2341.0	84.0	4702.3	1404.1
	109	-23944.8	-819.7	2341.0	-84.0	4076.6	1669.7
54	9	25154.6	7145.5	846.0	-77.1	-1407.4	14405.7
	109	-23467.1	-7145.5	-846.0	77.1	-1765.2	12389.9
55	9	25142.4	7326.3	-606.3	-93.0	1377.1	14776.1
	109	-23454.9	-7326.3	606.3	93.0	896.4	12697.5
56	9	25361.4	4693.7	723.7	198.0	-1173.6	9374.9
	109	-23673.9	-4693.7	-723.7	-198.0	-1540.2	8226.5
57	9	25349.1	4874.5	-728.6	182.1	1611.0	9745.2
	109	-23661.6	-4874.5	728.6	-182.1	1121.4	8534.1
58	9	25794.9	-1897.2	3068.3	-94.6	-5667.9	-4185.6
	109	-24107.4	1897.2	-3068.3	94.6	-5838.2	-2928.7
59	9	25475.5	2622.3	3002.1	-58.8	-5541.0	5107.6
	109	-23788.0	-2622.3	-3002.1	58.8	-5716.9	4725.8
60	9	25986.7	-4191.9	2962.5	124.4	-5466.3	-8895.2
	109	-24299.2	4191.9	-2962.5	-124.4	-5643.0	-6824.2
61	9	25667.3	327.6	2896.3	160.1	-5339.4	398.0
	109	-23979.8	-327.6	-2896.3	-160.1	-5521.7	830.4
62	9	26126.1	-6639.6	1183.7	-209.4	-2054.7	-13941.2
	109	-24438.6	6639.6	-1183.7	209.4	-2384.1	-10957.3
63	9	26111.8	-6428.2	-513.9	-228.1	1200.1	-13508.1
	109	-24424.3	6428.2	513.9	228.1	726.9	-10597.5
64	9	26367.4	-9501.4	1040.6	112.5	-1781.2	-19813.3
	109	-24679.9	9501.4	-1040.6	-112.5	-2121.0	-15816.9
65	9	26353.1	-9289.9	-657.0	93.9	1473.5	-19380.2
	109	-24665.6	9289.9	657.0	-93.9	990.1	-15457.1
66	9	25747.1	-1192.4	-2590.2	-156.7	5181.2	-2742.0
	109	-24059.6	1192.4	2590.2	156.7	4532.0	-1729.4
67	9	25427.7	3327.0	-2656.4	-121.0	5308.1	6551.3
	109	-23740.2	-3327.0	2656.4	121.0	4653.4	5925.1
68	9	25938.9	-3487.1	-2696.0	62.3	5382.9	-7451.6
	109	-24251.4	3487.1	2696.0	-62.3	4727.2	-5624.9
69	9	25619.5	1032.4	-2762.2	98.0	5509.8	1841.6
	109	-23932.0	-1032.4	2762.2	-98.0	4848.5	2029.7
70	9	25061.3	8425.1	963.1	-90.4	-1631.7	17036.2
	109	-23373.8	-8425.1	-963.1	90.4	-1979.8	14558.0
71	9	25047.0	8636.6	-734.5	-109.0	1623.0	17469.3
	109	-23359.5	-8636.6	734.5	109.0	1131.3	14917.8
72	9	25302.6	5563.3	820.0	231.5	-1358.2	11164.1
	109	-23615.1	-5563.3	-820.0	-231.5	-1716.6	9698.4
73	9	25288.3	5774.8	-877.6	212.9	1896.5	11597.2
	109	-23600.8	-5774.8	877.6	-212.9	1394.5	10058.2
1	10	34931.9	-1286.2	-328.3	1.4	539.9	-3010.4
	110	-32738.2	1286.2	328.3	-1.4	691.4	-1812.8
2	10	34814.5	-1132.7	-313.7	2.6	514.9	-2725.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	110	-32620.7	1132.7	313.7	-2.6	661.6	-1522.4
3	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
4	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
5	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
6	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
7	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
8	10	33986.7	-1095.8	-303.0	2.5	497.4	-2642.5
	110	-31793.0	1095.8	303.0	-2.5	639.0	-1466.7
9	10	23256.1	-2999.0	2591.4	-90.4	-5036.8	-6425.0
	110	-21568.6	2999.0	-2591.4	90.4	-4681.0	-4821.2
10	10	22909.4	1390.4	2528.2	-56.2	-4915.3	2576.0
	110	-21221.9	-1390.4	-2528.2	56.2	-4617.1	2638.1
11	10	23285.1	-2424.7	2485.9	119.2	-4833.1	-5246.4
	110	-21597.6	2424.7	-2485.9	-119.2	-4437.2	-3846.2
12	10	22938.4	1964.7	2422.7	153.3	-4711.6	3754.7
	110	-21250.9	-1964.7	-2422.7	-153.3	-4373.3	3613.1
13	10	23584.1	-7943.7	785.3	-200.3	-1564.4	-16567.8
	110	-21896.6	7943.7	-785.3	200.3	-1380.5	-13221.0
14	10	23520.0	-8079.5	-840.1	-218.1	1560.5	-16846.2
	110	-21832.5	8079.5	840.1	218.1	1589.7	-13451.8
15	10	23616.3	-8038.8	647.0	107.7	-1297.3	-16755.7
	110	-21928.8	8038.8	-647.0	-107.7	-956.5	-13389.9
16	10	23552.2	-8174.6	-978.4	89.9	1827.7	-17034.2
	110	-21864.7	8174.6	978.4	-89.9	2013.7	-13620.7
17	10	23042.3	-3451.6	-2826.5	-149.9	5379.7	-7353.1
	110	-21354.8	3451.6	2826.5	149.9	5219.5	-5590.4
18	10	22695.6	937.8	-2889.7	-115.7	5501.1	1647.9
	110	-21008.1	-937.8	2889.7	115.7	5283.4	1868.9
19	10	23071.3	-2877.3	-2932.0	59.7	5583.4	-6174.5
	110	-21383.8	2877.3	2932.0	-59.7	5463.3	-4615.4
20	10	22724.7	1512.1	-2995.2	93.9	5704.8	2826.6
	110	-21037.2	-1512.1	2995.2	-93.9	5527.2	2843.9
21	10	22428.5	6687.7	574.6	-86.4	-1159.7	13435.7
	110	-20741.0	-6687.7	-574.6	86.4	-1167.5	11643.3
22	10	22364.4	6552.0	-1050.8	-104.2	1965.3	13157.3
	110	-20676.9	-6552.0	1050.8	104.2	1802.7	11412.6
23	10	22460.8	6592.6	436.3	221.6	-892.5	13247.8
	110	-20773.3	-6592.6	-436.3	-221.6	-743.5	11474.4
24	10	22396.6	6456.8	-1189.1	203.8	2232.4	12969.3
	110	-20709.1	-6456.8	1189.1	-203.8	2226.7	11243.7
25	10	24172.3	-895.0	-225.9	1.1	374.0	-2099.5
	110	-22484.8	895.0	225.9	-1.1	473.1	-1256.6
26	10	24094.0	-792.6	-216.1	1.9	357.3	-1909.3
	110	-22406.5	792.6	216.1	-1.9	453.2	-1063.0
27	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
28	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
29	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
30	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
31	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
32	10	23542.2	-768.0	-209.0	1.8	345.7	-1854.3
	110	-21854.7	768.0	209.0	-1.8	438.2	-1025.8
33	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
34	10	23211.1	-753.3	-204.7	1.8	338.7	-1821.2
	110	-21523.6	753.3	204.7	-1.8	429.1	-1003.5
35	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
36	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
37	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
38	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
39	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
40	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
41	10	22990.4	-743.4	-201.9	1.7	334.0	-1799.2
	110	-21302.9	743.4	201.9	-1.7	423.1	-988.7
42	10	23229.6	-2774.0	2314.1	-80.5	-4503.5	-5963.6
	110	-21542.1	2774.0	-2314.1	80.5	-4174.2	-4438.9
43	10	22917.4	1178.7	2257.3	-50.1	-4394.6	2141.9
	110	-21229.9	-1178.7	-2257.3	50.1	-4116.7	2278.3
44	10	23255.8	-2257.9	2218.7	106.7	-4319.5	-4904.3
	110	-21568.3	2257.9	-2218.7	-106.7	-3954.4	-3562.7
45	10	22943.7	1694.9	2162.0	137.1	-4210.5	3201.2
	110	-21256.2	-1694.9	-2162.0	-137.1	-3896.9	3154.5
46	10	23524.9	-7225.8	686.9	-178.6	-1375.2	-15095.4
	110	-21837.4	7225.8	-686.9	178.6	-1200.7	-12001.4
47	10	23467.1	-7348.1	-777.1	-194.5	1439.5	-15346.2
	110	-21779.6	7348.1	777.1	194.5	1474.5	-12209.3
48	10	23554.2	-7314.5	562.4	96.5	-1134.7	-15270.7
	110	-21866.7	7314.5	-562.4	-96.5	-819.8	-12158.6
49	10	23496.4	-7436.8	-901.6	80.6	1680.0	-15521.6
	110	-21808.9	7436.8	901.6	-80.6	1855.4	-12366.5
50	10	23037.1	-3181.7	-2565.8	-133.7	4878.5	-6799.7
	110	-21349.6	3181.7	2565.8	133.7	4743.2	-5131.8
51	10	22724.9	771.0	-2622.5	-103.2	4987.5	1305.9
	110	-21037.4	-771.0	2622.5	103.2	4800.6	1585.4
52	10	23063.3	-2665.6	-2661.1	53.6	5062.6	-5740.4
	110	-21375.8	2665.6	2661.1	-53.6	4963.0	-4255.6
53	10	22751.1	1287.1	-2717.9	84.0	5171.6	2365.2
	110	-21063.6	-1287.1	2717.9	-84.0	5020.4	2461.6
54	10	22484.3	5949.9	497.8	-77.1	-1012.0	11923.1
	110	-20796.8	-5949.9	-497.8	77.1	-1009.1	10389.2
55	10	22426.6	5827.6	-966.2	-93.0	1802.7	11672.3
	110	-20739.1	-5827.6	966.2	93.0	1666.1	10181.3
56	10	22513.6	5861.3	373.3	198.0	-771.4	11747.8
	110	-20826.1	-5861.3	-373.3	-198.0	-628.3	10232.0
57	10	22455.8	5738.9	-1090.7	182.1	2043.2	11496.9
	110	-20768.3	-5738.9	1090.7	-182.1	2046.9	10024.1
58	10	23270.0	-3117.1	2738.9	-94.6	-5320.5	-6667.3
	110	-21582.5	3117.1	-2738.9	94.6	-4950.6	-5021.9
59	10	22905.1	1503.3	2672.6	-58.8	-5193.0	2807.5
	110	-21217.6	-1503.3	-2672.6	58.8	-4883.3	2829.9
60	10	23300.7	-2513.6	2627.5	124.4	-5105.3	-5428.7
	110	-21613.2	2513.6	-2627.5	-124.4	-4693.6	-3997.3
61	10	22935.8	2106.8	2561.2	160.1	-4977.9	4046.1
	110	-21248.3	-2106.8	-2561.2	-160.1	-4626.4	3854.6
62	10	23615.2	-8321.2	837.1	-209.4	-1664.0	-17342.2
	110	-21927.7	8321.2	-837.1	209.4	-1475.1	-13862.4
63	10	23547.7	-8464.2	-874.1	-228.1	1625.9	-17635.4
	110	-21860.2	8464.2	874.1	228.1	1651.9	-14105.4
64	10	23649.4	-8424.1	691.4	112.5	-1382.7	-17545.6
	110	-21961.9	8424.1	-691.4	-112.5	-1029.7	-14044.8
65	10	23581.8	-8567.1	-1019.7	93.9	1907.2	-17838.7
	110	-21894.3	8567.1	1019.7	-93.9	2097.2	-14287.8
66	10	23045.0	-3593.7	-2965.0	-156.7	5645.9	-7644.6
	110	-21357.5	3593.7	2965.0	156.7	5472.6	-5831.9
67	10	22680.1	1026.7	-3031.3	-121.0	5773.4	1830.2
	110	-20992.6	-1026.7	3031.3	121.0	5539.9	2020.0
68	10	23075.6	-2990.2	-3076.4	62.3	5861.1	-6405.9
	110	-21388.1	2990.2	3076.4	-62.3	5729.6	-4807.2
69	10	22710.7	1630.3	-3142.7	98.0	5988.5	3068.8
	110	-21023.2	-1630.3	3142.7	-98.0	5796.8	3044.6
70	10	22398.9	7080.2	616.0	-90.4	-1239.2	14240.3
	110	-20711.4	-7080.2	-616.0	90.4	-1251.0	12310.5
71	10	22331.4	6937.2	-1095.2	-109.0	2050.7	13947.1
	110	-20643.9	-6937.2	1095.2	109.0	1876.0	12067.5
72	10	22433.0	6977.3	470.3	231.5	-957.9	14036.9
	110	-20745.5	-6977.3	-470.3	-231.5	-805.7	12128.0
73	10	22365.5	6834.4	-1240.9	212.9	2332.0	13743.8
	110	-20678.0	-6834.4	1240.9	-212.9	2321.3	11885.1
1	12	41431.4	-582.2	-63.4	1.4	-44.8	-1556.0
	112	-39237.7	582.2	63.4	-1.4	282.4	-627.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
2	12	41297.9	-481.7	-66.7	2.6	-45.8	-1296.9
	112	-39104.2	481.7	66.7	-2.6	295.8	-509.4
3	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
4	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
5	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
6	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
7	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
8	12	40312.6	-469.8	-68.5	2.5	-38.4	-1265.7
	112	-38118.9	469.8	68.5	-2.5	295.2	-496.2
9	12	27128.9	-3211.0	2737.1	-90.4	-5363.2	-6824.2
	112	-25441.4	3211.0	-2737.1	90.4	-4901.1	-4476.9
10	12	26862.9	1591.0	2704.4	-56.2	-5300.8	3060.0
	112	-25175.4	-1591.0	-2704.4	56.2	-4840.7	3646.7
11	12	27079.7	-1440.5	2596.9	119.2	-5095.7	-3188.5
	112	-25392.2	1440.5	-2596.9	-119.2	-4642.6	-2213.4
12	12	26813.7	3361.5	2564.2	153.3	-5033.3	6695.8
	112	-25126.2	-3361.5	-2564.2	-153.3	-4582.2	5910.1
13	12	27617.2	-9298.2	941.2	-200.3	-1918.5	-19344.0
	112	-25929.7	9298.2	-941.2	200.3	-1611.2	-15302.1
14	12	27756.4	-9529.8	-674.0	-218.1	1180.1	-19813.1
	112	-26068.9	9529.8	674.0	218.1	1347.4	-15923.6
15	12	27536.8	-7098.7	700.2	107.7	-1456.1	-14826.6
	112	-25849.3	7098.7	-700.2	-107.7	-1169.8	-11793.4
16	12	27675.9	-7330.3	-915.0	89.9	1642.6	-15295.8
	112	-25988.4	7330.3	915.0	-89.9	1788.8	-12414.9
17	12	27592.7	-3983.1	-2647.1	-149.9	4965.5	-8388.1
	112	-25905.2	3983.1	2647.1	149.9	4961.1	-6548.5
18	12	27326.7	819.0	-2679.9	-115.7	5028.0	1496.1
	112	-25639.2	-819.0	2679.9	115.7	5021.5	1575.1
19	12	27543.6	-2212.6	-2787.3	59.7	5233.0	-4752.4
	112	-25856.1	2212.6	2787.3	-59.7	5219.5	-4285.0
20	12	27277.6	2589.5	-2820.1	93.9	5295.5	5131.9
	112	-25590.1	-2589.5	2820.1	-93.9	5279.9	3838.6
21	12	26730.5	6708.8	832.1	-86.4	-1710.3	13603.4
	112	-25043.0	-6708.8	-832.1	86.4	-1410.0	11776.5
22	12	26869.7	6477.2	-783.2	-104.2	1388.3	13134.2
	112	-25182.2	-6477.2	783.2	104.2	1548.7	11155.1
23	12	26650.1	8908.3	591.1	221.6	-1247.9	18120.8
	112	-24962.6	-8908.3	-591.1	-221.6	-968.6	15285.2
24	12	26789.2	8676.6	-1024.2	203.8	1850.7	17651.6
	112	-25101.7	-8676.6	1024.2	-203.8	1990.1	14663.7
25	12	28605.9	-393.6	-36.9	1.1	-43.1	-1060.6
	112	-26918.4	393.6	36.9	-1.1	181.3	-415.4
26	12	28516.9	-326.6	-39.1	1.9	-43.7	-887.9
	112	-26829.4	326.6	39.1	-1.9	190.2	-336.8
27	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
28	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
29	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
30	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
31	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
32	12	27860.1	-318.7	-40.3	1.8	-38.8	-867.0
	112	-26172.6	318.7	40.3	-1.8	189.8	-328.0
33	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
34	12	27466.0	-313.9	-41.0	1.8	-35.8	-854.5
	112	-25778.5	313.9	41.0	-1.8	189.6	-322.7
35	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
36	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
37	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
38	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
39	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
40	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
41	12	27203.2	-310.8	-41.5	1.7	-33.9	-846.2
	112	-25515.7	310.8	41.5	-1.7	189.4	-319.2
42	12	27136.3	-2920.8	2461.2	-80.5	-4834.0	-6226.3
	112	-25448.8	2920.8	-2461.2	80.5	-4395.6	-4069.3
43	12	26896.7	1404.1	2431.8	-50.1	-4778.0	2675.9
	112	-25209.2	-1404.1	-2431.8	50.1	-4341.4	3247.2
44	12	27091.9	-1331.7	2334.8	106.7	-4592.9	-2962.9
	112	-25404.4	1331.7	-2334.8	-106.7	-4162.6	-2031.0
45	12	26852.3	2993.2	2305.4	137.1	-4536.8	5939.3
	112	-25164.8	-2993.2	-2305.4	-137.1	-4108.4	5285.5
46	12	27576.2	-8406.2	843.2	-178.6	-1730.4	-17508.3
	112	-25888.7	8406.2	-843.2	178.6	-1431.5	-13817.8
47	12	27701.5	-8614.4	-611.7	-194.5	1060.5	-17929.9
	112	-26014.0	8614.4	611.7	194.5	1233.3	-14374.2
48	12	27503.5	-6423.6	626.8	96.5	-1315.1	-13436.3
	112	-25816.0	6423.6	-626.8	-96.5	-1035.2	-10652.3
49	12	27628.9	-6631.8	-828.1	80.6	1475.8	-13857.9
	112	-25941.4	6631.8	828.1	-80.6	1629.7	-11208.7
50	12	27554.1	-3614.8	-2388.4	-133.7	4469.1	-7631.7
	112	-25866.6	3614.8	2388.4	133.7	4487.2	-5923.8
51	12	27314.5	710.2	-2417.8	-103.2	4525.1	1270.5
	112	-25627.0	-710.2	2417.8	103.2	4541.4	1392.6
52	12	27509.7	-2025.6	-2514.8	53.6	4710.2	-4368.2
	112	-25822.2	2025.6	2514.8	-53.6	4720.2	-3885.5
53	12	27270.2	2299.3	-2544.2	84.0	4766.3	4533.9
	112	-25582.7	-2299.3	2544.2	-84.0	4774.5	3430.9
54	12	26777.6	6010.3	745.2	-77.1	-1543.5	12165.6
	112	-25090.1	-6010.3	-745.2	77.1	-1250.8	10570.3
55	12	26902.9	5802.1	-709.7	-93.0	1247.4	11743.9
	112	-25215.4	-5802.1	709.7	93.0	1414.0	10014.0
56	12	26704.9	7992.9	528.8	198.0	-1128.2	16237.5
	112	-25017.4	-7992.9	-528.8	-198.0	-854.5	13735.9
57	12	26830.3	7784.7	-926.1	182.1	1662.7	15815.9
	112	-25142.8	-7784.7	926.1	-182.1	1810.4	13179.5
58	12	27125.0	-3361.5	2883.9	-94.6	-5644.7	-7134.7
	112	-25437.5	3361.5	-2883.9	94.6	-5169.9	-4702.5
59	12	26844.9	1693.7	2849.5	-58.8	-5579.1	3270.6
	112	-25157.4	-1693.7	-2849.5	58.8	-5106.5	3849.4
60	12	27073.1	-1503.9	2736.1	124.4	-5362.8	-3319.8
	112	-25385.6	1503.9	-2736.1	-124.4	-4897.5	-2319.6
61	12	26793.1	3551.4	2701.7	160.1	-5297.2	7085.5
	112	-25105.6	-3551.4	-2701.7	-160.1	-4834.1	6232.2
62	12	27639.1	-9773.1	992.7	-209.4	-2017.2	-20321.5
	112	-25951.6	9773.1	-992.7	209.4	-1705.5	-16097.0
63	12	27785.6	-10016.5	-707.9	-228.1	1245.1	-20814.5
	112	-26098.1	10016.5	707.9	228.1	1409.4	-16747.4
64	12	27554.3	-7455.8	739.6	112.5	-1531.5	-15562.2
	112	-25866.8	7455.8	-739.6	-112.5	-1242.0	-12397.1
65	12	27700.8	-7699.2	-960.9	93.9	1730.7	-16055.1
	112	-26013.3	7699.2	960.9	-93.9	1872.9	-13047.5
66	12	27613.3	-4172.9	-2784.6	-156.7	5229.4	-8777.9
	112	-25925.8	4172.9	2784.6	156.7	5212.9	-6870.6
67	12	27333.3	882.3	-2819.0	-121.0	5295.0	1627.4
	112	-25645.8	-882.3	2819.0	121.0	5276.4	1681.2
68	12	27561.5	-2315.2	-2932.4	62.3	5511.3	-4963.0
	112	-25874.0	2315.2	2932.4	-62.3	5485.3	-4487.7
69	12	27281.5	2740.0	-2966.8	98.0	5576.9	5442.3
	112	-25594.0	-2740.0	2966.8	-98.0	5548.8	4064.1
70	12	26705.7	7077.7	878.0	-90.4	-1798.5	14362.7
	112	-25018.2	-7077.7	-878.0	90.4	-1494.0	12409.2
71	12	26852.2	6834.3	-822.6	-109.0	1463.8	13869.8
	112	-25164.7	-6834.3	822.6	109.0	1620.8	11758.7
72	12	26620.8	9395.0	624.9	231.5	-1312.8	19122.1
	112	-24933.3	-9395.0	-624.9	-231.5	-1030.5	16109.1
73	12	26767.3	9151.6	-1075.6	212.9	1949.4	18629.1
	112	-25079.8	-9151.6	1075.6	-212.9	2084.3	15458.6
1	13	27882.8	964.2	641.0	1.4	-103.3	1320.4

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	113	-25689.1	-964.2	-641.0	-1.4	-2300.6	2295.5
2	13	24104.8	713.2	898.4	2.6	-527.1	993.1
	113	-21911.1	-713.2	-898.4	-2.6	-2841.8	1681.5
3	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
4	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
5	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
6	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
7	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
8	13	23471.1	687.4	869.3	2.5	-500.6	955.4
	113	-21277.4	-687.4	-869.3	-2.5	-2759.3	1622.4
9	13	17677.8	-3735.5	2760.2	-90.4	-4654.8	-7904.9
	113	-15990.3	3735.5	-2760.2	90.4	-5696.0	-6103.0
10	13	17841.8	1467.2	2710.7	-56.2	-4556.5	2685.4
	113	-16154.3	-1467.2	-2710.7	56.2	-5608.7	2816.5
11	13	17698.3	81.3	2685.6	119.2	-4504.5	-154.4
	113	-16010.8	-81.3	-2685.6	-119.2	-5566.5	459.5
12	13	17862.3	5284.0	2636.1	153.3	-4406.2	10435.9
	113	-16174.8	-5284.0	-2636.1	-153.3	-5479.3	9379.0
13	13	16162.9	-10629.5	1343.4	-200.3	-1849.7	-21924.8
	113	-14475.4	10629.5	-1343.4	200.3	-3188.1	-17936.0
14	13	15059.3	-10812.5	66.6	-218.1	677.9	-22290.6
	113	-13371.8	10812.5	-66.6	218.1	-927.9	-18256.2
15	13	16255.5	-5591.0	1238.8	107.7	-1641.3	-11699.1
	113	-14568.0	5591.0	-1238.8	-107.7	-3004.0	-9267.2
16	13	15151.9	-5774.0	-38.0	89.9	886.3	-12064.9
	113	-13464.4	5774.0	38.0	-89.9	-743.8	-9587.5
17	13	13999.1	-4345.3	-1495.7	-149.9	3770.6	-9124.5
	113	-12311.6	4345.3	1495.7	149.9	1838.2	-7170.6
18	13	14163.1	857.3	-1545.2	-115.7	3868.9	1465.9
	113	-12475.6	-857.3	1545.2	115.7	1925.4	1748.9
19	13	14019.7	-528.6	-1570.3	59.7	3920.9	-1373.9
	113	-12332.2	528.6	1570.3	-59.7	1967.6	-608.1
20	13	14183.7	4674.1	-1619.7	93.9	4019.2	9216.4
	113	-12496.2	-4674.1	1619.7	-93.9	2054.8	8311.4
21	13	16709.5	6712.6	1178.5	-86.4	-1521.9	13376.4
	113	-15022.0	-6712.6	-1178.5	86.4	-2897.4	11795.9
22	13	15605.9	6529.7	-98.3	-104.2	1005.8	13010.6
	113	-13918.4	-6529.7	98.3	104.2	-637.1	11475.6
23	13	16802.2	11751.1	1073.8	221.6	-1313.5	23602.1
	113	-15114.7	-11751.1	-1073.8	-221.6	-2713.3	20464.6
24	13	15698.6	11568.2	-202.9	203.8	1214.1	23236.3
	113	-14011.1	-11568.2	202.9	-203.8	-453.0	20144.4
25	13	19294.3	671.1	437.5	1.1	-70.7	924.2
	113	-17606.8	-671.1	-437.5	-1.1	-1569.8	1592.4
26	13	16775.7	503.8	609.0	1.9	-353.2	706.0
	113	-15088.2	-503.8	-609.0	-1.9	-1930.6	1183.0
27	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
28	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
29	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
30	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
31	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
32	13	16353.2	486.5	589.6	1.8	-335.5	680.9
	113	-14665.7	-486.5	-589.6	-1.8	-1875.6	1143.6
33	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
34	13	16099.7	476.2	578.0	1.8	-324.9	665.8
	113	-14412.2	-476.2	-578.0	-1.8	-1842.6	1120.0
35	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
36	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
37	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
38	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
39	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
40	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
41	13	15930.7	469.3	570.2	1.7	-317.8	655.7
	113	-14243.2	-469.3	-570.2	-1.7	-1820.6	1104.2
42	13	17504.4	-3315.3	2542.8	-80.5	-4224.3	-7049.6
	113	-15816.9	3315.3	-2542.8	80.5	-5311.3	-5382.8
43	13	17652.1	1368.4	2498.4	-50.1	-4135.9	2484.4
	113	-15964.6	-1368.4	-2498.4	50.1	-5232.9	2647.1
44	13	17522.8	106.2	2475.4	106.7	-4088.5	-101.8
	113	-15835.3	-106.2	-2475.4	-106.7	-5194.3	500.1
45	13	17670.5	4789.9	2430.9	137.1	-4000.1	9432.3
	113	-15983.0	-4789.9	-2430.9	-137.1	-5115.9	8530.0
46	13	16139.9	-9525.5	1266.5	-178.6	-1697.3	-19678.8
	113	-14452.4	9525.5	-1266.5	178.6	-3052.1	-16041.9
47	13	15145.8	-9686.3	116.5	-194.5	579.3	-20000.1
	113	-13458.3	9686.3	-116.5	194.5	-1016.3	-16323.6
48	13	16223.3	-4987.5	1172.2	96.5	-1509.5	-10468.7
	113	-14535.8	4987.5	-1172.2	-96.5	-2886.1	-8234.3
49	13	15229.3	-5148.2	22.2	80.6	767.2	-10790.0
	113	-13541.8	5148.2	-22.2	-80.6	-850.3	-8515.9
50	13	14191.0	-3851.3	-1290.5	-133.7	3364.5	-8120.8
	113	-12503.5	3851.3	1290.5	133.7	1474.8	-6321.6
51	13	14338.7	832.4	-1334.9	-103.2	3452.9	1413.3
	113	-12651.2	-832.4	1334.9	103.2	1553.2	1708.3
52	13	14209.4	-429.8	-1357.9	53.6	3500.3	-1172.9
	113	-12521.9	429.8	1357.9	-53.6	1591.8	-438.7
53	13	14357.1	4254.0	-1402.4	84.0	3588.7	8361.1
	113	-12669.6	-4254.0	1402.4	-84.0	1670.1	7591.2
54	13	16632.2	6086.9	1118.3	-77.1	-1402.8	12101.5
	113	-14944.7	-6086.9	-1118.3	77.1	-2790.8	10724.3
55	13	15638.2	5926.1	-31.7	-93.0	873.9	11780.2
	113	-13950.7	-5926.1	31.7	93.0	-755.0	10442.7
56	13	16715.6	10624.9	1024.0	198.0	-1214.9	21311.6
	113	-15028.1	-10624.9	-1024.0	-198.0	-2624.8	18532.0
57	13	15721.6	10464.2	-126.0	182.1	1061.7	20990.2
	113	-14034.1	-10464.2	126.0	-182.1	-589.0	18250.3
58	13	17770.1	-3954.5	2875.9	-94.6	-4884.0	-8351.1
	113	-16082.6	3954.5	-2875.9	94.6	-5900.7	-6478.4
59	13	17942.8	1520.2	2823.9	-58.8	-4780.7	2793.2
	113	-16255.3	-1520.2	-2823.9	58.8	-5809.1	2907.6
60	13	17791.6	45.9	2797.1	124.4	-4725.2	-227.7
	113	-16104.2	-45.9	-2797.1	-124.4	-5764.0	399.8
61	13	17964.3	5520.6	2745.1	160.1	-4621.9	10916.6
	113	-16276.8	-5520.6	-2745.1	-160.1	-5672.4	9785.8
62	13	16175.2	-11213.7	1384.1	-209.4	-1930.3	-23113.3
	113	-14487.7	11213.7	-1384.1	209.4	-3260.1	-18938.0
63	13	15013.3	-11401.9	39.9	-228.1	730.7	-23489.6
	113	-13325.8	11401.9	-39.9	228.1	-880.5	-19267.7
64	13	16272.7	-5908.6	1273.8	112.5	-1710.7	-12346.6
	113	-14585.2	5908.6	-1273.8	-112.5	-3066.1	-9810.7
65	13	15110.8	-6096.8	-70.4	93.9	950.4	-12722.8
	113	-13423.3	6096.8	70.4	-93.9	-686.5	-10140.4
66	13	13897.2	-4582.0	-1604.7	-156.7	3986.3	-9605.1
	113	-12209.7	4582.0	1604.7	156.7	2031.2	-7577.4
67	13	14069.8	892.8	-1656.7	-121.0	4089.6	1539.2
	113	-12382.3	-892.8	1656.7	121.0	2122.9	1808.6
68	13	13918.7	-581.6	-1683.5	62.3	4145.1	-1481.7
	113	-12231.2	581.6	1683.5	-62.3	2168.0	-699.2
69	13	14091.3	4893.2	-1735.5	98.0	4248.4	9662.6
	113	-12403.8	-4893.2	1735.5	-98.0	2259.6	8686.9
70	13	16750.6	7035.5	1210.8	-90.4	-1586.0	14034.3
	113	-15063.1	-7035.5	-1210.8	90.4	-2954.6	12348.8
71	13	15588.8	6847.3	-133.4	-109.0	1075.1	13658.1
	113	-13901.3	-6847.3	133.4	109.0	-575.0	12019.1
72	13	16848.2	12340.6	1100.6	231.5	-1366.3	24801.0
	113	-15160.7	-12340.6	-1100.6	-231.5	-2760.6	21476.1
73	13	15686.3	12152.3	-243.6	212.9	1294.8	24424.8
	113	-13998.8	-12152.3	243.6	-212.9	-381.0	21146.4

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
1	114	16768.0	-2053.7	-766.4	1.4	2518.1	-2056.0
	14	-18961.7	2053.7	766.4	-1.4	355.8	-5645.4
2	114	13260.1	-1542.3	-791.3	2.6	2471.4	-1397.7
	14	-15453.8	1542.3	791.3	-2.6	496.0	-4385.8
3	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
4	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
5	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
6	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
7	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
8	114	12817.9	-1496.2	-764.4	2.5	2393.3	-1342.7
	14	-15011.7	1496.2	764.4	-2.5	473.1	-4267.9
9	114	7284.5	403.0	1993.8	-90.4	-2963.6	1391.4
	14	-8972.0	-403.0	-1993.8	90.4	-4513.7	135.2
10	114	5735.7	-2652.9	1672.9	-56.2	-2396.4	-3437.1
	14	-7423.2	2652.9	-1672.9	56.2	-3877.0	-6495.7
11	114	8153.0	2729.7	2362.8	119.2	-3594.2	4938.9
	14	-9840.5	-2729.7	-2362.8	-119.2	-5266.3	5298.2
12	114	6604.2	-326.1	2041.9	153.3	-3027.0	110.5
	14	-8291.7	326.1	-2041.9	-153.3	-4629.6	-1332.7
13	114	9996.3	2682.6	703.8	-200.3	-627.9	4973.6
	14	-11683.8	-2682.6	-703.8	200.3	-2012.9	5090.8
14	114	10931.2	2066.6	-805.2	-218.1	2112.1	4017.2
	14	-12618.7	-2066.6	805.2	218.1	905.7	3732.3
15	114	11236.6	6142.8	880.7	107.7	-860.0	10391.3
	14	-12924.1	-6142.8	-880.7	-107.7	-2442.8	12644.6
16	114	12171.5	5526.8	-628.3	89.9	1880.1	9434.8
	14	-13859.0	-5526.8	628.3	-89.9	475.8	11286.1
17	114	10400.9	-1650.5	-3036.1	-149.9	6169.9	-1796.8
	14	-12088.4	1650.5	3036.1	149.9	5215.0	-4393.2
18	114	8852.1	-4706.3	-3357.0	-115.7	6737.1	-6625.2
	14	-10539.6	4706.3	3357.0	115.7	5851.8	-11024.1
19	114	11269.5	676.3	-2667.1	59.7	5539.3	1750.8
	14	-12957.0	-676.3	2667.1	-59.7	4462.4	769.8
20	114	9720.7	-2379.5	-2988.0	93.9	6106.5	-3077.7
	14	-11408.2	2379.5	2988.0	-93.9	5099.2	-5861.1
21	114	4833.6	-7503.4	-365.9	-86.4	1262.8	-11121.1
	14	-6521.1	7503.4	365.9	86.4	109.7	-17012.0
22	114	5768.6	-8119.4	-1874.9	-104.2	4002.8	-12077.6
	14	-7456.1	8119.4	1874.9	104.2	3028.3	-18370.5
23	114	6073.9	-4043.2	-189.0	221.6	1030.7	-5703.5
	14	-7761.4	4043.2	189.0	-221.6	-320.3	-9458.2
24	114	7008.8	-4659.2	-1698.0	203.8	3770.8	-6659.9
	14	-8696.3	4659.2	1698.0	-203.8	2598.3	-10816.8
25	114	11430.7	-1390.7	-516.4	1.1	1706.7	-1355.3
	14	-13118.2	1390.7	516.4	-1.1	229.7	-3859.9
26	114	9092.1	-1049.8	-533.0	1.9	1675.5	-916.5
	14	-10779.6	1049.8	533.0	-1.9	323.2	-3020.2
27	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
28	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
29	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
30	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
31	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
32	114	8797.3	-1019.0	-515.0	1.8	1623.5	-879.8
	14	-10484.8	1019.0	515.0	-1.8	308.0	-2941.6
33	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
34	114	8620.5	-1000.6	-504.3	1.8	1592.2	-857.8
	14	-10308.0	1000.6	504.3	-1.8	298.8	-2894.4
35	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
36	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
37	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
38	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
39	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
40	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
41	114	8502.6	-988.3	-497.1	1.7	1571.4	-843.2
	14	-10190.1	988.3	497.1	-1.7	292.7	-2863.0
42	114	7401.9	246.2	1743.6	-80.5	-2019.1	1141.4
	14	-9089.4	-246.2	-1743.6	80.5	-4030.5	-203.9
43	114	6009.9	-2495.1	1457.3	-50.1	-2002.2	-3190.2
	14	-7697.4	2495.1	-1457.3	50.1	-3462.6	-6152.4
44	114	8191.3	2353.4	2079.3	106.7	-3082.1	4353.0
	14	-9878.8	-2353.4	-2079.3	-106.7	-4715.2	4473.1
45	114	6799.2	-387.9	1793.0	137.1	-3065.2	21.4
	14	-8486.7	387.9	-1793.0	-137.1	-4147.3	-1475.4
46	114	9837.5	2278.1	575.7	-178.6	1236.4	4333.5
	14	-11525.0	-2278.1	-575.7	178.6	-1765.7	4213.8
47	114	10678.7	1727.7	-783.5	-194.5	3704.6	3478.8
	14	-12366.2	-1727.7	783.5	194.5	863.3	2999.8
48	114	10966.6	5433.6	743.7	96.5	-618.0	9273.7
	14	-12654.1	-5433.6	-743.7	-96.5	-2170.8	11102.5
49	114	11807.8	4883.1	-615.6	80.6	1850.1	8419.0
	14	-13495.3	-4883.1	615.6	-80.6	458.1	9888.5
50	114	10205.9	-1588.7	-2787.2	-133.7	6208.0	-1707.7
	14	-11893.4	1588.7	2787.2	133.7	4732.7	-4250.5
51	114	8813.9	-4330.0	-3073.5	-103.2	6224.9	-6039.3
	14	-10501.4	4330.0	3073.5	103.2	5300.7	-10199.0
52	114	10995.3	518.5	-2451.5	53.6	5145.1	1503.9
	14	-12682.8	-518.5	2451.5	-53.6	4048.1	426.4
53	114	9603.2	-2222.8	-2737.8	84.0	5161.9	-2827.7
	14	-11290.7	2222.8	2737.8	-84.0	4616.0	-5522.0
54	114	5197.3	-6859.7	-378.6	-77.1	1292.8	-10105.3
	14	-6884.8	6859.7	378.6	77.1	127.3	-15614.4
55	114	6038.5	-7410.2	-1737.9	-93.0	3760.9	-10960.0
	14	-7726.0	7410.2	1737.9	93.0	2756.3	-16828.4
56	114	6326.5	-3704.3	-210.7	198.0	-561.7	-5165.1
	14	-8014.0	3704.3	210.7	-198.0	-277.8	-8725.7
57	114	7167.7	-4254.7	-1569.9	182.1	1906.4	-6019.8
	14	-8855.2	4254.7	1569.9	-182.1	2351.1	-9939.7
58	114	7216.8	457.4	2122.6	-94.6	-3198.4	1480.8
	14	-8904.3	-457.4	-2122.6	94.6	-4761.8	251.0
59	114	5589.0	-2749.6	1787.3	-58.8	-2605.7	-3586.6
	14	-7276.5	2749.6	-1787.3	58.8	-4096.8	-6707.8
60	114	8138.5	2918.2	2514.3	124.4	-3867.8	5231.2
	14	-9826.0	-2918.2	-2514.3	-124.4	-5560.8	5712.8
61	114	6510.6	-288.8	2179.0	160.1	-3275.0	163.9
	14	-8198.1	288.8	-2179.0	-160.1	-4895.7	-1246.0
62	114	10065.4	2838.7	758.9	-209.4	-730.2	5221.9
	14	-11752.9	-2838.7	-758.9	209.4	-2117.6	5428.4
63	114	11048.7	2195.2	-829.8	-228.1	2154.7	4222.6
	14	-12736.2	-2195.2	829.8	228.1	955.3	4009.1
64	114	11382.6	6518.1	953.2	112.5	-987.8	10982.3
	14	-13070.1	-6518.1	-953.2	-112.5	-2586.8	13461.0
65	114	12366.0	5874.6	-635.6	93.9	1897.1	9983.0
	14	-14053.5	-5874.6	635.6	-93.9	486.1	12041.7
66	114	10494.5	-1687.8	-3173.2	-156.7	6417.9	-1850.2
	14	-12182.0	1687.8	3173.2	156.7	5481.2	-4479.9
67	114	8866.7	-4894.8	-3508.5	-121.0	7010.7	-6917.5
	14	-10554.2	4894.8	3508.5	121.0	6146.3	-11438.7
68	114	11416.2	773.0	-2781.5	62.3	5748.5	1900.3
	14	-13103.7	-773.0	2781.5	-62.3	4682.2	981.9
69	114	9788.3	-2434.0	-3116.8	98.0	6341.3	-3167.1
	14	-11475.8	2434.0	3116.8	-98.0	5347.3	-5976.9
70	114	4639.2	-7851.2	-358.6	-90.4	1245.7	-11669.3
	14	-6326.7	7851.2	358.6	90.4	99.4	-17767.6
71	114	5622.5	-8494.7	-1947.4	-109.0	4130.6	-12668.6
	14	-7310.0	8494.7	1947.4	109.0	3172.3	-19186.9
72	114	5956.5	-4171.8	-164.4	231.5	988.2	-5908.9
	14	-7644.0	4171.8	164.4	-231.5	-369.9	-9735.0
73	114	6939.8	-4815.3	-1753.1	212.9	3873.1	-6908.2
	14	-8627.3	4815.3	1753.1	-212.9	2703.0	-11154.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
1	15	33732.6	1466.9	907.0	1.4	-767.7	2860.7
	115	-31538.9	-1466.9	-907.0	-1.4	-2633.7	2640.3
2	15	29168.2	975.7	798.0	2.6	-655.4	2053.7
	115	-26974.4	-975.7	-798.0	-2.6	-2336.9	1605.3
3	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
4	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
5	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
6	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
7	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
8	15	28334.3	941.6	780.9	2.5	-648.7	1993.6
	115	-26140.5	-941.6	-780.9	-2.5	-2279.7	1537.5
9	15	18687.7	-82.7	7706.8	-90.4	-15222.4	-24.1
	115	-17000.2	82.7	-7706.8	90.4	-13678.0	-286.2
10	15	17250.5	1351.8	7943.3	-56.2	-15743.9	2752.8
	115	-15563.0	-1351.8	-7943.3	56.2	-14043.2	2316.2
11	15	19132.2	-632.1	9437.4	119.2	-18734.6	-1098.4
	115	-17444.7	632.1	-9437.4	-119.2	-16655.9	-1272.0
12	15	17695.0	802.4	9673.9	153.3	-19256.0	1678.5
	115	-16007.5	-802.4	-9673.9	-153.3	-17021.1	1330.5
13	15	20852.8	-1446.5	1060.1	-200.3	-1525.2	-2664.9
	115	-19165.3	1446.5	-1060.1	200.3	-2449.7	-2759.6
14	15	21359.7	-1298.5	-3839.7	-218.1	8553.8	-2376.9
	115	-19672.2	1298.5	3839.7	218.1	5845.9	-2492.4
15	15	21503.0	-2269.9	4099.4	107.7	-7697.6	-4264.9
	115	-19815.5	2269.9	-4099.4	-107.7	-7675.6	-4247.3
16	15	22009.8	-2121.9	-800.5	89.9	2381.3	-3976.9
	115	-20322.3	2121.9	800.5	-89.9	620.0	-3980.1
17	15	20377.1	410.8	-8626.1	-149.9	18374.0	936.1
	115	-18689.6	-410.8	8626.1	149.9	13974.0	604.6
18	15	18940.0	1845.3	-8389.7	-115.7	17852.6	3713.0
	115	-17252.5	-1845.3	8389.7	115.7	13608.8	3207.1
19	15	20821.7	-138.6	-6895.5	59.7	14861.9	-138.2
	115	-19134.2	138.6	6895.5	-59.7	10996.2	-381.1
20	15	19384.5	1295.9	-6659.1	93.9	14340.4	2638.7
	115	-17697.0	-1295.9	6659.1	-93.9	10630.9	2221.4
21	15	16062.3	3335.1	1848.3	-86.4	-3263.3	6591.5
	115	-14374.8	-3335.1	-1848.3	86.4	-3667.1	5915.2
22	15	16569.2	3483.2	-3051.6	-104.2	6815.6	6879.5
	115	-14881.7	-3483.2	3051.6	104.2	4628.5	6182.5
23	15	16712.5	2511.7	4887.5	221.6	-9435.8	4991.5
	115	-15025.0	-2511.7	-4887.5	-221.6	-8893.0	4427.5
24	15	17219.3	2659.8	-12.4	203.8	643.1	5279.5
	115	-15531.8	-2659.8	12.4	-203.8	-597.4	4694.7
25	15	23190.9	979.6	619.3	1.1	-524.8	1925.4
	115	-21503.4	-979.6	-619.3	-1.1	-1797.7	1747.9
26	15	20147.9	652.1	546.6	1.9	-449.9	1387.4
	115	-18460.4	-652.1	-546.6	-1.9	-1599.9	1057.9
27	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
28	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
29	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
30	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
31	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
32	15	19592.0	629.4	535.2	1.8	-445.5	1347.4
	115	-17904.5	-629.4	-535.2	-1.8	-1561.7	1012.8
33	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
34	15	19258.4	615.7	528.4	1.8	-442.8	1323.3
	115	-17570.9	-615.7	-528.4	-1.8	-1538.8	985.6
35	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
36	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
37	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
38	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
39	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
40	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
41	15	19036.1	606.6	523.9	1.7	-441.0	1307.3
	115	-17348.6	-606.6	-523.9	-1.7	-1523.5	967.6
42	15	18720.8	-11.2	6997.5	-80.5	-13762.3	114.0
	115	-17033.3	11.2	-6997.5	80.5	-12478.0	-156.4
43	15	17427.5	1279.3	7206.7	-50.1	-14224.8	2612.3
	115	-15740.0	-1279.3	-7206.7	50.1	-12800.3	2184.9
44	15	19124.4	-507.6	8553.2	106.7	-16919.8	-856.8
	115	-17436.9	507.6	-8553.2	-106.7	-15154.9	-1046.9
45	15	17831.1	782.9	8762.5	137.1	-17382.3	1641.5
	115	-16143.6	-782.9	-8762.5	-137.1	-15477.1	1294.4
46	15	20668.2	-1236.8	1021.5	-178.6	-1446.4	-2259.2
	115	-18980.7	1236.8	-1021.5	178.6	-2383.8	-2379.0
47	15	21124.3	-1104.4	-3392.1	-194.5	7632.4	-2001.4
	115	-19436.8	1104.4	3392.1	194.5	5088.6	-2139.9
48	15	21258.9	-1984.2	3742.3	96.5	-6972.7	-3711.5
	115	-19571.4	1984.2	-3742.3	-96.5	-7061.5	-3729.4
49	15	21714.9	-1851.7	-671.3	80.6	2106.1	-3453.7
	115	-20027.4	1851.7	671.3	-80.6	410.9	-3490.2
50	15	20241.1	430.4	-7714.7	-133.7	16500.3	973.1
	115	-18553.6	-430.4	7714.7	133.7	12430.0	640.7
51	15	18947.8	1720.9	-7505.4	-103.2	16037.8	3471.4
	115	-17260.3	-1720.9	7505.4	103.2	12107.8	2982.1
52	15	20644.7	-66.1	-6159.0	53.6	13342.8	2.3
	115	-18957.2	66.1	6159.0	-53.6	9753.2	-249.8
53	15	19351.4	1224.5	-5949.7	84.0	12880.2	2500.6
	115	-17663.9	-1224.5	5949.7	-84.0	9430.9	2091.5
54	15	16357.2	3065.0	1719.1	-77.1	-2988.1	6068.3
	115	-14669.7	-3065.0	-1719.1	77.1	-3457.9	5425.3
55	15	16813.3	3197.5	-2694.6	-93.0	6090.7	6326.1
	115	-15125.8	-3197.5	2694.6	93.0	4014.5	5664.5
56	15	16947.9	2317.6	4439.9	198.0	-8514.4	4616.1
	115	-15260.4	-2317.6	-4439.9	-198.0	-8135.7	4075.0
57	15	17403.9	2450.1	26.2	182.1	564.3	4873.8
	115	-15716.4	-2450.1	-26.2	-182.1	-663.3	4314.1
58	15	18667.9	-115.9	8089.5	-94.6	-16009.7	-88.2
	115	-16980.4	115.9	-8089.5	94.6	-14325.9	-346.9
59	15	17155.9	1392.9	8335.2	-58.8	-16552.4	2832.7
	115	-15468.4	-1392.9	-8335.2	58.8	-14704.5	2390.5
60	15	19139.2	-695.9	9909.0	124.4	-19702.3	-1222.4
	115	-17451.7	695.9	-9909.0	-124.4	-17456.6	-1387.3
61	15	17627.2	813.0	10154.6	160.1	-20245.0	1698.5
	115	-15939.7	-813.0	-10154.6	-160.1	-17835.1	1350.1
62	15	20944.8	-1549.4	1102.0	-209.4	-1609.2	-2864.0
	115	-19257.3	1549.4	-1102.0	209.4	-2522.8	-2946.5
63	15	21478.0	-1394.6	-4056.9	-228.1	9002.6	-2562.7
	115	-19790.5	1394.6	4056.9	228.1	6211.4	-2666.9
64	15	21634.2	-2421.7	4285.8	112.5	-8075.6	-4559.0
	115	-19946.7	2421.7	-4285.8	-112.5	-7996.7	-4522.5
65	15	22167.3	-2266.9	-873.1	93.9	2536.2	-4257.7
	115	-20479.8	2266.9	873.1	-93.9	737.5	-4243.0
66	15	20444.9	400.3	-9106.9	-156.7	19363.0	916.1
	115	-18757.4	-400.3	9106.9	156.7	14788.0	585.0
67	15	18933.0	1909.2	-8861.2	-121.0	18820.3	3837.0
	115	-17245.5	-1909.2	8861.2	121.0	14409.5	3322.4
68	15	20916.3	-179.7	-7287.4	62.3	15670.3	-218.0
	115	-19228.8	179.7	7287.4	-62.3	11657.4	-455.4
69	15	19404.3	1329.2	-7041.8	98.0	15127.6	2702.8
	115	-17716.8	-1329.2	7041.8	-98.0	11278.8	2282.0
70	15	15904.9	3480.1	1920.9	-90.4	-3418.2	6872.3
	115	-14217.4	-3480.1	-1920.9	90.4	-3784.6	6178.1
71	15	16438.0	3635.0	-3238.0	-109.0	7193.6	7173.6
	115	-14750.5	-3635.0	3238.0	109.0	4949.6	6457.6
72	15	16594.2	2607.8	5104.7	231.5	-9884.6	5177.3
	115	-14906.7	-2607.8	-5104.7	-231.5	-9258.5	4602.0
73	15	17127.3	2762.7	-54.3	212.9	727.2	5478.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	115	-15439.8	-2762.7	54.3	-212.9	-524.3	4881.6
1	116	29199.6	-1413.0	-491.8	1.4	1324.4	-2571.2
	16	-31393.4	1413.0	491.8	-1.4	520.0	-2727.6
2	116	24779.7	-895.5	-422.1	2.6	1134.4	-1464.0
	16	-26973.5	895.5	422.1	-2.6	448.6	-1894.1
3	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
4	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
5	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
6	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
7	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
8	116	23998.3	-863.6	-408.3	2.5	1097.4	-1399.6
	16	-26192.1	863.6	408.3	-2.5	433.8	-1838.9
9	116	16830.5	166.5	7314.6	-90.4	-12262.1	434.4
	16	-18518.0	-166.5	-7314.6	90.4	-15167.8	189.7
10	116	15590.7	-1380.7	7679.3	-56.2	-12894.1	-2370.9
	16	-17278.2	1380.7	-7679.3	56.2	-15903.2	-2806.9
11	116	16996.7	46.5	8980.8	119.2	-15124.7	215.4
	16	-18684.2	-46.5	-8980.8	-119.2	-18553.4	-41.2
12	116	15757.0	-1500.7	9345.5	153.3	-15756.7	-2589.9
	16	-17444.5	1500.7	-9345.5	-153.3	-19288.8	-3037.8
13	116	17993.7	1962.8	231.9	-200.3	-116.6	3691.2
	16	-19681.2	-1962.8	-231.9	200.3	-753.0	3669.1
14	116	17768.5	2033.6	-4925.6	-218.1	8719.5	3819.4
	16	-19456.0	-2033.6	4925.6	218.1	9751.4	3806.5
15	116	18201.0	2025.5	3178.6	107.7	-5177.9	3803.7
	16	-19888.5	-2025.5	-3178.6	-107.7	-6742.0	3792.0
16	116	17975.8	2096.3	-1978.8	89.9	3658.1	3931.9
	16	-19663.3	-2096.3	1978.8	-89.9	3762.4	3929.4
17	116	16080.0	402.5	-9876.9	-149.9	17191.5	861.8
	16	-17767.5	-402.5	9876.9	149.9	19847.0	647.6
18	116	14840.2	-1144.7	-9512.3	-115.7	16559.5	-1943.5
	16	-16527.7	1144.7	9512.3	115.7	19111.6	-2349.0
19	116	16246.2	282.5	-8210.7	59.7	14328.9	642.8
	16	-17933.7	-282.5	8210.7	-59.7	16461.4	416.7
20	116	15006.4	-1264.7	-7846.1	93.9	13696.8	-2162.5
	16	-16693.9	1264.7	7846.1	-93.9	15726.0	-2580.0
21	116	13861.1	-3194.6	1447.4	-86.4	-2223.3	-5660.0
	16	-15548.6	3194.6	-1447.4	86.4	-3204.2	-6319.6
22	116	13636.0	-3123.7	-3710.1	-104.2	6612.7	-5531.7
	16	-15323.5	3123.7	3710.1	104.2	7300.2	-6182.3
23	116	14068.4	-3131.8	4394.1	221.6	-7284.7	-5547.5
	16	-15755.9	3131.8	-4394.1	-221.6	-9193.2	-6196.7
24	116	13843.3	-3061.0	-763.4	203.8	1551.4	-5419.3
	16	-15530.8	3061.0	763.4	-203.8	1311.2	-6059.3
25	116	19907.0	-936.6	-330.7	1.1	893.5	-1688.1
	16	-21594.5	936.6	330.7	-1.1	346.5	-1824.3
26	116	16960.4	-591.6	-284.2	1.9	766.8	-949.9
	16	-18647.9	591.6	284.2	-1.9	298.9	-1268.7
27	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
28	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
29	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
30	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
31	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
32	116	16439.4	-570.4	-275.0	1.8	742.1	-907.0
	16	-18126.9	570.4	275.0	-1.8	289.0	-1231.9
33	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
34	116	16126.9	-557.6	-269.4	1.8	727.3	-881.2
	16	-17814.3	557.6	269.4	-1.8	283.1	-1209.8
35	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
36	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
37	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
38	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
39	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
40	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
41	116	15918.5	-549.1	-265.7	1.7	717.4	-864.0
	16	-17606.0	549.1	265.7	-1.7	279.1	-1195.1
42	116	16739.5	95.1	6564.9	-80.5	-10978.3	305.0
	16	-18427.0	-95.1	-6564.9	80.5	-13640.1	51.7
43	116	15623.2	-1298.1	6890.9	-50.1	-11543.5	-2221.2
	16	-17310.7	1298.1	-6890.9	50.1	-14297.5	-2646.8
44	116	16889.8	-12.6	8063.2	106.7	-13552.5	108.3
	16	-18577.3	12.6	-8063.2	-106.7	-16684.5	-155.7
45	116	15773.4	-1405.9	8389.2	137.1	-14117.7	-2417.9
	16	-17460.9	1405.9	-8389.2	-137.1	-17341.9	-2854.1
46	116	17786.4	1712.3	194.0	-178.6	-53.5	3237.0
	16	-19473.9	-1712.3	-194.0	178.6	-674.0	3184.2
47	116	17583.6	1776.1	-4451.7	-194.5	7905.8	3352.5
	16	-19271.1	-1776.1	4451.7	194.5	8788.0	3307.8
48	116	17974.4	1769.9	2833.4	96.5	-4587.0	3340.2
	16	-19661.9	-1769.9	-2833.4	-96.5	-6038.4	3296.9
49	116	17771.6	1833.7	-1812.2	80.6	3372.3	3455.7
	16	-19459.1	-1833.7	1812.2	-80.6	3423.6	3420.6
50	116	16063.5	307.7	-8920.7	-133.7	15552.5	689.8
	16	-17751.0	-307.7	8920.7	133.7	17900.1	463.9
51	116	14947.2	-1085.6	-8594.7	-103.2	14987.3	-1836.4
	16	-16634.7	1085.6	8594.7	103.2	17242.7	-2234.6
52	116	16213.8	199.9	-7422.4	53.6	12978.3	493.1
	16	-17901.3	-199.9	7422.4	-53.6	14855.7	256.5
53	116	15097.4	-1193.4	-7096.4	84.0	12413.1	-2033.1
	16	-16784.9	1193.4	7096.4	-84.0	14198.3	-2441.9
54	116	14065.3	-2931.9	1280.8	-77.1	-1937.5	-5183.8
	16	-15752.8	2931.9	-1280.8	77.1	-2865.4	-5810.8
55	116	13862.5	-2868.1	-3364.9	-93.0	6021.8	-5068.3
	16	-15550.0	2868.1	3364.9	93.0	6596.6	-5687.1
56	116	14253.3	-2874.3	3920.2	198.0	-6471.0	-5080.6
	16	-15940.8	2874.3	-3920.2	-198.0	-8229.8	-5698.0
57	116	14050.5	-2810.5	-725.5	182.1	1488.3	-4965.1
	16	-15738.0	2810.5	725.5	-182.1	1232.2	-5574.4
58	116	16878.3	204.0	7717.5	-94.6	-12951.9	502.6
	16	-18565.8	-204.0	-7717.5	94.6	-15988.8	262.4
59	116	15573.3	-1424.6	8099.4	-58.8	-13613.9	-2450.4
	16	-17260.8	1424.6	-8099.4	58.8	-16759.0	-2891.9
60	116	17053.8	78.0	9469.6	124.4	-15962.0	272.5
	16	-18741.3	-78.0	-9469.6	-124.4	-19548.9	19.9
61	116	15748.9	-1550.6	9851.5	160.1	-16624.1	-2680.4
	16	-17436.4	1550.6	-9851.5	-160.1	-20319.0	-3134.5
62	116	18102.1	2094.5	268.9	-209.4	-178.9	3930.1
	16	-19789.6	-2094.5	-268.9	209.4	-829.3	3924.2
63	116	17865.1	2169.0	-5161.3	-228.1	9124.3	4065.0
	16	-19552.6	-2169.0	5161.3	228.1	10230.5	4068.7
64	116	18321.6	2161.5	3356.8	112.5	-5482.7	4050.2
	16	-20009.1	-2161.5	-3356.8	-112.5	-7105.2	4055.4
65	116	18084.6	2236.0	-2073.4	93.9	3820.6	4185.1
	16	-19772.1	-2236.0	2073.4	-93.9	3954.6	4200.0
66	116	16088.1	452.4	-10382.9	-156.7	18058.9	952.3
	16	-17775.6	-452.4	10382.9	156.7	20877.2	744.2
67	116	14783.2	-1176.2	-10001.0	-121.0	17396.8	-2000.6
	16	-16470.7	1176.2	10001.0	121.0	20107.1	-2410.1
68	116	16263.6	326.4	-8630.9	62.3	15048.7	722.3
	16	-17951.1	-326.4	8630.9	-62.3	17317.2	501.7
69	116	14958.7	-1302.2	-8249.0	98.0	14386.6	-2230.7
	16	-16646.2	1302.2	8249.0	-98.0	16547.0	-2652.6
70	116	13752.4	-3334.2	1541.9	-90.4	-2385.8	-5913.2
	16	-15439.9	3334.2	-1541.9	90.4	-3396.4	-6590.2
71	116	13515.3	-3259.7	-3888.2	-109.0	6917.4	-5778.3
	16	-15202.8	3259.7	3888.2	109.0	7663.4	-6445.6
72	116	13971.9	-3267.2	4629.8	231.5	-7689.5	-5793.1
	16	-15659.4	3267.2	-4629.8	-231.5	-9672.3	-6459.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
73	116	13734.8	-3192.7	-800.3	212.9	1613.7	-5658.2
	16	-15422.3	3192.7	800.3	-212.9	1387.5	-6314.4
1	117	33296.7	-1534.7	-534.5	1.4	1503.7	-2777.6
	17	-35490.4	1534.7	534.5	-1.4	500.7	-2977.5
2	117	28446.2	-1044.6	-474.7	2.6	1363.9	-1743.3
	17	-30640.0	1044.6	474.7	-2.6	416.1	-2174.1
3	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
4	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
5	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
6	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
7	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
8	117	27561.5	-1010.3	-467.1	2.5	1336.7	-1675.0
	17	-29755.2	1010.3	467.1	-2.5	415.1	-2113.5
9	117	19783.9	173.7	6695.3	-90.4	-10854.7	439.0
	17	-21471.4	-173.7	-6695.3	90.4	-14252.5	212.3
10	117	18217.6	-1426.5	7515.0	-56.2	-12258.1	-2464.6
	17	-19905.1	1426.5	-7515.0	56.2	-15266.5	-2885.1
11	117	19463.0	-290.2	8080.6	119.2	-13250.0	-396.4
	17	-21150.5	290.2	-8080.6	-119.2	-17708.9	-691.7
12	117	17896.7	-1890.4	8900.3	153.3	-14653.5	-3300.1
	17	-19584.2	1890.4	-8900.3	-153.3	-18722.9	-3789.1
13	117	21339.0	2293.2	-227.1	-200.3	860.2	4283.7
	17	-23026.5	-2293.2	227.1	200.3	-8.3	4315.8
14	117	21004.7	2416.7	-5093.4	-218.1	9049.4	4506.3
	17	-22692.2	-2416.7	5093.4	218.1	10051.2	4556.4
15	117	20782.7	1612.5	1735.7	107.7	-2582.3	3053.5
	17	-22470.2	-1612.5	-1735.7	-107.7	-6115.1	2993.3
16	117	20448.4	1736.0	-3130.6	89.9	5606.9	3276.2
	17	-22135.9	-1736.0	3130.6	-89.9	3944.3	3233.9
17	117	18669.6	585.4	-9525.7	-149.9	16442.4	1181.1
	17	-20357.1	-585.4	9525.7	149.9	19279.0	1014.2
18	117	17103.2	-1014.9	-8706.0	-115.7	15038.9	-1722.5
	17	-18790.7	1014.9	8706.0	115.7	18265.0	-2083.2
19	117	18348.7	121.5	-8140.3	59.7	14047.1	345.7
	17	-20036.2	-121.5	8140.3	-59.7	15822.5	110.2
20	117	16782.4	-1478.8	-7320.6	93.9	12643.6	-2558.0
	17	-18469.9	1478.8	7320.6	-93.9	14808.5	-2987.2
21	117	16117.9	-3041.0	2505.3	-86.4	-3817.9	-5395.1
	17	-17805.4	3041.0	-2505.3	86.4	-3388.2	-6008.9
22	117	15783.6	-2917.5	-2361.0	-104.2	4371.2	-5172.5
	17	-17471.1	2917.5	2361.0	104.2	6671.2	-5768.3
23	117	15561.5	-3721.8	4468.1	221.6	-7260.4	-6625.3
	17	-17249.0	3721.8	-4468.1	-221.6	-9495.1	-7331.3
24	117	15227.2	-3598.3	-398.2	203.8	928.7	-6402.6
	17	-16914.7	3598.3	398.2	-203.8	564.3	-7090.8
25	117	22696.5	-1025.0	-362.6	1.1	1023.9	-1840.1
	17	-24384.0	1025.0	362.6	-1.1	335.8	-2003.9
26	117	19462.9	-698.3	-322.7	1.9	930.8	-1150.5
	17	-21150.4	698.3	322.7	-1.9	279.4	-1468.3
27	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
28	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
29	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
30	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
31	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
32	117	18873.0	-675.4	-317.7	1.8	912.6	-1105.0
	17	-20560.5	675.4	317.7	-1.8	278.7	-1427.9
33	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
34	117	18519.1	-661.7	-314.7	1.8	901.7	-1077.7
	17	-20206.6	661.7	314.7	-1.8	278.3	-1403.6
35	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
36	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
37	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
38	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
39	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
40	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
41	117	18283.1	-652.5	-312.7	1.7	894.5	-1059.5
	17	-19970.6	652.5	312.7	-1.7	278.0	-1387.5
42	117	19635.1	92.9	6001.8	-80.5	-9691.9	292.4
	17	-21322.6	-92.9	-6001.8	80.5	-12814.6	55.8
43	117	18224.4	-1348.4	6735.2	-50.1	-10947.6	-2322.8
	17	-19911.9	1348.4	-6735.2	50.1	-13725.5	-2733.9
44	117	19344.2	-325.2	7250.7	106.7	-11851.8	-460.6
	17	-21031.7	325.2	-7250.7	-106.7	-15922.4	-759.0
45	117	17933.4	-1766.5	7984.2	137.1	-13107.5	-3075.7
	17	-19620.9	1766.5	-7984.2	-137.1	-16833.4	-3548.7
46	117	21036.0	2001.5	-226.1	-178.6	847.7	3754.5
	17	-22723.5	-2001.5	226.1	178.6	0.3	3750.9
47	117	20735.3	2112.0	-4609.4	-194.5	8224.2	3953.8
	17	-22422.8	-2112.0	4609.4	194.5	9061.5	3966.3
48	117	20533.4	1387.2	1539.2	96.5	-2249.6	2644.4
	17	-22220.9	-1387.2	-1539.2	-96.5	-5468.9	2557.6
49	117	20232.7	1497.8	-2844.2	80.6	5126.9	2843.8
	17	-21920.2	-1497.8	2844.2	-80.6	3592.4	2773.0
50	117	18632.8	461.5	-8609.5	-133.7	14896.4	956.8
	17	-20320.3	-461.5	8609.5	133.7	17389.5	773.7
51	117	17222.1	-979.8	-7876.1	-103.2	13640.7	-1658.4
	17	-18909.6	979.8	7876.1	103.2	16478.5	-2015.9
52	117	18341.9	43.3	-7360.6	53.6	12736.5	203.8
	17	-20029.4	-43.3	7360.6	-53.6	14281.6	-41.1
53	117	16931.1	-1397.9	-6627.1	84.0	11480.9	-2411.3
	17	-18618.6	1397.9	6627.1	-84.0	13370.6	-2830.8
54	117	16333.6	-2802.8	2218.8	-77.1	-3337.9	-4962.7
	17	-18021.1	2802.8	-2218.8	77.1	-3036.3	-5547.9
55	117	16032.9	-2692.3	-2164.5	-93.0	4038.6	-4763.4
	17	-17720.4	2692.3	2164.5	93.0	6024.9	-5332.6
56	117	15830.9	-3417.1	3984.1	198.0	-6435.3	-6072.7
	17	-17518.4	3417.1	-3984.1	-198.0	-8505.4	-6741.3
57	117	15530.2	-3306.5	-399.3	182.1	941.2	-5873.4
	17	-17217.7	3306.5	399.3	-182.1	555.8	-6525.9
58	117	19863.4	218.8	7067.3	-94.6	-11478.4	520.6
	17	-21550.9	-218.8	-7067.3	94.6	-15024.0	299.5
59	117	18214.5	-1465.9	7925.3	-58.8	-12947.3	-2536.1
	17	-19902.0	1465.9	-7925.3	58.8	-16090.2	-2961.2
60	117	19523.4	-270.0	8527.8	124.4	-14004.0	-359.6
	17	-21210.9	270.0	-8527.8	-124.4	-18657.9	-653.1
61	117	17874.5	-1954.7	9385.9	160.1	-15472.9	-3416.3
	17	-19562.0	1954.7	-9385.9	-160.1	-19724.2	-3913.8
62	117	21500.8	2449.6	-213.8	-209.4	843.7	4567.3
	17	-23188.3	-2449.6	213.8	209.4	-41.8	4618.5
63	117	21149.3	2578.8	-5337.3	-228.1	9465.8	4800.3
	17	-22836.8	-2578.8	5337.3	228.1	10549.5	4870.3
64	117	20913.4	1731.6	1851.9	112.5	-2780.5	3269.9
	17	-22600.9	-1731.6	-1851.9	-112.5	-6439.2	3223.7
65	117	20561.9	1860.9	-3271.7	93.9	5841.6	3502.9
	17	-22249.4	-1860.9	3271.7	-93.9	4152.0	3475.5
66	117	18691.8	649.6	-10011.2	-156.7	17261.8	1297.4
	17	-20379.3	-649.6	10011.2	156.7	20280.3	1138.8
67	117	17042.8	-1035.0	-9153.2	-121.0	15792.9	-1759.4
	17	-18730.3	1035.0	9153.2	121.0	19214.0	-2121.9
68	117	18351.8	160.8	-8550.7	62.3	14736.2	417.2
	17	-20039.3	-160.8	8550.7	-62.3	16646.3	186.3
69	117	16702.9	-1523.8	-7692.7	98.0	13267.3	-2639.6
	17	-18390.4	1523.8	7692.7	-98.0	15580.0	-3074.4
70	117	16004.4	-3165.9	2646.3	-90.4	-4052.6	-5621.8
	17	-17691.9	3165.9	-2646.3	90.4	-3595.9	-6250.5
71	117	15652.9	-3036.7	-2477.2	-109.0	4569.4	-5388.8
	17	-17340.4	3036.7	2477.2	109.0	6995.3	-5998.7
72	117	15416.9	-3883.9	4712.0	231.5	-7676.8	-6919.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	17	-17104.4	3883.9	-4712.0	-231.5	-9993.4	-7645.3
73	117	15065.4	-3754.6	-411.6	212.9	945.2	-6686.2
	17	-16752.9	3754.6	411.6	-212.9	597.9	-7393.5
1	18	18888.1	1985.1	777.1	1.4	-379.2	5631.0
	118	-16694.3	-1985.1	-777.1	-1.4	-2534.9	1813.2
2	18	15391.1	1556.5	802.2	2.6	-518.8	4489.4
	118	-13197.4	-1556.5	-802.2	-2.6	-2489.5	1347.6
3	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
4	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
5	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
6	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
7	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
8	18	14951.8	1512.0	774.9	2.5	-495.1	4370.8
	118	-12758.1	-1512.0	-774.9	-2.5	-2410.9	1299.2
9	18	13003.7	-1041.4	2533.4	-90.4	-4197.8	-1503.3
	118	-11316.2	1041.4	-2533.4	90.4	-5302.3	-2379.8
10	18	11209.8	2700.8	2882.0	-56.2	-4904.5	6595.5
	118	-9522.3	-2700.8	-2882.0	56.2	-5904.9	3554.9
11	18	12260.3	1125.8	3108.4	119.2	-5334.0	3300.6
	118	-10572.8	-1125.8	-3108.4	-119.2	-6320.9	922.7
12	18	10466.3	4868.1	3457.1	153.3	-6040.7	11399.4
	118	-8778.8	-4868.1	-3457.1	-153.3	-6923.5	6857.4
13	18	14189.6	-6678.4	213.7	-200.3	332.8	-13695.5
	118	-12502.1	6678.4	-213.7	200.3	-1134.0	-11342.0
14	18	13239.1	-7224.4	-1280.1	-218.1	3218.3	-14901.1
	118	-11551.6	7224.4	1280.1	218.1	1582.4	-12190.8
15	18	13042.4	-3243.0	1128.9	107.7	-1482.5	-6217.6
	118	-11354.9	3243.0	-1128.9	-107.7	-2745.0	-5943.3
16	18	12091.9	-3789.0	-364.9	89.9	1403.0	-7423.3
	118	-10404.4	3789.0	364.9	-89.9	-28.7	-6792.2
17	18	9835.3	-2861.3	-2446.1	-149.9	5420.7	-5522.1
	118	-8147.8	2861.3	2446.1	149.9	3752.2	-5209.3
18	18	8041.3	880.9	-2097.4	-115.7	4714.0	2576.7
	118	-6353.8	-880.9	2097.4	115.7	3149.5	725.4
19	18	9091.9	-694.1	-1871.0	59.7	4284.5	-718.2
	118	-7404.4	694.1	1871.0	-59.7	2733.5	-1906.8
20	18	7297.9	3048.2	-1522.3	93.9	3577.8	7380.6
	118	-5610.4	-3048.2	1522.3	-93.9	2130.9	4027.9
21	18	8209.7	5795.8	1376.0	-86.4	-2023.0	13300.6
	118	-6522.2	-5795.8	-1376.0	86.4	-3142.7	8440.3
22	18	7259.2	5249.8	-117.9	-104.2	862.5	12094.9
	118	-5571.7	-5249.8	117.9	104.2	-426.4	7591.4
23	18	7062.5	9231.2	2291.1	221.6	-3838.3	20778.4
	118	-5375.0	-9231.2	-2291.1	-221.6	-4753.7	13838.9
24	18	6112.0	8685.2	797.3	203.8	-952.7	19572.7
	118	-4424.5	-8685.2	-797.3	-203.8	-2037.4	12990.1
25	18	13067.8	1348.5	525.1	1.1	-248.5	3857.9
	118	-11380.3	-1348.5	-525.1	-1.1	-1720.8	1199.0
26	18	10736.5	1062.7	541.9	1.9	-341.6	3096.8
	118	-9049.0	-1062.7	-541.9	-1.9	-1690.5	888.5
27	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
28	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
29	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
30	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
31	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
32	18	10443.7	1033.1	523.7	1.8	-325.8	3017.7
	118	-8756.2	-1033.1	-523.7	-1.8	-1638.1	856.3
33	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
34	18	10268.0	1015.3	512.8	1.8	-316.3	2970.3
	118	-8580.5	-1015.3	-512.8	-1.8	-1606.7	836.9
35	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6

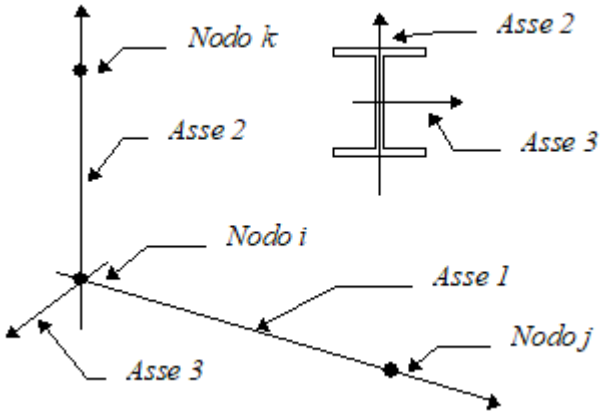
Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
36	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
37	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
38	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
39	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
40	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
41	18	10150.8	1003.4	505.5	1.7	-310.0	2938.6
	118	-8463.3	-1003.4	-505.5	-1.7	-1585.7	824.0
42	18	12720.9	-844.3	2332.5	-80.5	-3812.7	-1075.9
	118	-11033.4	844.3	-2332.5	80.5	-4934.2	-2069.9
43	18	11105.4	2524.7	2644.8	-50.1	-4445.8	6215.2
	118	-9417.9	-2524.7	-2644.8	50.1	-5473.6	3272.9
44	18	12047.8	1108.3	2851.6	106.7	-4838.1	3253.7
	118	-10360.3	-1108.3	-2851.6	-106.7	-5853.6	903.8
45	18	10432.3	4477.4	3163.8	137.1	-5471.3	10544.8
	118	-8744.8	-4477.4	-3163.8	-137.1	-6393.1	6246.6
46	18	13789.0	-5916.7	245.2	-178.6	264.3	-12046.2
	118	-12101.5	5916.7	-245.2	178.6	-1183.5	-10135.2
47	18	12933.5	-6404.6	-1100.4	-194.5	2863.5	-13123.7
	118	-11246.0	6404.6	1100.4	194.5	1263.3	-10893.8
48	18	12753.1	-2818.8	1070.6	96.5	-1372.9	-5302.7
	118	-11065.6	2818.8	-1070.6	-96.5	-2636.6	-5267.5
49	18	11897.6	-3306.7	-275.0	80.6	1226.3	-6380.2
	118	-10210.1	3306.7	275.0	-80.6	-189.9	-6026.1
50	18	9869.3	-2470.6	-2152.8	-133.7	4851.3	-4667.5
	118	-8181.8	2470.6	2152.8	133.7	3221.7	-4598.5
51	18	8253.8	898.4	-1840.5	-103.2	4218.1	2623.6
	118	-6566.3	-898.4	1840.5	103.2	2682.2	744.3
52	18	9196.2	-518.0	-1633.7	53.6	3825.9	-337.9
	118	-7508.7	518.0	1633.7	-53.6	2302.3	-1624.8
53	18	7580.7	2851.1	-1321.5	84.0	3192.7	6953.2
	118	-5893.2	-2851.1	1321.5	-84.0	1762.8	3718.0
54	18	8404.0	5313.5	1286.0	-77.1	-1846.3	12257.5
	118	-6716.5	-5313.5	-1286.0	77.1	-2981.5	7674.2
55	18	7548.5	4825.6	-59.6	-93.0	752.9	11180.0
	118	-5861.0	-4825.6	59.6	93.0	-534.8	6915.6
56	18	7368.1	8411.3	2111.4	198.0	-3483.4	19000.9
	118	-5680.6	-8411.3	-2111.4	-198.0	-4434.7	12541.9
57	18	6512.6	7923.4	765.8	182.1	-884.2	17923.5
	118	-4825.1	-7923.4	-765.8	-182.1	-1987.9	11783.3
58	18	13154.9	-1156.4	2640.9	-94.6	-4403.8	-1754.0
	118	-11467.4	1156.4	-2640.9	94.6	-5499.3	-2558.7
59	18	11266.6	2781.6	3006.0	-58.8	-5144.2	6768.4
	118	-9579.1	-2781.6	-3006.0	58.8	-6130.2	3686.5
60	18	12368.3	1126.5	3247.7	124.4	-5602.7	3307.8
	118	-10680.8	-1126.5	-3247.7	-124.4	-6574.3	917.9
61	18	10480.0	5064.5	3612.8	160.1	-6343.1	11830.2
	118	-8792.5	-5064.5	-3612.8	-160.1	-7205.1	7163.1
62	18	14403.3	-7085.5	200.6	-209.4	362.4	-14577.2
	118	-12715.8	7085.5	-200.6	209.4	-1114.4	-11986.3
63	18	13403.3	-7655.9	-1372.2	-228.1	3400.5	-15836.9
	118	-11715.8	7655.9	1372.2	228.1	1745.5	-12873.2
64	18	13192.6	-3464.1	1166.0	112.5	-1552.3	-6694.1
	118	-11505.1	3464.1	-1166.0	-112.5	-2814.1	-6295.9
65	18	12192.6	-4034.5	-406.8	93.9	1485.7	-7953.8
	118	-10505.1	4034.5	406.8	-93.9	45.8	-7182.8
66	18	9821.6	-3057.7	-2601.8	-156.7	5723.1	-5953.0
	118	-8134.1	3057.7	2601.8	156.7	4033.7	-5515.0
67	18	7933.3	880.3	-2236.7	-121.0	4982.7	2569.5
	118	-6245.8	-880.3	2236.7	121.0	3402.9	730.2
68	18	9035.0	-774.8	-1995.0	62.3	4524.3	-891.2
	118	-7347.5	774.8	1995.0	-62.3	2958.8	-2038.4
69	18	7146.8	3163.2	-1629.8	98.0	3783.8	7631.3
	118	-5459.3	-3163.2	1629.8	-98.0	2327.9	4206.8
70	18	8109.0	6041.3	1417.8	-90.4	-2105.7	13831.1
	118	-6421.5	-6041.3	-1417.8	90.4	-3217.2	8830.9
71	18	7109.1	5470.9	-155.0	-109.0	932.4	12571.4
	118	-5421.6	-5470.9	155.0	109.0	-357.3	7944.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
72	18	6898.3	9662.7	2383.2	231.5	-4020.4	21714.2
	118	-5210.8	-9662.7	-2383.2	-231.5	-4916.9	14521.3
73	18	5898.3	9092.3	810.4	212.9	-982.4	20454.5
	118	-4210.8	-9092.3	-810.4	-212.9	-2057.0	13634.4

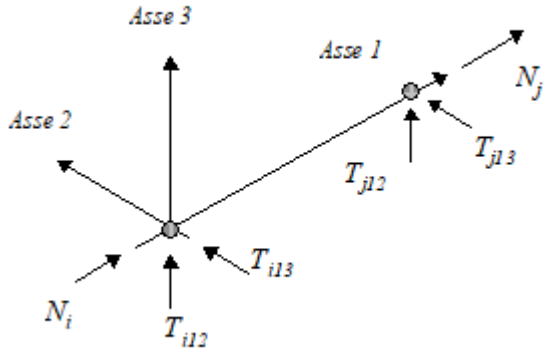
Sollecitazioni nelle travi

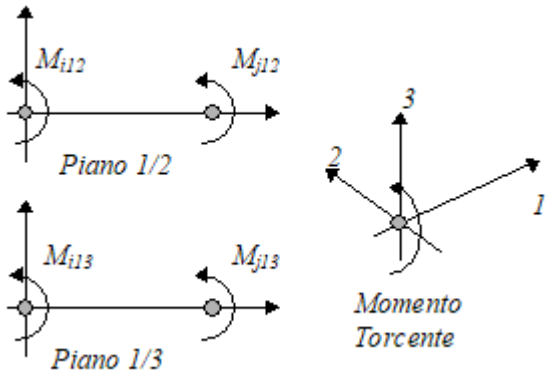
Convenzioni adottate

Le sollecitazioni nelle travi sono da intendersi nel sistema di riferimento locale dell'elemento, e si riferiscono all'asta. L'orientamento della trave nello spazio è definito a mezzo del nodo *K*.
La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni se così diretti:





Per ogni trave vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
1	103	0.0	14571.1	-348.4	3140.2	321.1	13104.2
	101	0.0	11901.3	-348.4	4991.3	-321.1	-5722.3
2	103	0.0	11876.9	-348.4	1614.7	321.1	10628.0
	101	0.0	9530.4	-348.4	2723.3	-321.1	-4140.0
3	103	0.0	11488.8	-348.4	1512.2	321.1	10282.2
	101	0.0	9208.3	-348.4	2569.3	-321.1	-3976.6
4	103	0.0	11488.8	-348.4	1512.2	321.1	10282.2
	101	0.0	9208.3	-348.4	2569.3	-321.1	-3976.6
5	103	0.0	11488.8	-962.2	1512.2	886.8	10282.2
	101	0.0	9208.3	-962.2	2569.3	-886.8	-3976.6
6	103	0.0	11488.8	33.2	1512.2	-30.6	10282.2
	101	0.0	9208.3	33.2	2569.3	30.6	-3976.6
7	103	64189.8	11488.8	-348.4	1512.2	321.1	10282.2
	101	-64189.8	9208.3	-348.4	2569.3	-321.1	-3976.6
8	103	-64189.8	11488.8	-348.4	1512.2	321.1	10282.2
	101	64189.8	9208.3	-348.4	2569.3	-321.1	-3976.6
9	103	0.0	9385.0	0.0	923.4	0.0	12301.0
	101	0.0	4271.3	0.0	1626.6	0.0	2334.6
10	103	0.0	9595.7	0.0	1104.9	0.0	12951.6
	101	0.0	4060.6	0.0	1445.1	0.0	2352.9
11	103	0.0	9093.6	0.0	707.6	0.0	11400.6
	101	0.0	4562.8	0.0	1842.4	0.0	1127.1
12	103	0.0	9304.2	0.0	889.0	0.0	12051.1
	101	0.0	4352.1	0.0	1661.0	0.0	1145.4
13	103	0.0	7818.1	0.0	756.9	0.0	7496.1
	101	0.0	5838.2	0.0	1793.1	0.0	-367.8
14	103	0.0	6762.6	0.0	774.8	0.0	4263.8
	101	0.0	6893.7	0.0	1775.2	0.0	-2972.3
15	103	0.0	7706.1	0.0	492.8	0.0	7145.5
	101	0.0	5950.3	0.0	2057.2	0.0	-2290.6
16	103	0.0	6650.6	0.0	510.8	0.0	3913.2
	101	0.0	7005.7	0.0	2039.2	0.0	-4895.2
17	103	0.0	5866.7	0.0	983.4	0.0	1526.6
	101	0.0	7789.6	0.0	1566.6	0.0	-6347.2
18	103	0.0	6077.4	0.0	1164.8	0.0	2177.2
	101	0.0	7578.9	0.0	1385.2	0.0	-6328.9
19	103	0.0	5575.3	0.0	767.5	0.0	626.2
	101	0.0	8081.1	0.0	1782.5	0.0	-7554.7
20	103	0.0	5785.9	0.0	948.9	0.0	1276.7
	101	0.0	7870.4	0.0	1601.1	0.0	-7536.4
21	103	0.0	8520.4	0.0	1361.6	0.0	9664.6
	101	0.0	5135.9	0.0	1188.4	0.0	-306.6
22	103	0.0	7464.9	0.0	1379.6	0.0	6432.3
	101	0.0	6191.4	0.0	1170.4	0.0	-2911.1
23	103	0.0	8408.3	0.0	1097.6	0.0	9314.0
	101	0.0	5248.0	0.0	1452.4	0.0	-2229.5
24	103	0.0	7352.8	0.0	1115.5	0.0	6081.7
	101	0.0	6303.5	0.0	1434.5	0.0	-4834.0
25	103	0.0	9899.1	-232.3	2089.9	214.1	8900.8
	101	0.0	8081.0	-232.3	3331.1	-214.1	-3873.7
26	103	0.0	8103.0	-232.3	1072.9	214.1	7249.9
	101	0.0	6500.4	-232.3	1819.1	-214.1	-2818.8
27	103	0.0	7844.2	-232.3	1004.5	214.1	7019.4
	101	0.0	6285.6	-232.3	1716.5	-214.1	-2709.8
28	103	0.0	7844.2	-232.3	1004.5	214.1	7019.4
	101	0.0	6285.6	-232.3	1716.5	-214.1	-2709.8
29	103	0.0	7844.2	-641.5	1004.5	591.2	7019.4
	101	0.0	6285.6	-641.5	1716.5	-591.2	-2709.8
30	103	0.0	7844.2	22.1	1004.5	-20.4	7019.4
	101	0.0	6285.6	22.1	1716.5	20.4	-2709.8
31	103	42793.2	7844.2	-232.3	1004.5	214.1	7019.4
	101	-42793.2	6285.6	-232.3	1716.5	-214.1	-2709.8
32	103	-42793.2	7844.2	-232.3	1004.5	214.1	7019.4
	101	42793.2	6285.6	-232.3	1716.5	-214.1	-2709.8
33	103	0.0	7585.5	0.0	936.2	0.0	6788.9
	101	0.0	6070.8	0.0	1613.8	0.0	-2600.9
34	103	0.0	7689.0	0.0	963.5	0.0	6881.1
	101	0.0	6156.8	0.0	1654.9	0.0	-2644.5
35	103	0.0	7585.5	0.0	936.2	0.0	6788.9
	101	0.0	6070.8	0.0	1613.8	0.0	-2600.9
36	103	0.0	7585.5	0.0	936.2	0.0	6788.9
	101	0.0	6070.8	0.0	1613.8	0.0	-2600.9
37	103	0.0	7585.5	-204.6	936.2	188.6	6788.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	101	0.0	6070.8	-204.6	1613.8	-188.6	-2600.9
38	103	0.0	7585.5	127.2	936.2	-117.2	6788.9
	101	0.0	6070.8	127.2	1613.8	117.2	-2600.9
39	103	53491.5	7585.5	0.0	936.2	0.0	6788.9
	101	-53491.5	6070.8	0.0	1613.8	0.0	-2600.9
40	103	-53491.5	7585.5	0.0	936.2	0.0	6788.9
	101	53491.5	6070.8	0.0	1613.8	0.0	-2600.9
41	103	0.0	7585.5	0.0	936.2	0.0	6788.9
	101	0.0	6070.8	0.0	1613.8	0.0	-2600.9
42	103	0.0	9386.9	0.0	925.6	0.0	12309.8
	101	0.0	4269.5	0.0	1624.4	0.0	1839.8
43	103	0.0	9396.2	0.0	1087.9	0.0	12340.1
	101	0.0	4260.1	0.0	1462.1	0.0	1861.3
44	103	0.0	8942.8	0.0	731.1	0.0	10939.6
	101	0.0	4713.5	0.0	1818.9	0.0	754.5
45	103	0.0	8952.2	0.0	893.4	0.0	10969.9
	101	0.0	4704.1	0.0	1656.6	0.0	776.1
46	103	0.0	8395.9	0.0	778.2	0.0	9276.9
	101	0.0	5260.4	0.0	1771.8	0.0	-607.2
47	103	0.0	7445.5	0.0	794.2	0.0	6366.3
	101	0.0	6210.8	0.0	1755.8	0.0	-2952.5
48	103	0.0	7694.2	0.0	537.0	0.0	7110.5
	101	0.0	5962.1	0.0	2013.0	0.0	-2321.1
49	103	0.0	6743.8	0.0	553.0	0.0	4199.9
	101	0.0	6912.5	0.0	1997.0	0.0	-4666.4
50	103	0.0	6218.8	0.0	979.0	0.0	2607.9
	101	0.0	7437.6	0.0	1571.0	0.0	-5977.8
51	103	0.0	6228.1	0.0	1141.3	0.0	2638.1
	101	0.0	7428.2	0.0	1408.7	0.0	-5956.3
52	103	0.0	5774.7	0.0	784.5	0.0	1237.7
	101	0.0	7881.6	0.0	1765.5	0.0	-7063.1
53	103	0.0	5784.1	0.0	946.8	0.0	1268.0
	101	0.0	7872.2	0.0	1603.2	0.0	-7041.6
54	103	0.0	8427.2	0.0	1319.4	0.0	9377.8
	101	0.0	5229.2	0.0	1230.6	0.0	-535.4
55	103	0.0	7476.7	0.0	1335.4	0.0	6467.3
	101	0.0	6179.6	0.0	1214.6	0.0	-2880.7
56	103	0.0	7725.5	0.0	1078.1	0.0	7211.4
	101	0.0	5930.9	0.0	1471.9	0.0	-2249.3
57	103	0.0	6775.0	0.0	1094.2	0.0	4300.8
	101	0.0	6881.3	0.0	1455.8	0.0	-4594.6
58	103	0.0	9691.6	0.0	923.5	0.0	13243.7
	101	0.0	3964.8	0.0	1626.5	0.0	2591.0
59	103	0.0	9702.0	0.0	1113.5	0.0	13277.4
	101	0.0	3954.3	0.0	1436.5	0.0	2614.8
60	103	0.0	9172.1	0.0	696.4	0.0	11640.8
	101	0.0	4484.2	0.0	1853.6	0.0	1321.3
61	103	0.0	9182.5	0.0	886.4	0.0	11674.5
	101	0.0	4473.8	0.0	1663.6	0.0	1345.2
62	103	0.0	8534.5	0.0	750.7	0.0	9702.5
	101	0.0	5121.8	0.0	1799.3	0.0	-266.3
63	103	0.0	7423.6	0.0	769.4	0.0	6300.3
	101	0.0	6232.7	0.0	1780.6	0.0	-3007.7
64	103	0.0	7712.6	0.0	469.6	0.0	7164.9
	101	0.0	5943.7	0.0	2080.4	0.0	-2273.8
65	103	0.0	6601.7	0.0	488.3	0.0	3762.7
	101	0.0	7054.6	0.0	2061.7	0.0	-5015.2
66	103	0.0	5988.4	0.0	986.0	0.0	1903.2
	101	0.0	7667.9	0.0	1564.0	0.0	-6547.0
67	103	0.0	5998.9	0.0	1176.0	0.0	1937.0
	101	0.0	7657.5	0.0	1374.0	0.0	-6523.1
68	103	0.0	5469.0	0.0	758.9	0.0	300.3
	101	0.0	8187.4	0.0	1791.1	0.0	-7816.6
69	103	0.0	5479.4	0.0	948.9	0.0	334.1
	101	0.0	8176.9	0.0	1601.1	0.0	-7792.7
70	103	0.0	8569.3	0.0	1384.1	0.0	9815.0
	101	0.0	5087.0	0.0	1165.9	0.0	-186.6
71	103	0.0	7458.3	0.0	1402.8	0.0	6412.9
	101	0.0	6198.0	0.0	1147.2	0.0	-2928.0
72	103	0.0	7747.4	0.0	1103.0	0.0	7277.4
	101	0.0	5908.9	0.0	1447.0	0.0	-2194.1
73	103	0.0	6636.4	0.0	1121.7	0.0	3875.3
	101	0.0	7019.9	0.0	1428.3	0.0	-4935.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
1	104	0.0	11617.0	-328.9	3776.5	286.1	9122.3
	103	0.0	13371.4	-328.9	4355.0	-286.1	-13701.3
2	104	0.0	9411.6	-328.9	2008.7	286.1	7446.2
	103	0.0	10795.7	-328.9	2329.3	-286.1	-11058.8
3	104	0.0	9108.1	-328.9	1890.2	286.1	7224.3
	103	0.0	10428.8	-328.9	2191.3	-286.1	-10671.4
4	104	0.0	9108.1	-328.9	1890.2	286.1	7224.3
	103	0.0	10428.8	-328.9	2191.3	-286.1	-10671.4
5	104	0.0	9108.1	-908.3	1890.2	790.2	7224.3
	103	0.0	10428.8	-908.3	2191.3	-790.2	-10671.4
6	104	0.0	9108.1	31.3	1890.2	-27.2	7224.3
	103	0.0	10428.8	31.3	2191.3	27.2	-10671.4
7	104	64189.8	9108.1	-328.9	1890.2	286.1	7224.3
	103	-64189.8	10428.8	-328.9	2191.3	-286.1	-10671.4
8	104	-64189.8	9108.1	-328.9	1890.2	286.1	7224.3
	103	64189.8	10428.8	-328.9	2191.3	-286.1	-10671.4
9	104	0.0	8963.8	0.0	1179.1	0.0	12300.5
	103	0.0	3927.0	0.0	1370.9	0.0	845.4
10	104	0.0	8724.0	0.0	1173.0	0.0	11684.8
	103	0.0	4166.7	0.0	1377.0	0.0	207.3
11	104	0.0	8481.6	0.0	1122.3	0.0	11053.9
	103	0.0	4409.2	0.0	1427.7	0.0	-422.3
12	104	0.0	8241.9	0.0	1116.2	0.0	10438.2
	103	0.0	4648.9	0.0	1433.8	0.0	-1060.4
13	104	0.0	7487.4	0.0	1224.5	0.0	8535.0
	103	0.0	5403.3	0.0	1325.5	0.0	-3095.3
14	104	0.0	5920.6	0.0	1242.7	0.0	4543.9
	103	0.0	6970.2	0.0	1307.3	0.0	-7283.2
15	104	0.0	6861.2	0.0	1133.7	0.0	6943.5
	103	0.0	6029.6	0.0	1416.3	0.0	-4764.6
16	104	0.0	5294.4	0.0	1151.9	0.0	2952.4
	103	0.0	7596.4	0.0	1398.1	0.0	-8952.5
17	104	0.0	3740.9	0.0	1239.8	0.0	-1003.2
	103	0.0	9149.9	0.0	1310.2	0.0	-13114.5
18	104	0.0	3501.1	0.0	1233.6	0.0	-1618.9
	103	0.0	9389.6	0.0	1316.4	0.0	-13752.6
19	104	0.0	3258.7	0.0	1183.0	0.0	-2249.8
	103	0.0	9632.1	0.0	1367.0	0.0	-14382.1
20	104	0.0	3019.0	0.0	1176.8	0.0	-2865.5
	103	0.0	9871.8	0.0	1373.2	0.0	-15020.2
21	104	0.0	6688.4	0.0	1204.0	0.0	6482.6
	103	0.0	6202.4	0.0	1346.0	0.0	-5222.3
22	104	0.0	5121.5	0.0	1222.2	0.0	2491.5
	103	0.0	7769.2	0.0	1327.8	0.0	-9410.3
23	104	0.0	6062.2	0.0	1113.2	0.0	4891.0
	103	0.0	6828.6	0.0	1436.8	0.0	-6891.6
24	104	0.0	4495.3	0.0	1131.4	0.0	899.9
	103	0.0	8395.5	0.0	1418.6	0.0	-11079.6
25	104	0.0	7866.4	-219.2	2514.6	190.7	6130.8
	103	0.0	9105.8	-219.2	2906.4	-190.7	-9365.6
26	104	0.0	6396.1	-219.2	1336.0	190.7	5013.4
	103	0.0	7388.6	-219.2	1556.0	-190.7	-7604.0
27	104	0.0	6193.7	-219.2	1257.0	190.7	4865.5
	103	0.0	7144.0	-219.2	1464.0	-190.7	-7345.7
28	104	0.0	6193.7	-219.2	1257.0	190.7	4865.5
	103	0.0	7144.0	-219.2	1464.0	-190.7	-7345.7
29	104	0.0	6193.7	-605.5	1257.0	526.8	4865.5
	103	0.0	7144.0	-605.5	1464.0	-526.8	-7345.7
30	104	0.0	6193.7	20.9	1257.0	-18.2	4865.5
	103	0.0	7144.0	20.9	1464.0	18.2	-7345.7
31	104	42793.2	6193.7	-219.2	1257.0	190.7	4865.5
	103	-42793.2	7144.0	-219.2	1464.0	-190.7	-7345.7
32	104	-42793.2	6193.7	-219.2	1257.0	190.7	4865.5
	103	42793.2	7144.0	-219.2	1464.0	-190.7	-7345.7
33	104	0.0	5991.4	0.0	1178.0	0.0	4717.5
	103	0.0	6899.4	0.0	1372.0	0.0	-7087.4
34	104	0.0	6072.3	0.0	1209.6	0.0	4776.7
	103	0.0	6997.2	0.0	1408.8	0.0	-7190.7
35	104	0.0	5991.4	0.0	1178.0	0.0	4717.5
	103	0.0	6899.4	0.0	1372.0	0.0	-7087.4
36	104	0.0	5991.4	0.0	1178.0	0.0	4717.5
	103	0.0	6899.4	0.0	1372.0	0.0	-7087.4

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
37	104	0.0	5991.4	-193.1	1178.0	168.0	4717.5
	103	0.0	6899.4	-193.1	1372.0	-168.0	-7087.4
38	104	0.0	5991.4	120.1	1178.0	-104.5	4717.5
	103	0.0	6899.4	120.1	1372.0	104.5	-7087.4
39	104	53491.5	5991.4	0.0	1178.0	0.0	4717.5
	103	-53491.5	6899.4	0.0	1372.0	0.0	-7087.4
40	104	-53491.5	5991.4	0.0	1178.0	0.0	4717.5
	103	53491.5	6899.4	0.0	1372.0	0.0	-7087.4
41	104	0.0	5991.4	0.0	1178.0	0.0	4717.5
	103	0.0	6899.4	0.0	1372.0	0.0	-7087.4
42	104	0.0	8667.9	0.0	1178.9	0.0	11545.6
	103	0.0	4222.9	0.0	1371.1	0.0	56.0
43	104	0.0	8454.1	0.0	1173.5	0.0	10996.4
	103	0.0	4436.7	0.0	1376.5	0.0	-513.4
44	104	0.0	8232.2	0.0	1128.0	0.0	10419.1
	103	0.0	4658.6	0.0	1422.0	0.0	-1089.8
45	104	0.0	8018.3	0.0	1122.6	0.0	9869.9
	103	0.0	4872.5	0.0	1427.4	0.0	-1659.3
46	104	0.0	7335.5	0.0	1219.4	0.0	8146.8
	103	0.0	5555.3	0.0	1330.6	0.0	-3500.0
47	104	0.0	5924.5	0.0	1235.7	0.0	4552.6
	103	0.0	6966.3	0.0	1314.3	0.0	-7271.5
48	104	0.0	6771.1	0.0	1138.2	0.0	6713.0
	103	0.0	6119.7	0.0	1411.8	0.0	-5005.1
49	104	0.0	5360.1	0.0	1154.6	0.0	3118.9
	103	0.0	7530.7	0.0	1395.4	0.0	-8776.6
50	104	0.0	3964.5	0.0	1233.4	0.0	-434.9
	103	0.0	8926.3	0.0	1316.6	0.0	-12515.5
51	104	0.0	3750.6	0.0	1228.0	0.0	-984.1
	103	0.0	9140.2	0.0	1322.0	0.0	-13085.0
52	104	0.0	3528.7	0.0	1182.4	0.0	-1561.4
	103	0.0	9362.1	0.0	1367.6	0.0	-13661.4
53	104	0.0	3314.9	0.0	1177.0	0.0	-2110.6
	103	0.0	9575.9	0.0	1373.0	0.0	-14230.9
54	104	0.0	6622.7	0.0	1201.4	0.0	6316.1
	103	0.0	6268.1	0.0	1348.6	0.0	-5398.2
55	104	0.0	5211.7	0.0	1217.7	0.0	2722.0
	103	0.0	7679.1	0.0	1332.3	0.0	-9169.7
56	104	0.0	6058.3	0.0	1120.3	0.0	4882.3
	103	0.0	6832.5	0.0	1429.7	0.0	-6903.3
57	104	0.0	4647.2	0.0	1136.6	0.0	1288.2
	103	0.0	8243.6	0.0	1413.4	0.0	-10674.8
58	104	0.0	9120.1	0.0	1179.1	0.0	12699.3
	103	0.0	3770.7	0.0	1370.9	0.0	1262.9
59	104	0.0	8869.9	0.0	1172.8	0.0	12056.7
	103	0.0	4020.9	0.0	1377.2	0.0	596.7
60	104	0.0	8610.6	0.0	1119.5	0.0	11382.1
	103	0.0	4280.2	0.0	1430.5	0.0	-76.8
61	104	0.0	8360.4	0.0	1113.2	0.0	10739.5
	103	0.0	4530.4	0.0	1436.8	0.0	-743.1
62	104	0.0	7563.3	0.0	1226.5	0.0	8728.1
	103	0.0	5327.5	0.0	1323.5	0.0	-2892.2
63	104	0.0	5914.0	0.0	1245.6	0.0	4527.0
	103	0.0	6976.8	0.0	1304.4	0.0	-7300.6
64	104	0.0	6902.8	0.0	1131.5	0.0	7050.1
	103	0.0	5988.0	0.0	1418.5	0.0	-4653.4
65	104	0.0	5253.5	0.0	1150.6	0.0	2848.9
	103	0.0	7637.3	0.0	1399.4	0.0	-9061.8
66	104	0.0	3622.3	0.0	1242.8	0.0	-1304.5
	103	0.0	9268.4	0.0	1307.2	0.0	-13431.8
67	104	0.0	3372.1	0.0	1236.4	0.0	-1947.1
	103	0.0	9518.6	0.0	1313.6	0.0	-14098.0
68	104	0.0	3112.9	0.0	1183.2	0.0	-2621.7
	103	0.0	9777.9	0.0	1366.8	0.0	-14771.5
69	104	0.0	2862.6	0.0	1176.8	0.0	-3264.3
	103	0.0	10028.1	0.0	1373.2	0.0	-15437.7
70	104	0.0	6729.3	0.0	1205.3	0.0	6586.1
	103	0.0	6161.5	0.0	1344.7	0.0	-5113.0
71	104	0.0	5080.0	0.0	1224.4	0.0	2384.9
	103	0.0	7810.8	0.0	1325.6	0.0	-9521.4
72	104	0.0	6068.8	0.0	1110.4	0.0	4908.0
	103	0.0	6822.0	0.0	1439.6	0.0	-6874.2
73	104	0.0	4419.4	0.0	1129.5	0.0	706.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	103	0.0	8471.3	0.0	1420.5	0.0	-11282.7
1	105	0.0	14566.9	-362.3	3620.3	347.2	15122.3
	104	0.0	12958.7	-362.3	4511.2	-347.2	-10498.9
2	105	0.0	11770.6	-362.3	1936.3	347.2	12210.3
	104	0.0	10488.3	-362.3	2401.7	-347.2	-8523.7
3	105	0.0	11376.7	-362.3	1821.6	347.2	11798.0
	104	0.0	10143.8	-362.3	2259.9	-347.2	-8253.5
4	105	0.0	11376.7	-362.3	1821.6	347.2	11798.0
	104	0.0	10143.8	-362.3	2259.9	-347.2	-8253.5
5	105	0.0	11376.7	-1000.5	1821.6	958.8	11798.0
	104	0.0	10143.8	-1000.5	2259.9	-958.8	-8253.5
6	105	0.0	11376.7	34.5	1821.6	-33.1	11798.0
	104	0.0	10143.8	34.5	2259.9	33.1	-8253.5
7	105	64189.8	11376.7	-362.3	1821.6	347.2	11798.0
	104	-64189.8	10143.8	-362.3	2259.9	-347.2	-8253.5
8	105	-64189.8	11376.7	-362.3	1821.6	347.2	11798.0
	104	64189.8	10143.8	-362.3	2259.9	-347.2	-8253.5
9	105	0.0	10136.0	0.0	1168.6	0.0	15414.2
	104	0.0	4063.6	0.0	1381.4	0.0	2044.1
10	105	0.0	10107.6	0.0	1162.5	0.0	15326.5
	104	0.0	4092.1	0.0	1387.5	0.0	1968.1
11	105	0.0	9611.5	0.0	1105.4	0.0	13912.4
	104	0.0	4588.1	0.0	1444.6	0.0	529.8
12	105	0.0	9583.0	0.0	1099.3	0.0	13824.7
	104	0.0	4616.6	0.0	1450.7	0.0	453.7
13	105	0.0	8677.2	0.0	1194.7	0.0	11171.9
	104	0.0	5522.5	0.0	1355.3	0.0	-2102.0
14	105	0.0	7273.6	0.0	1198.3	0.0	7092.3
	104	0.0	6926.1	0.0	1351.7	0.0	-6093.2
15	105	0.0	7861.7	0.0	1101.9	0.0	8840.5
	104	0.0	6337.9	0.0	1448.1	0.0	-4459.4
16	105	0.0	6458.1	0.0	1105.5	0.0	4760.9
	104	0.0	7741.5	0.0	1444.5	0.0	-8450.6
17	105	0.0	5457.3	0.0	1180.6	0.0	1815.6
	104	0.0	8742.3	0.0	1369.4	0.0	-11260.0
18	105	0.0	5428.8	0.0	1174.5	0.0	1727.9
	104	0.0	8770.8	0.0	1375.5	0.0	-11336.1
19	105	0.0	4932.8	0.0	1117.4	0.0	313.9
	104	0.0	9266.8	0.0	1432.6	0.0	-12774.3
20	105	0.0	4904.3	0.0	1111.3	0.0	226.2
	104	0.0	9295.3	0.0	1438.7	0.0	-12850.4
21	105	0.0	8582.2	0.0	1174.4	0.0	10879.4
	104	0.0	5617.4	0.0	1375.6	0.0	-2355.6
22	105	0.0	7178.6	0.0	1178.0	0.0	6799.9
	104	0.0	7021.0	0.0	1372.0	0.0	-6346.8
23	105	0.0	7766.8	0.0	1081.7	0.0	8548.1
	104	0.0	6432.8	0.0	1468.3	0.0	-4713.0
24	105	0.0	6363.2	0.0	1085.3	0.0	4468.5
	104	0.0	7836.5	0.0	1464.7	0.0	-8704.2
25	105	0.0	9909.6	-241.5	2415.6	231.4	10311.2
	104	0.0	8785.8	-241.5	3005.4	-231.4	-7080.2
26	105	0.0	8045.5	-241.5	1293.0	231.4	8369.9
	104	0.0	7138.9	-241.5	1599.0	-231.4	-5763.4
27	105	0.0	7782.8	-241.5	1216.5	231.4	8095.0
	104	0.0	6909.2	-241.5	1504.5	-231.4	-5583.3
28	105	0.0	7782.8	-241.5	1216.5	231.4	8095.0
	104	0.0	6909.2	-241.5	1504.5	-231.4	-5583.3
29	105	0.0	7782.8	-667.0	1216.5	639.2	8095.0
	104	0.0	6909.2	-667.0	1504.5	-639.2	-5583.3
30	105	0.0	7782.8	23.0	1216.5	-22.0	8095.0
	104	0.0	6909.2	23.0	1504.5	22.0	-5583.3
31	105	42793.2	7782.8	-241.5	1216.5	231.4	8095.0
	104	-42793.2	6909.2	-241.5	1504.5	-231.4	-5583.3
32	105	-42793.2	7782.8	-241.5	1216.5	231.4	8095.0
	104	42793.2	6909.2	-241.5	1504.5	-231.4	-5583.3
33	105	0.0	7520.2	0.0	1140.0	0.0	7820.2
	104	0.0	6679.5	0.0	1410.0	0.0	-5403.1
34	105	0.0	7625.2	0.0	1170.6	0.0	7930.1
	104	0.0	6771.3	0.0	1447.8	0.0	-5475.2
35	105	0.0	7520.2	0.0	1140.0	0.0	7820.2
	104	0.0	6679.5	0.0	1410.0	0.0	-5403.1
36	105	0.0	7520.2	0.0	1140.0	0.0	7820.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	104	0.0	6679.5	0.0	1410.0	0.0	-5403.1
37	105	0.0	7520.2	-212.8	1140.0	203.9	7820.2
	104	0.0	6679.5	-212.8	1410.0	-203.9	-5403.1
38	105	0.0	7520.2	132.3	1140.0	-126.7	7820.2
	104	0.0	6679.5	132.3	1410.0	126.7	-5403.1
39	105	53491.5	7520.2	0.0	1140.0	0.0	7820.2
	104	-53491.5	6679.5	0.0	1410.0	0.0	-5403.1
40	105	-53491.5	7520.2	0.0	1140.0	0.0	7820.2
	104	53491.5	6679.5	0.0	1410.0	0.0	-5403.1
41	105	0.0	7520.2	0.0	1140.0	0.0	7820.2
	104	0.0	6679.5	0.0	1410.0	0.0	-5403.1
42	105	0.0	9874.7	0.0	1165.5	0.0	14655.5
	104	0.0	4325.0	0.0	1384.5	0.0	1299.9
43	105	0.0	9850.7	0.0	1160.2	0.0	14581.3
	104	0.0	4348.9	0.0	1389.8	0.0	1236.4
44	105	0.0	9403.0	0.0	1109.1	0.0	13305.0
	104	0.0	4796.7	0.0	1440.9	0.0	-61.9
45	105	0.0	9379.0	0.0	1103.8	0.0	13230.8
	104	0.0	4820.6	0.0	1446.2	0.0	-125.4
46	105	0.0	8555.9	0.0	1188.7	0.0	10820.9
	104	0.0	5643.8	0.0	1361.3	0.0	-2448.5
47	105	0.0	7291.9	0.0	1191.8	0.0	7147.1
	104	0.0	6907.8	0.0	1358.2	0.0	-6042.8
48	105	0.0	7828.3	0.0	1105.9	0.0	8740.5
	104	0.0	6371.4	0.0	1444.1	0.0	-4551.9
49	105	0.0	6564.3	0.0	1109.1	0.0	5066.7
	104	0.0	7635.4	0.0	1440.9	0.0	-8146.1
50	105	0.0	5661.3	0.0	1176.2	0.0	2409.6
	104	0.0	8538.3	0.0	1373.8	0.0	-10680.8
51	105	0.0	5637.4	0.0	1170.8	0.0	2335.4
	104	0.0	8562.2	0.0	1379.2	0.0	-10744.3
52	105	0.0	5189.6	0.0	1119.7	0.0	1059.0
	104	0.0	9010.0	0.0	1430.3	0.0	-12042.6
53	105	0.0	5165.7	0.0	1114.4	0.0	984.9
	104	0.0	9033.9	0.0	1435.6	0.0	-12106.1
54	105	0.0	8476.1	0.0	1170.9	0.0	10573.6
	104	0.0	5723.6	0.0	1379.1	0.0	-2660.1
55	105	0.0	7212.1	0.0	1174.1	0.0	6899.9
	104	0.0	6987.6	0.0	1375.9	0.0	-6254.4
56	105	0.0	7748.5	0.0	1088.1	0.0	8493.3
	104	0.0	6451.1	0.0	1461.9	0.0	-4763.5
57	105	0.0	6484.5	0.0	1091.3	0.0	4819.5
	104	0.0	7715.1	0.0	1458.7	0.0	-8357.7
58	105	0.0	10272.7	0.0	1169.9	0.0	15811.1
	104	0.0	3926.9	0.0	1380.1	0.0	2433.1
59	105	0.0	10244.3	0.0	1163.6	0.0	15723.1
	104	0.0	3955.4	0.0	1386.4	0.0	2357.6
60	105	0.0	9721.0	0.0	1103.9	0.0	14231.4
	104	0.0	4478.7	0.0	1446.1	0.0	840.2
61	105	0.0	9692.5	0.0	1097.6	0.0	14143.4
	104	0.0	4507.1	0.0	1452.4	0.0	764.7
62	105	0.0	8732.3	0.0	1197.0	0.0	11331.9
	104	0.0	5467.3	0.0	1353.0	0.0	-1945.1
63	105	0.0	7254.8	0.0	1200.7	0.0	7037.7
	104	0.0	6944.8	0.0	1349.3	0.0	-6146.3
64	105	0.0	7880.3	0.0	1100.1	0.0	8896.0
	104	0.0	6319.3	0.0	1449.9	0.0	-4408.1
65	105	0.0	6402.9	0.0	1103.8	0.0	4601.8
	104	0.0	7796.8	0.0	1446.2	0.0	-8609.3
66	105	0.0	5347.8	0.0	1182.3	0.0	1497.0
	104	0.0	8851.8	0.0	1367.7	0.0	-11570.9
67	105	0.0	5319.4	0.0	1176.1	0.0	1409.0
	104	0.0	8880.2	0.0	1373.9	0.0	-11646.5
68	105	0.0	4796.1	0.0	1116.3	0.0	-82.7
	104	0.0	9403.5	0.0	1433.7	0.0	-13163.8
69	105	0.0	4767.6	0.0	1110.0	0.0	-170.7
	104	0.0	9432.0	0.0	1440.0	0.0	-13239.4
70	105	0.0	8637.5	0.0	1176.1	0.0	11038.6
	104	0.0	5562.1	0.0	1373.9	0.0	-2197.0
71	105	0.0	7160.0	0.0	1179.8	0.0	6744.4
	104	0.0	7039.6	0.0	1370.2	0.0	-6398.2
72	105	0.0	7785.5	0.0	1079.2	0.0	8602.6
	104	0.0	6414.1	0.0	1470.8	0.0	-4659.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
73	105	0.0	6308.0	0.0	1082.9	0.0	4308.4
	104	0.0	7891.6	0.0	1467.1	0.0	-8861.1
1	107	0.0	12522.6	-352.8	4089.9	329.3	8722.8
	105	0.0	14285.0	-352.8	4041.6	-329.3	-13657.6
2	107	0.0	10059.0	-352.8	2224.0	329.3	6760.9
	105	0.0	11619.3	-352.8	2114.0	-329.3	-11129.6
3	107	0.0	9716.0	-352.8	2097.6	329.3	6506.8
	105	0.0	11243.0	-352.8	1983.9	-329.3	-10782.3
4	107	0.0	9716.0	-352.8	2097.6	329.3	6506.8
	105	0.0	11243.0	-352.8	1983.9	-329.3	-10782.3
5	107	0.0	9716.0	-974.4	2097.6	909.4	6506.8
	105	0.0	11243.0	-974.4	1983.9	-909.4	-10782.3
6	107	0.0	9716.0	33.6	2097.6	-31.4	6506.8
	105	0.0	11243.0	33.6	1983.9	31.4	-10782.3
7	107	64189.8	9716.0	-352.8	2097.6	329.3	6506.8
	105	-64189.8	11243.0	-352.8	1983.9	-329.3	-10782.3
8	107	-64189.8	9716.0	-352.8	2097.6	329.3	6506.8
	105	64189.8	11243.0	-352.8	1983.9	-329.3	-10782.3
9	107	0.0	9214.0	0.0	1264.2	0.0	12992.6
	105	0.0	4615.2	0.0	1285.8	0.0	-115.9
10	107	0.0	9088.3	0.0	1257.2	0.0	12597.2
	105	0.0	4740.9	0.0	1292.8	0.0	-424.4
11	107	0.0	8630.7	0.0	1230.3	0.0	11173.9
	105	0.0	5198.5	0.0	1319.7	0.0	-1563.8
12	107	0.0	8505.0	0.0	1223.2	0.0	10778.5
	105	0.0	5324.2	0.0	1326.8	0.0	-1872.3
13	107	0.0	7805.5	0.0	1335.7	0.0	8632.7
	105	0.0	6023.7	0.0	1214.3	0.0	-3643.7
14	107	0.0	6335.2	0.0	1380.3	0.0	4071.7
	105	0.0	7494.0	0.0	1169.7	0.0	-7316.1
15	107	0.0	6901.9	0.0	1279.3	0.0	5814.0
	105	0.0	6927.3	0.0	1270.7	0.0	-5885.2
16	107	0.0	5431.6	0.0	1323.9	0.0	1253.0
	105	0.0	8397.6	0.0	1226.1	0.0	-9557.6
17	107	0.0	4313.2	0.0	1412.9	0.0	-2210.9
	105	0.0	9516.0	0.0	1137.1	0.0	-12357.2
18	107	0.0	4187.5	0.0	1405.8	0.0	-2606.3
	105	0.0	9641.7	0.0	1144.2	0.0	-12665.7
19	107	0.0	3729.8	0.0	1378.9	0.0	-4029.5
	105	0.0	10099.4	0.0	1171.1	0.0	-13805.1
20	107	0.0	3604.2	0.0	1371.9	0.0	-4425.0
	105	0.0	10225.0	0.0	1178.1	0.0	-14113.6
21	107	0.0	7386.5	0.0	1312.2	0.0	7314.6
	105	0.0	6442.7	0.0	1237.8	0.0	-4671.9
22	107	0.0	5916.3	0.0	1356.8	0.0	2753.6
	105	0.0	7913.0	0.0	1193.2	0.0	-8344.3
23	107	0.0	6482.9	0.0	1255.8	0.0	4495.9
	105	0.0	7346.3	0.0	1294.2	0.0	-6913.4
24	107	0.0	5012.7	0.0	1300.4	0.0	-65.1
	105	0.0	8816.5	0.0	1249.6	0.0	-10585.8
25	107	0.0	8508.7	-235.2	2730.5	219.5	5930.6
	105	0.0	9699.0	-235.2	2690.5	-219.5	-9263.2
26	107	0.0	6866.4	-235.2	1486.6	219.5	4622.7
	105	0.0	7921.8	-235.2	1405.4	-219.5	-7577.8
27	107	0.0	6637.7	-235.2	1402.3	219.5	4453.2
	105	0.0	7671.0	-235.2	1318.7	-219.5	-7346.3
28	107	0.0	6637.7	-235.2	1402.3	219.5	4453.2
	105	0.0	7671.0	-235.2	1318.7	-219.5	-7346.3
29	107	0.0	6637.7	-649.6	1402.3	606.3	4453.2
	105	0.0	7671.0	-649.6	1318.7	-606.3	-7346.3
30	107	0.0	6637.7	22.4	1402.3	-20.9	4453.2
	105	0.0	7671.0	22.4	1318.7	20.9	-7346.3
31	107	42793.2	6637.7	-235.2	1402.3	219.5	4453.2
	105	-42793.2	7671.0	-235.2	1318.7	-219.5	-7346.3
32	107	-42793.2	6637.7	-235.2	1402.3	219.5	4453.2
	105	42793.2	7671.0	-235.2	1318.7	-219.5	-7346.3
33	107	0.0	6409.1	0.0	1318.1	0.0	4283.8
	105	0.0	7420.1	0.0	1231.9	0.0	-7114.7
34	107	0.0	6500.5	0.0	1351.8	0.0	4351.6
	105	0.0	7520.5	0.0	1266.6	0.0	-7207.4
35	107	0.0	6409.1	0.0	1318.1	0.0	4283.8
	105	0.0	7420.1	0.0	1231.9	0.0	-7114.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
36	107	0.0	6409.1	0.0	1318.1	0.0	4283.8
	105	0.0	7420.1	0.0	1231.9	0.0	-7114.7
37	107	0.0	6409.1	-207.2	1318.1	193.4	4283.8
	105	0.0	7420.1	-207.2	1231.9	-193.4	-7114.7
38	107	0.0	6409.1	128.8	1318.1	-120.2	4283.8
	105	0.0	7420.1	128.8	1231.9	120.2	-7114.7
39	107	53491.5	6409.1	0.0	1318.1	0.0	4283.8
	105	-53491.5	7420.1	0.0	1231.9	0.0	-7114.7
40	107	-53491.5	6409.1	0.0	1318.1	0.0	4283.8
	105	53491.5	7420.1	0.0	1231.9	0.0	-7114.7
41	107	0.0	6409.1	0.0	1318.1	0.0	4283.8
	105	0.0	7420.1	0.0	1231.9	0.0	-7114.7
42	107	0.0	8934.4	0.0	1269.5	0.0	12124.5
	105	0.0	4894.8	0.0	1280.5	0.0	-813.6
43	107	0.0	8821.9	0.0	1263.2	0.0	11770.6
	105	0.0	5007.3	0.0	1286.8	0.0	-1089.5
44	107	0.0	8409.5	0.0	1239.0	0.0	10487.9
	105	0.0	5419.7	0.0	1311.0	0.0	-2116.5
45	107	0.0	8297.0	0.0	1232.7	0.0	10134.0
	105	0.0	5532.2	0.0	1317.3	0.0	-2392.5
46	107	0.0	7662.2	0.0	1333.7	0.0	8186.5
	105	0.0	6167.0	0.0	1216.3	0.0	-4000.0
47	107	0.0	6338.2	0.0	1373.9	0.0	4079.2
	105	0.0	7491.0	0.0	1176.1	0.0	-7307.1
48	107	0.0	6854.9	0.0	1283.2	0.0	5668.1
	105	0.0	6974.3	0.0	1266.8	0.0	-6002.6
49	107	0.0	5530.9	0.0	1323.4	0.0	1560.9
	105	0.0	8298.3	0.0	1226.6	0.0	-9309.7
50	107	0.0	4521.1	0.0	1403.4	0.0	-1566.4
	105	0.0	9308.1	0.0	1146.6	0.0	-11837.0
51	107	0.0	4408.7	0.0	1397.1	0.0	-1920.3
	105	0.0	9420.5	0.0	1152.9	0.0	-12113.0
52	107	0.0	3996.2	0.0	1372.9	0.0	-3203.0
	105	0.0	9833.0	0.0	1177.1	0.0	-13140.0
53	107	0.0	3883.7	0.0	1366.6	0.0	-3556.9
	105	0.0	9945.5	0.0	1183.4	0.0	-13415.9
54	107	0.0	7287.3	0.0	1312.7	0.0	7006.8
	105	0.0	6541.9	0.0	1237.3	0.0	-4919.8
55	107	0.0	5963.3	0.0	1352.9	0.0	2899.5
	105	0.0	7865.9	0.0	1197.1	0.0	-8226.9
56	107	0.0	6480.0	0.0	1262.2	0.0	4488.4
	105	0.0	7349.2	0.0	1287.8	0.0	-6922.4
57	107	0.0	5156.0	0.0	1302.4	0.0	381.1
	105	0.0	8673.2	0.0	1247.6	0.0	-10229.5
58	107	0.0	9361.2	0.0	1261.3	0.0	13449.5
	105	0.0	4468.0	0.0	1288.7	0.0	251.3
59	107	0.0	9229.4	0.0	1254.0	0.0	13034.8
	105	0.0	4599.8	0.0	1296.0	0.0	-72.1
60	107	0.0	8747.4	0.0	1225.6	0.0	11535.8
	105	0.0	5081.8	0.0	1324.4	0.0	-1272.3
61	107	0.0	8615.6	0.0	1218.3	0.0	11121.1
	105	0.0	5213.6	0.0	1331.7	0.0	-1595.7
62	107	0.0	7874.9	0.0	1336.4	0.0	8849.0
	105	0.0	5954.3	0.0	1213.6	0.0	-3471.2
63	107	0.0	6327.3	0.0	1383.4	0.0	4048.1
	105	0.0	7501.9	0.0	1166.6	0.0	-7336.8
64	107	0.0	6930.2	0.0	1277.3	0.0	5902.0
	105	0.0	6899.0	0.0	1272.7	0.0	-5814.8
65	107	0.0	5382.6	0.0	1324.3	0.0	1101.1
	105	0.0	8446.6	0.0	1225.7	0.0	-9680.3
66	107	0.0	4202.6	0.0	1417.8	0.0	-2553.5
	105	0.0	9626.6	0.0	1132.2	0.0	-12633.8
67	107	0.0	4070.8	0.0	1410.5	0.0	-2968.2
	105	0.0	9758.4	0.0	1139.5	0.0	-12957.2
68	107	0.0	3588.8	0.0	1382.1	0.0	-4467.2
	105	0.0	10240.4	0.0	1167.9	0.0	-14157.4
69	107	0.0	3457.0	0.0	1374.8	0.0	-4881.9
	105	0.0	10372.2	0.0	1175.2	0.0	-14480.8
70	107	0.0	7435.6	0.0	1311.8	0.0	7466.6
	105	0.0	6393.6	0.0	1238.2	0.0	-4549.2
71	107	0.0	5888.0	0.0	1358.8	0.0	2665.7
	105	0.0	7941.2	0.0	1191.2	0.0	-8414.7
72	107	0.0	6490.8	0.0	1252.7	0.0	4519.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	105	0.0	7338.4	0.0	1297.3	0.0	-6892.7
73	107	0.0	4943.2	0.0	1299.7	0.0	-281.4
	105	0.0	8886.0	0.0	1250.3	0.0	-10758.2
1	108	0.0	14115.8	0.0	-120.3	0.0	6514.4
	109	0.0	18048.1	0.0	120.3	0.0	-17387.2
2	108	0.0	13555.2	0.0	-90.2	0.0	5539.3
	109	0.0	17675.5	0.0	90.2	0.0	-16931.9
3	108	0.0	13137.3	0.0	-87.2	0.0	5324.8
	109	0.0	17160.2	0.0	87.2	0.0	-16448.0
4	108	0.0	13137.3	0.0	-87.2	0.0	5324.8
	109	0.0	17160.2	0.0	87.2	0.0	-16448.0
5	108	0.0	13137.3	0.0	-87.2	0.0	5324.8
	109	0.0	17160.2	0.0	87.2	0.0	-16448.0
6	108	0.0	13137.3	0.0	-87.2	0.0	5324.8
	109	0.0	17160.2	0.0	87.2	0.0	-16448.0
7	108	64189.8	13137.3	0.0	-87.2	0.0	5324.8
	109	-64189.8	17160.2	0.0	87.2	0.0	-16448.0
8	108	-64189.8	13137.3	0.0	-87.2	0.0	5324.8
	109	64189.8	17160.2	0.0	87.2	0.0	-16448.0
9	108	0.0	7402.8	0.0	-11.3	0.0	-553.1
	109	0.0	12505.2	0.0	11.3	0.0	-13694.5
10	108	0.0	7373.2	0.0	-52.7	0.0	-503.5
	109	0.0	12534.8	0.0	52.7	0.0	-13769.5
11	108	0.0	7417.0	0.0	-89.5	0.0	-369.6
	109	0.0	12491.0	0.0	89.5	0.0	-13659.1
12	108	0.0	7387.4	0.0	-130.8	0.0	-320.0
	109	0.0	12520.6	0.0	130.8	0.0	-13734.1
13	108	0.0	8319.6	0.0	59.4	0.0	2030.8
	109	0.0	11588.4	0.0	-59.4	0.0	-11533.8
14	108	0.0	9052.1	0.0	67.0	0.0	4357.8
	109	0.0	10855.9	0.0	-67.0	0.0	-9809.9
15	108	0.0	8278.4	0.0	-45.8	0.0	2360.4
	109	0.0	11629.6	0.0	45.8	0.0	-11622.1
16	108	0.0	9011.0	0.0	-38.1	0.0	4687.3
	109	0.0	10897.0	0.0	38.1	0.0	-9898.1
17	108	0.0	9844.6	0.0	14.2	0.0	7203.5
	109	0.0	10063.4	0.0	-14.2	0.0	-7948.0
18	108	0.0	9815.0	0.0	-27.2	0.0	7253.1
	109	0.0	10093.0	0.0	27.2	0.0	-8023.0
19	108	0.0	9858.7	0.0	-64.0	0.0	7387.0
	109	0.0	10049.3	0.0	64.0	0.0	-7912.6
20	108	0.0	9829.1	0.0	-105.4	0.0	7436.6
	109	0.0	10078.9	0.0	105.4	0.0	-7987.6
21	108	0.0	8221.0	0.0	-78.5	0.0	2196.2
	109	0.0	11687.0	0.0	78.5	0.0	-11783.9
22	108	0.0	8953.5	0.0	-70.9	0.0	4523.1
	109	0.0	10954.5	0.0	70.9	0.0	-10060.0
23	108	0.0	8179.8	0.0	-183.7	0.0	2525.7
	109	0.0	11728.2	0.0	183.7	0.0	-11872.2
24	108	0.0	8912.4	0.0	-176.1	0.0	4852.7
	109	0.0	10995.6	0.0	176.1	0.0	-10148.3
25	108	0.0	9546.9	0.0	-82.3	0.0	4377.8
	109	0.0	12227.5	0.0	82.3	0.0	-11789.8
26	108	0.0	9173.1	0.0	-62.2	0.0	3727.7
	109	0.0	11979.1	0.0	62.2	0.0	-11486.2
27	108	0.0	8894.6	0.0	-60.3	0.0	3584.7
	109	0.0	11635.6	0.0	60.3	0.0	-11163.6
28	108	0.0	8894.6	0.0	-60.3	0.0	3584.7
	109	0.0	11635.6	0.0	60.3	0.0	-11163.6
29	108	0.0	8894.6	0.0	-60.3	0.0	3584.7
	109	0.0	11635.6	0.0	60.3	0.0	-11163.6
30	108	0.0	8894.6	0.0	-60.3	0.0	3584.7
	109	0.0	11635.6	0.0	60.3	0.0	-11163.6
31	108	42793.2	8894.6	0.0	-60.3	0.0	3584.7
	109	-42793.2	11635.6	0.0	60.3	0.0	-11163.6
32	108	-42793.2	8894.6	0.0	-60.3	0.0	3584.7
	109	42793.2	11635.6	0.0	60.3	0.0	-11163.6
33	108	0.0	8616.0	0.0	-58.3	0.0	3441.8
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
34	108	0.0	8727.4	0.0	-59.1	0.0	3498.9
	109	0.0	11429.4	0.0	59.1	0.0	-10970.1
35	108	0.0	8616.0	0.0	-58.3	0.0	3441.8

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
36	108	0.0	8616.0	0.0	-58.3	0.0	3441.8
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
37	108	0.0	8616.0	0.0	-58.3	0.0	3441.8
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
38	108	0.0	8616.0	0.0	-58.3	0.0	3441.8
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
39	108	53491.5	8616.0	0.0	-58.3	0.0	3441.8
	109	-53491.5	11292.0	0.0	58.3	0.0	-10841.0
40	108	-53491.5	8616.0	0.0	-58.3	0.0	3441.8
	109	53491.5	11292.0	0.0	58.3	0.0	-10841.0
41	108	0.0	8616.0	0.0	-58.3	0.0	3441.8
	109	0.0	11292.0	0.0	58.3	0.0	-10841.0
42	108	0.0	7523.1	0.0	-16.2	0.0	-156.5
	109	0.0	12384.9	0.0	16.2	0.0	-13411.4
43	108	0.0	7496.6	0.0	-53.2	0.0	-111.8
	109	0.0	12411.4	0.0	53.2	0.0	-13478.9
44	108	0.0	7536.1	0.0	-86.2	0.0	9.0
	109	0.0	12371.9	0.0	86.2	0.0	-13379.1
45	108	0.0	7509.5	0.0	-123.3	0.0	53.6
	109	0.0	12398.5	0.0	123.3	0.0	-13446.5
46	108	0.0	8348.8	0.0	47.4	0.0	2171.4
	109	0.0	11559.2	0.0	-47.4	0.0	-11465.5
47	108	0.0	9008.6	0.0	54.2	0.0	4267.3
	109	0.0	10899.4	0.0	-54.2	0.0	-9912.7
48	108	0.0	8311.9	0.0	-47.3	0.0	2467.5
	109	0.0	11596.1	0.0	47.3	0.0	-11544.6
49	108	0.0	8971.7	0.0	-40.5	0.0	4563.4
	109	0.0	10936.3	0.0	40.5	0.0	-9991.8
50	108	0.0	9722.5	0.0	6.6	0.0	6829.9
	109	0.0	10185.5	0.0	-6.6	0.0	-8235.5
51	108	0.0	9695.9	0.0	-30.5	0.0	6874.5
	109	0.0	10212.1	0.0	30.5	0.0	-8303.0
52	108	0.0	9735.4	0.0	-63.4	0.0	6995.3
	109	0.0	10172.6	0.0	63.4	0.0	-8203.2
53	108	0.0	9708.8	0.0	-100.5	0.0	7040.0
	109	0.0	10199.2	0.0	100.5	0.0	-8270.7
54	108	0.0	8260.2	0.0	-76.2	0.0	2320.1
	109	0.0	11647.8	0.0	76.2	0.0	-11690.3
55	108	0.0	8920.0	0.0	-69.3	0.0	4416.0
	109	0.0	10988.0	0.0	69.3	0.0	-10137.5
56	108	0.0	8223.3	0.0	-170.9	0.0	2616.2
	109	0.0	11684.7	0.0	170.9	0.0	-11769.4
57	108	0.0	8883.1	0.0	-164.0	0.0	4712.1
	109	0.0	11024.9	0.0	164.0	0.0	-10216.6
58	108	0.0	7338.6	0.0	-9.0	0.0	-764.1
	109	0.0	12569.4	0.0	9.0	0.0	-13845.4
59	108	0.0	7307.5	0.0	-52.4	0.0	-711.9
	109	0.0	12600.5	0.0	52.4	0.0	-13924.3
60	108	0.0	7353.7	0.0	-90.9	0.0	-570.6
	109	0.0	12554.3	0.0	90.9	0.0	-13807.7
61	108	0.0	7322.6	0.0	-134.3	0.0	-518.5
	109	0.0	12585.4	0.0	134.3	0.0	-13886.6
62	108	0.0	8303.8	0.0	65.3	0.0	1956.7
	109	0.0	11604.2	0.0	-65.3	0.0	-11570.8
63	108	0.0	9075.0	0.0	73.3	0.0	4406.6
	109	0.0	10833.0	0.0	-73.3	0.0	-9755.9
64	108	0.0	8260.6	0.0	-45.5	0.0	2303.0
	109	0.0	11647.4	0.0	45.5	0.0	-11663.4
65	108	0.0	9031.8	0.0	-37.5	0.0	4752.9
	109	0.0	10876.2	0.0	37.5	0.0	-9848.4
66	108	0.0	9909.3	0.0	17.6	0.0	7402.0
	109	0.0	9998.7	0.0	-17.6	0.0	-7795.5
67	108	0.0	9878.2	0.0	-25.7	0.0	7454.1
	109	0.0	10029.8	0.0	25.7	0.0	-7874.4
68	108	0.0	9924.4	0.0	-64.3	0.0	7595.4
	109	0.0	9983.6	0.0	64.3	0.0	-7757.8
69	108	0.0	9893.3	0.0	-107.7	0.0	7647.6
	109	0.0	10014.7	0.0	107.7	0.0	-7836.7
70	108	0.0	8200.2	0.0	-79.2	0.0	2130.7
	109	0.0	11707.8	0.0	79.2	0.0	-11833.7
71	108	0.0	8971.4	0.0	-71.2	0.0	4580.5
	109	0.0	10936.6	0.0	71.2	0.0	-10018.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
72	108	0.0	8157.0	0.0	-190.0	0.0	2477.0
	109	0.0	11751.0	0.0	190.0	0.0	-11926.2
73	108	0.0	8928.2	0.0	-182.0	0.0	4926.8
	109	0.0	10979.8	0.0	182.0	0.0	-10111.2
1	109	0.0	15968.1	0.0	-44.7	0.0	16363.5
	110	0.0	14392.7	0.0	44.7	0.0	-12251.6
2	109	0.0	15508.0	0.0	-30.2	0.0	15903.2
	110	0.0	13971.9	0.0	30.2	0.0	-11894.0
3	109	0.0	15047.5	0.0	-28.6	0.0	15439.1
	110	0.0	13551.5	0.0	28.6	0.0	-11534.6
4	109	0.0	15047.5	0.0	-28.6	0.0	15439.1
	110	0.0	13551.5	0.0	28.6	0.0	-11534.6
5	109	0.0	15047.5	0.0	-28.6	0.0	15439.1
	110	0.0	13551.5	0.0	28.6	0.0	-11534.6
6	109	0.0	15047.5	0.0	-28.6	0.0	15439.1
	110	0.0	13551.5	0.0	28.6	0.0	-11534.6
7	109	64189.8	15047.5	0.0	-28.6	0.0	15439.1
	110	-64189.8	13551.5	0.0	28.6	0.0	-11534.6
8	109	-64189.8	15047.5	0.0	-28.6	0.0	15439.1
	110	64189.8	13551.5	0.0	28.6	0.0	-11534.6
9	109	0.0	8833.0	0.0	27.1	0.0	7396.8
	110	0.0	9959.0	0.0	-27.1	0.0	-10336.3
10	109	0.0	8869.5	0.0	5.7	0.0	7481.8
	110	0.0	9922.5	0.0	-5.7	0.0	-10229.9
11	109	0.0	8863.4	0.0	-80.8	0.0	7481.4
	110	0.0	9928.6	0.0	80.8	0.0	-10261.7
12	109	0.0	8900.0	0.0	-102.2	0.0	7566.4
	110	0.0	9892.0	0.0	102.2	0.0	-10155.2
13	109	0.0	9513.7	0.0	90.0	0.0	9180.4
	110	0.0	9278.3	0.0	-90.0	0.0	-8567.7
14	109	0.0	10135.2	0.0	100.6	0.0	10801.1
	110	0.0	8656.8	0.0	-100.6	0.0	-6944.3
15	109	0.0	9547.5	0.0	-68.8	0.0	9281.0
	110	0.0	9244.5	0.0	68.8	0.0	-8490.7
16	109	0.0	10169.0	0.0	-58.1	0.0	10901.7
	110	0.0	8623.0	0.0	58.1	0.0	-6867.3
17	109	0.0	10904.6	0.0	62.7	0.0	12799.2
	110	0.0	7887.4	0.0	-62.7	0.0	-4924.9
18	109	0.0	10941.1	0.0	41.3	0.0	12884.2
	110	0.0	7850.9	0.0	-41.3	0.0	-4818.4
19	109	0.0	10935.0	0.0	-45.2	0.0	12883.7
	110	0.0	7857.0	0.0	45.2	0.0	-4850.3
20	109	0.0	10971.6	0.0	-66.6	0.0	12968.8
	110	0.0	7820.4	0.0	66.6	0.0	-4743.8
21	109	0.0	9635.5	0.0	18.6	0.0	9463.9
	110	0.0	9156.5	0.0	-18.6	0.0	-8212.8
22	109	0.0	10257.0	0.0	29.3	0.0	11084.6
	110	0.0	8535.0	0.0	-29.3	0.0	-6589.4
23	109	0.0	9669.3	0.0	-140.1	0.0	9564.5
	110	0.0	9122.7	0.0	140.1	0.0	-8135.9
24	109	0.0	10290.8	0.0	-129.5	0.0	11185.2
	110	0.0	8501.2	0.0	129.5	0.0	-6512.4
25	109	0.0	10823.0	0.0	-31.6	0.0	11108.4
	110	0.0	9730.8	0.0	31.6	0.0	-8257.7
26	109	0.0	10516.3	0.0	-21.9	0.0	10801.6
	110	0.0	9450.2	0.0	21.9	0.0	-8019.3
27	109	0.0	10209.3	0.0	-20.8	0.0	10492.2
	110	0.0	9170.0	0.0	20.8	0.0	-7779.7
28	109	0.0	10209.3	0.0	-20.8	0.0	10492.2
	110	0.0	9170.0	0.0	20.8	0.0	-7779.7
29	109	0.0	10209.3	0.0	-20.8	0.0	10492.2
	110	0.0	9170.0	0.0	20.8	0.0	-7779.7
30	109	0.0	10209.3	0.0	-20.8	0.0	10492.2
	110	0.0	9170.0	0.0	20.8	0.0	-7779.7
31	109	42793.2	10209.3	0.0	-20.8	0.0	10492.2
	110	-42793.2	9170.0	0.0	20.8	0.0	-7779.7
32	109	-42793.2	10209.3	0.0	-20.8	0.0	10492.2
	110	42793.2	9170.0	0.0	20.8	0.0	-7779.7
33	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
34	109	0.0	10025.1	0.0	-20.2	0.0	10306.5
	110	0.0	9001.8	0.0	20.2	0.0	-7635.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
35	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
36	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
37	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
38	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
39	109	53491.5	9902.3	0.0	-19.8	0.0	10182.8
	110	-53491.5	8889.7	0.0	19.8	0.0	-7540.1
40	109	-53491.5	9902.3	0.0	-19.8	0.0	10182.8
	110	53491.5	8889.7	0.0	19.8	0.0	-7540.1
41	109	0.0	9902.3	0.0	-19.8	0.0	10182.8
	110	0.0	8889.7	0.0	19.8	0.0	-7540.1
42	109	0.0	8939.1	0.0	22.1	0.0	7673.3
	110	0.0	9852.9	0.0	-22.1	0.0	-10058.8
43	109	0.0	8972.0	0.0	3.0	0.0	7749.8
	110	0.0	9820.0	0.0	-3.0	0.0	-9963.0
44	109	0.0	8966.6	0.0	-74.3	0.0	7749.8
	110	0.0	9825.4	0.0	74.3	0.0	-9991.3
45	109	0.0	8999.5	0.0	-93.4	0.0	7826.3
	110	0.0	9792.5	0.0	93.4	0.0	-9895.4
46	109	0.0	9552.3	0.0	78.3	0.0	9280.0
	110	0.0	9239.7	0.0	-78.3	0.0	-8465.7
47	109	0.0	10112.1	0.0	87.8	0.0	10739.8
	110	0.0	8679.9	0.0	-87.8	0.0	-7003.5
48	109	0.0	9582.8	0.0	-63.5	0.0	9370.7
	110	0.0	9209.2	0.0	63.5	0.0	-8396.1
49	109	0.0	10142.6	0.0	-54.0	0.0	10830.5
	110	0.0	8649.4	0.0	54.0	0.0	-6933.9
50	109	0.0	10805.0	0.0	53.9	0.0	12539.2
	110	0.0	7987.0	0.0	-53.9	0.0	-5184.7
51	109	0.0	10837.9	0.0	34.8	0.0	12615.8
	110	0.0	7954.1	0.0	-34.8	0.0	-5088.9
52	109	0.0	10832.5	0.0	-42.5	0.0	12615.8
	110	0.0	7959.5	0.0	42.5	0.0	-5117.2
53	109	0.0	10865.4	0.0	-61.6	0.0	12692.3
	110	0.0	7926.6	0.0	61.6	0.0	-5021.3
54	109	0.0	9661.9	0.0	14.5	0.0	9535.0
	110	0.0	9130.1	0.0	-14.5	0.0	-8146.2
55	109	0.0	10221.7	0.0	24.0	0.0	10994.8
	110	0.0	8570.3	0.0	-24.0	0.0	-6684.0
56	109	0.0	9692.5	0.0	-127.4	0.0	9625.8
	110	0.0	9099.5	0.0	127.4	0.0	-8076.7
57	109	0.0	10252.2	0.0	-117.8	0.0	11085.6
	110	0.0	8539.8	0.0	117.8	0.0	-6614.4
58	109	0.0	8776.5	0.0	29.2	0.0	7249.5
	110	0.0	10015.5	0.0	-29.2	0.0	-10484.1
59	109	0.0	8814.9	0.0	6.8	0.0	7339.0
	110	0.0	9977.1	0.0	-6.8	0.0	-10372.1
60	109	0.0	8808.6	0.0	-83.5	0.0	7338.9
	110	0.0	9983.4	0.0	83.5	0.0	-10405.2
61	109	0.0	8847.1	0.0	-106.0	0.0	7428.4
	110	0.0	9944.9	0.0	106.0	0.0	-10293.2
62	109	0.0	9493.2	0.0	95.0	0.0	9127.5
	110	0.0	9298.8	0.0	-95.0	0.0	-8622.0
63	109	0.0	10147.5	0.0	106.2	0.0	10833.8
	110	0.0	8644.5	0.0	-106.2	0.0	-6912.8
64	109	0.0	9528.9	0.0	-70.9	0.0	9233.6
	110	0.0	9263.1	0.0	70.9	0.0	-8540.7
65	109	0.0	10183.2	0.0	-59.7	0.0	10939.9
	110	0.0	8608.8	0.0	59.7	0.0	-6831.6
66	109	0.0	10957.5	0.0	66.4	0.0	12937.2
	110	0.0	7834.5	0.0	-66.4	0.0	-4786.9
67	109	0.0	10995.9	0.0	44.0	0.0	13026.6
	110	0.0	7796.1	0.0	-44.0	0.0	-4674.9
68	109	0.0	10989.6	0.0	-46.3	0.0	13026.6
	110	0.0	7802.4	0.0	46.3	0.0	-4708.0
69	109	0.0	11028.1	0.0	-68.7	0.0	13116.0
	110	0.0	7763.9	0.0	68.7	0.0	-4596.0
70	109	0.0	9621.4	0.0	20.2	0.0	9425.7
	110	0.0	9170.6	0.0	-20.2	0.0	-8248.6
71	109	0.0	10275.7	0.0	31.4	0.0	11132.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	110	0.0	8516.3	0.0	-31.4	0.0	-6539.4
72	109	0.0	9657.0	0.0	-145.7	0.0	9531.8
	110	0.0	9135.0	0.0	145.7	0.0	-8167.3
73	109	0.0	10311.3	0.0	-134.5	0.0	11238.1
	110	0.0	8480.7	0.0	134.5	0.0	-6458.1
1	110	0.0	15716.6	0.0	32.1	0.0	13030.1
	112	0.0	17726.9	0.0	-32.1	0.0	-18809.6
2	110	0.0	15256.9	0.0	20.2	0.0	12665.6
	112	0.0	17216.2	0.0	-20.2	0.0	-18298.8
3	110	0.0	14796.4	0.0	19.0	0.0	12280.1
	112	0.0	16706.4	0.0	-19.0	0.0	-17771.4
4	110	0.0	14796.4	0.0	19.0	0.0	12280.1
	112	0.0	16706.4	0.0	-19.0	0.0	-17771.4
5	110	0.0	14796.4	0.0	19.0	0.0	12280.1
	112	0.0	16706.4	0.0	-19.0	0.0	-17771.4
6	110	0.0	14796.4	0.0	19.0	0.0	12280.1
	112	0.0	16706.4	0.0	-19.0	0.0	-17771.4
7	110	64189.8	14796.4	0.0	19.0	0.0	12280.1
	112	-64189.8	16706.4	0.0	-19.0	0.0	-17771.4
8	110	-64189.8	14796.4	0.0	19.0	0.0	12280.1
	112	64189.8	16706.4	0.0	-19.0	0.0	-17771.4
9	110	0.0	8754.0	0.0	68.4	0.0	5278.0
	112	0.0	11946.0	0.0	-68.4	0.0	-14455.1
10	110	0.0	8713.3	0.0	52.1	0.0	5160.2
	112	0.0	11986.7	0.0	-52.1	0.0	-14571.4
11	110	0.0	8772.8	0.0	-45.9	0.0	5342.0
	112	0.0	11927.2	0.0	45.9	0.0	-14410.8
12	110	0.0	8732.1	0.0	-62.2	0.0	5224.1
	112	0.0	11967.9	0.0	62.2	0.0	-14527.0
13	110	0.0	9493.6	0.0	120.7	0.0	7405.7
	112	0.0	11206.4	0.0	-120.7	0.0	-12329.6
14	110	0.0	10073.6	0.0	126.7	0.0	9074.4
	112	0.0	10626.4	0.0	-126.7	0.0	-10663.5
15	110	0.0	9481.4	0.0	-46.3	0.0	7383.0
	112	0.0	11218.6	0.0	46.3	0.0	-12377.4
16	110	0.0	10061.4	0.0	-40.4	0.0	9051.7
	112	0.0	10638.6	0.0	40.4	0.0	-10711.3
17	110	0.0	10687.2	0.0	88.1	0.0	10840.5
	112	0.0	10012.8	0.0	-88.1	0.0	-8901.3
18	110	0.0	10646.5	0.0	71.8	0.0	10722.6
	112	0.0	10053.5	0.0	-71.8	0.0	-9017.6
19	110	0.0	10706.1	0.0	-26.1	0.0	10904.4
	112	0.0	9993.9	0.0	26.1	0.0	-8857.0
20	110	0.0	10665.4	0.0	-42.4	0.0	10786.6
	112	0.0	10034.6	0.0	42.4	0.0	-8973.2
21	110	0.0	9358.0	0.0	66.4	0.0	7012.9
	112	0.0	11342.0	0.0	-66.4	0.0	-12717.1
22	110	0.0	9938.0	0.0	72.3	0.0	8681.6
	112	0.0	10762.0	0.0	-72.3	0.0	-11050.9
23	110	0.0	9345.8	0.0	-100.7	0.0	6990.2
	112	0.0	11354.2	0.0	100.7	0.0	-12764.9
24	110	0.0	9925.7	0.0	-94.8	0.0	8658.9
	112	0.0	10774.2	0.0	94.8	0.0	-11098.7
25	110	0.0	10630.1	0.0	22.5	0.0	8789.3
	112	0.0	12010.5	0.0	-22.5	0.0	-12757.9
26	110	0.0	10323.7	0.0	14.5	0.0	8546.4
	112	0.0	11670.1	0.0	-14.5	0.0	-12417.4
27	110	0.0	10016.7	0.0	13.7	0.0	8289.3
	112	0.0	11330.2	0.0	-13.7	0.0	-12065.8
28	110	0.0	10016.7	0.0	13.7	0.0	8289.3
	112	0.0	11330.2	0.0	-13.7	0.0	-12065.8
29	110	0.0	10016.7	0.0	13.7	0.0	8289.3
	112	0.0	11330.2	0.0	-13.7	0.0	-12065.8
30	110	0.0	10016.7	0.0	13.7	0.0	8289.3
	112	0.0	11330.2	0.0	-13.7	0.0	-12065.8
31	110	42793.2	10016.7	0.0	13.7	0.0	8289.3
	112	-42793.2	11330.2	0.0	-13.7	0.0	-12065.8
32	110	-42793.2	10016.7	0.0	13.7	0.0	8289.3
	112	42793.2	11330.2	0.0	-13.7	0.0	-12065.8
33	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
34	110	0.0	9832.5	0.0	13.3	0.0	8135.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	112	0.0	11126.3	0.0	-13.3	0.0	-11854.8
35	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
36	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
37	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
38	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
39	110	53491.5	9709.7	0.0	13.0	0.0	8032.3
	112	-53491.5	10990.3	0.0	-13.0	0.0	-11714.2
40	110	-53491.5	9709.7	0.0	13.0	0.0	8032.3
	112	53491.5	10990.3	0.0	-13.0	0.0	-11714.2
41	110	0.0	9709.7	0.0	13.0	0.0	8032.3
	112	0.0	10990.3	0.0	-13.0	0.0	-11714.2
42	110	0.0	8848.7	0.0	62.6	0.0	5551.1
	112	0.0	11851.3	0.0	-62.6	0.0	-14183.3
43	110	0.0	8812.2	0.0	48.1	0.0	5445.2
	112	0.0	11887.8	0.0	-48.1	0.0	-14287.8
44	110	0.0	8865.9	0.0	-39.5	0.0	5609.3
	112	0.0	11834.1	0.0	39.5	0.0	-14142.9
45	110	0.0	8829.3	0.0	-54.0	0.0	5503.4
	112	0.0	11870.7	0.0	54.0	0.0	-14247.5
46	110	0.0	9514.8	0.0	109.1	0.0	7467.2
	112	0.0	11185.2	0.0	-109.1	0.0	-12269.0
47	110	0.0	10037.2	0.0	114.3	0.0	8970.2
	112	0.0	10662.8	0.0	-114.3	0.0	-10768.3
48	110	0.0	9504.1	0.0	-40.0	0.0	7447.5
	112	0.0	11195.9	0.0	40.0	0.0	-12311.5
49	110	0.0	10026.5	0.0	-34.8	0.0	8950.6
	112	0.0	10673.5	0.0	34.8	0.0	-10810.8
50	110	0.0	10590.0	0.0	80.0	0.0	10561.2
	112	0.0	10110.0	0.0	-80.0	0.0	-9180.9
51	110	0.0	10553.4	0.0	65.5	0.0	10455.3
	112	0.0	10146.6	0.0	-65.5	0.0	-9285.5
52	110	0.0	10607.2	0.0	-22.1	0.0	10619.4
	112	0.0	10092.8	0.0	22.1	0.0	-9140.5
53	110	0.0	10570.6	0.0	-36.6	0.0	10513.5
	112	0.0	10129.4	0.0	36.6	0.0	-9245.1
54	110	0.0	9392.9	0.0	60.8	0.0	7114.0
	112	0.0	11307.1	0.0	-60.8	0.0	-12617.6
55	110	0.0	9915.3	0.0	66.0	0.0	8617.1
	112	0.0	10784.7	0.0	-66.0	0.0	-11116.9
56	110	0.0	9382.1	0.0	-88.4	0.0	7094.4
	112	0.0	11317.9	0.0	88.4	0.0	-12660.1
57	110	0.0	9904.5	0.0	-83.1	0.0	8597.4
	112	0.0	10795.5	0.0	83.1	0.0	-11159.4
58	110	0.0	8703.4	0.0	71.0	0.0	5132.2
	112	0.0	11996.6	0.0	-71.0	0.0	-14600.2
59	110	0.0	8660.6	0.0	54.0	0.0	5008.3
	112	0.0	12039.4	0.0	-54.0	0.0	-14722.4
60	110	0.0	8723.4	0.0	-48.4	0.0	5200.1
	112	0.0	11976.6	0.0	48.4	0.0	-14553.0
61	110	0.0	8680.6	0.0	-65.4	0.0	5076.3
	112	0.0	12019.4	0.0	65.4	0.0	-14675.3
62	110	0.0	9482.0	0.0	125.6	0.0	7371.9
	112	0.0	11218.0	0.0	-125.6	0.0	-12362.6
63	110	0.0	10092.6	0.0	131.7	0.0	9128.7
	112	0.0	10607.4	0.0	-131.7	0.0	-10608.5
64	110	0.0	9469.4	0.0	-49.0	0.0	7348.8
	112	0.0	11230.6	0.0	49.0	0.0	-12412.4
65	110	0.0	10080.0	0.0	-42.9	0.0	9105.6
	112	0.0	10620.0	0.0	42.9	0.0	-10658.3
66	110	0.0	10738.7	0.0	91.4	0.0	10988.3
	112	0.0	9961.3	0.0	-91.4	0.0	-8753.1
67	110	0.0	10695.9	0.0	74.4	0.0	10864.4
	112	0.0	10004.1	0.0	-74.4	0.0	-8875.4
68	110	0.0	10758.7	0.0	-28.0	0.0	11056.3
	112	0.0	9941.3	0.0	28.0	0.0	-8706.0
69	110	0.0	10716.0	0.0	-45.0	0.0	10932.4
	112	0.0	9984.0	0.0	45.0	0.0	-8828.2
70	110	0.0	9339.4	0.0	68.9	0.0	6959.0
	112	0.0	11360.6	0.0	-68.9	0.0	-12770.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
71	110	0.0	9950.0	0.0	75.0	0.0	8715.8
	112	0.0	10750.0	0.0	-75.0	0.0	-11016.0
72	110	0.0	9326.8	0.0	-105.7	0.0	6935.9
	112	0.0	11373.2	0.0	105.7	0.0	-12819.9
73	110	0.0	9937.4	0.0	-99.6	0.0	8692.7
	112	0.0	10762.6	0.0	99.6	0.0	-11065.8
1	112	0.0	18551.5	0.0	106.9	0.0	19254.2
	113	0.0	14019.5	0.0	-106.9	0.0	-6564.8
2	112	0.0	18170.9	0.0	74.3	0.0	18760.6
	113	0.0	13455.1	0.0	-74.3	0.0	-5556.2
3	112	0.0	17642.8	0.0	71.6	0.0	18229.8
	113	0.0	13038.2	0.0	-71.6	0.0	-5337.2
4	112	0.0	17642.8	0.0	71.6	0.0	18229.8
	113	0.0	13038.2	0.0	-71.6	0.0	-5337.2
5	112	0.0	17642.8	0.0	71.6	0.0	18229.8
	113	0.0	13038.2	0.0	-71.6	0.0	-5337.2
6	112	0.0	17642.8	0.0	71.6	0.0	18229.8
	113	0.0	13038.2	0.0	-71.6	0.0	-5337.2
7	112	64189.8	17642.8	0.0	71.6	0.0	18229.8
	113	-64189.8	13038.2	0.0	-71.6	0.0	-5337.2
8	112	-64189.8	17642.8	0.0	71.6	0.0	18229.8
	113	64189.8	13038.2	0.0	-71.6	0.0	-5337.2
9	112	0.0	10342.4	0.0	51.6	0.0	9114.8
	113	0.0	9817.6	0.0	-51.6	0.0	-7646.0
10	112	0.0	10384.4	0.0	47.6	0.0	9227.7
	113	0.0	9775.6	0.0	-47.6	0.0	-7521.2
11	112	0.0	10401.1	0.0	-30.0	0.0	9231.4
	113	0.0	9758.9	0.0	30.0	0.0	-7435.3
12	112	0.0	10443.1	0.0	-34.0	0.0	9344.3
	113	0.0	9716.9	0.0	34.0	0.0	-7310.5
13	112	0.0	11138.5	0.0	108.4	0.0	10921.9
	113	0.0	9021.5	0.0	-108.4	0.0	-4996.4
14	112	0.0	11867.9	0.0	131.7	0.0	12590.8
	113	0.0	8292.1	0.0	-131.7	0.0	-2580.5
15	112	0.0	11209.1	0.0	-23.0	0.0	11054.8
	113	0.0	8950.9	0.0	23.0	0.0	-4739.1
16	112	0.0	11938.5	0.0	0.3	0.0	12723.6
	113	0.0	8221.5	0.0	-0.3	0.0	-2323.2
17	112	0.0	12773.8	0.0	129.4	0.0	14677.5
	113	0.0	7386.2	0.0	-129.4	0.0	407.0
18	112	0.0	12815.7	0.0	125.5	0.0	14790.4
	113	0.0	7344.3	0.0	-125.5	0.0	531.9
19	112	0.0	12832.5	0.0	47.8	0.0	14794.2
	113	0.0	7327.5	0.0	-47.8	0.0	617.7
20	112	0.0	12874.5	0.0	43.8	0.0	14907.1
	113	0.0	7285.5	0.0	-43.8	0.0	742.6
21	112	0.0	11278.4	0.0	95.1	0.0	11298.3
	113	0.0	8881.6	0.0	-95.1	0.0	-4580.3
22	112	0.0	12007.8	0.0	118.4	0.0	12967.1
	113	0.0	8152.2	0.0	-118.4	0.0	-2164.3
23	112	0.0	11348.9	0.0	-36.3	0.0	11431.1
	113	0.0	8811.1	0.0	36.3	0.0	-4322.9
24	112	0.0	12078.4	0.0	-12.9	0.0	13099.9
	113	0.0	8081.6	0.0	12.9	0.0	-1907.0
25	112	0.0	12566.4	0.0	73.0	0.0	13047.7
	113	0.0	9483.7	0.0	-73.0	0.0	-4416.2
26	112	0.0	12312.7	0.0	51.3	0.0	12718.7
	113	0.0	9107.3	0.0	-51.3	0.0	-3743.8
27	112	0.0	11960.6	0.0	49.5	0.0	12364.8
	113	0.0	8829.5	0.0	-49.5	0.0	-3597.7
28	112	0.0	11960.6	0.0	49.5	0.0	12364.8
	113	0.0	8829.5	0.0	-49.5	0.0	-3597.7
29	112	0.0	11960.6	0.0	49.5	0.0	12364.8
	113	0.0	8829.5	0.0	-49.5	0.0	-3597.7
30	112	0.0	11960.6	0.0	49.5	0.0	12364.8
	113	0.0	8829.5	0.0	-49.5	0.0	-3597.7
31	112	42793.2	11960.6	0.0	49.5	0.0	12364.8
	113	-42793.2	8829.5	0.0	-49.5	0.0	-3597.7
32	112	-42793.2	11960.6	0.0	49.5	0.0	12364.8
	113	42793.2	8829.5	0.0	-49.5	0.0	-3597.7
33	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
34	112	0.0	11749.3	0.0	48.4	0.0	12152.5
	113	0.0	8662.7	0.0	-48.4	0.0	-3510.1
35	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7
36	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7
37	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7
38	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7
39	112	53491.5	11608.4	0.0	47.7	0.0	12010.9
	113	-53491.5	8551.6	0.0	-47.7	0.0	-3451.7
40	112	-53491.5	11608.4	0.0	47.7	0.0	12010.9
	113	53491.5	8551.6	0.0	-47.7	0.0	-3451.7
41	112	0.0	11608.4	0.0	47.7	0.0	12010.9
	113	0.0	8551.6	0.0	-47.7	0.0	-3451.7
42	112	0.0	10468.1	0.0	51.1	0.0	9402.3
	113	0.0	9691.9	0.0	-51.1	0.0	-7229.5
43	112	0.0	10505.8	0.0	47.8	0.0	9503.8
	113	0.0	9654.2	0.0	-47.8	0.0	-7117.6
44	112	0.0	10521.2	0.0	-22.1	0.0	9507.7
	113	0.0	9638.8	0.0	22.1	0.0	-7039.1
45	112	0.0	10558.8	0.0	-25.5	0.0	9609.3
	113	0.0	9601.2	0.0	25.5	0.0	-6927.2
46	112	0.0	11185.3	0.0	101.5	0.0	11030.2
	113	0.0	8974.7	0.0	-101.5	0.0	-4842.2
47	112	0.0	11842.3	0.0	122.4	0.0	12533.3
	113	0.0	8317.7	0.0	-122.4	0.0	-2666.2
48	112	0.0	11249.0	0.0	-15.9	0.0	11150.1
	113	0.0	8911.0	0.0	15.9	0.0	-4610.3
49	112	0.0	11905.9	0.0	5.1	0.0	12653.2
	113	0.0	8254.1	0.0	-5.1	0.0	-2434.3
50	112	0.0	12658.0	0.0	120.9	0.0	14412.6
	113	0.0	7502.0	0.0	-120.9	0.0	23.8
51	112	0.0	12695.7	0.0	117.6	0.0	14514.1
	113	0.0	7464.3	0.0	-117.6	0.0	135.7
52	112	0.0	12711.1	0.0	47.7	0.0	14518.1
	113	0.0	7448.9	0.0	-47.7	0.0	214.2
53	112	0.0	12748.8	0.0	44.3	0.0	14619.6
	113	0.0	7411.2	0.0	-44.3	0.0	326.1
54	112	0.0	11310.9	0.0	90.3	0.0	11368.7
	113	0.0	8849.1	0.0	-90.3	0.0	-4469.1
55	112	0.0	11967.9	0.0	111.3	0.0	12871.8
	113	0.0	8192.1	0.0	-111.3	0.0	-2293.1
56	112	0.0	11374.5	0.0	-27.0	0.0	11488.5
	113	0.0	8785.5	0.0	27.0	0.0	-4237.2
57	112	0.0	12031.5	0.0	-6.0	0.0	12991.6
	113	0.0	8128.5	0.0	6.0	0.0	-2061.2
58	112	0.0	10275.5	0.0	51.7	0.0	8961.7
	113	0.0	9884.5	0.0	-51.7	0.0	-7867.5
59	112	0.0	10319.6	0.0	47.8	0.0	9080.4
	113	0.0	9840.4	0.0	-47.8	0.0	-7736.6
60	112	0.0	10337.6	0.0	-33.9	0.0	9085.0
	113	0.0	9822.4	0.0	33.9	0.0	-7644.9
61	112	0.0	10381.6	0.0	-37.9	0.0	9203.7
	113	0.0	9778.4	0.0	37.9	0.0	-7514.0
62	112	0.0	11113.8	0.0	110.8	0.0	10864.6
	113	0.0	9046.2	0.0	-110.8	0.0	-5077.2
63	112	0.0	11881.8	0.0	135.2	0.0	12621.5
	113	0.0	8278.2	0.0	-135.2	0.0	-2533.8
64	112	0.0	11188.2	0.0	-26.6	0.0	11004.7
	113	0.0	8971.8	0.0	26.6	0.0	-4805.9
65	112	0.0	11956.2	0.0	-2.1	0.0	12761.6
	113	0.0	8203.8	0.0	2.1	0.0	-2262.5
66	112	0.0	12835.3	0.0	133.3	0.0	14818.2
	113	0.0	7324.7	0.0	-133.3	0.0	610.6
67	112	0.0	12879.3	0.0	129.4	0.0	14936.8
	113	0.0	7280.7	0.0	-129.4	0.0	741.5
68	112	0.0	12897.3	0.0	47.7	0.0	14941.4
	113	0.0	7262.7	0.0	-47.7	0.0	833.2
69	112	0.0	12941.4	0.0	43.7	0.0	15060.1
	113	0.0	7218.7	0.0	-43.7	0.0	964.1
70	112	0.0	11260.7	0.0	97.5	0.0	11260.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	113	0.0	8899.3	0.0	-97.5	0.0	-4640.9
71	112	0.0	12028.6	0.0	122.0	0.0	13017.2
	113	0.0	8131.4	0.0	-122.0	0.0	-2097.5
72	112	0.0	11335.1	0.0	-39.8	0.0	11400.3
	113	0.0	8824.9	0.0	39.8	0.0	-4369.6
73	112	0.0	12103.0	0.0	-15.3	0.0	13157.3
	113	0.0	8057.0	0.0	15.3	0.0	-1826.2
1	114	0.0	12318.2	-348.4	3234.6	321.1	5014.8
	115	0.0	16321.3	-348.4	1967.4	-321.1	-16083.4
2	114	0.0	10343.8	-348.4	1719.3	321.1	3649.5
	115	0.0	14028.9	-348.4	1034.7	-321.1	-13838.8
3	114	0.0	10000.4	-348.4	1619.9	321.1	3494.6
	115	0.0	13589.5	-348.4	972.1	-321.1	-13418.3
4	114	0.0	10000.4	-348.4	1619.9	321.1	3494.6
	115	0.0	13589.5	-348.4	972.1	-321.1	-13418.3
5	114	0.0	10000.4	33.2	1619.9	-30.6	3494.6
	115	0.0	13589.5	33.2	972.1	30.6	-13418.3
6	114	0.0	10000.4	-962.2	1619.9	886.8	3494.6
	115	0.0	13589.5	-962.2	972.1	-886.8	-13418.3
7	114	64189.8	10000.4	-348.4	1619.9	321.1	3494.6
	115	-64189.8	13589.5	-348.4	972.1	-321.1	-13418.3
8	114	-64189.8	10000.4	-348.4	1619.9	321.1	3494.6
	115	64189.8	13589.5	-348.4	972.1	-321.1	-13418.3
9	114	0.0	4685.7	0.0	978.6	0.0	-2348.8
	115	0.0	10850.8	0.0	641.4	0.0	-14697.6
10	114	0.0	4922.5	0.0	1188.1	0.0	-1781.4
	115	0.0	10614.1	0.0	431.9	0.0	-13955.9
11	114	0.0	4413.8	0.0	745.2	0.0	-2996.8
	115	0.0	11122.7	0.0	874.8	0.0	-15553.4
12	114	0.0	4650.5	0.0	954.7	0.0	-2429.4
	115	0.0	10886.0	0.0	665.3	0.0	-14811.6
13	114	0.0	5673.8	0.0	793.3	0.0	74.1
	115	0.0	9862.7	0.0	826.7	0.0	-11656.3
14	114	0.0	6815.9	0.0	820.5	0.0	2859.5
	115	0.0	8720.6	0.0	799.5	0.0	-8125.9
15	114	0.0	5538.3	0.0	505.0	0.0	-244.3
	115	0.0	9998.3	0.0	1115.0	0.0	-12087.7
16	114	0.0	6680.4	0.0	532.2	0.0	2541.1
	115	0.0	8856.2	0.0	1087.8	0.0	-8557.2
17	114	0.0	8492.8	0.0	1069.2	0.0	6935.8
	115	0.0	7043.8	0.0	550.8	0.0	-2929.4
18	114	0.0	8729.5	0.0	1278.7	0.0	7503.1
	115	0.0	6807.1	0.0	341.3	0.0	-2187.6
19	114	0.0	8220.8	0.0	835.8	0.0	6287.8
	115	0.0	7315.7	0.0	784.2	0.0	-3785.1
20	114	0.0	8457.6	0.0	1045.3	0.0	6855.1
	115	0.0	7079.0	0.0	574.7	0.0	-3043.4
21	114	0.0	6462.9	0.0	1491.7	0.0	1965.2
	115	0.0	9073.6	0.0	128.3	0.0	-9183.8
22	114	0.0	7605.0	0.0	1518.9	0.0	4750.6
	115	0.0	7931.5	0.0	101.1	0.0	-5653.3
23	114	0.0	6327.3	0.0	1203.4	0.0	1646.9
	115	0.0	9209.2	0.0	416.6	0.0	-9615.2
24	114	0.0	7469.4	0.0	1230.6	0.0	4432.3
	115	0.0	8067.1	0.0	389.4	0.0	-6084.7
25	114	0.0	8345.7	-232.3	2154.6	214.1	3369.9
	115	0.0	11079.1	-232.3	1313.4	-214.1	-10927.5
26	114	0.0	7029.5	-232.3	1144.4	214.1	2459.7
	115	0.0	9550.8	-232.3	691.6	-214.1	-9431.1
27	114	0.0	6800.6	-232.3	1078.2	214.1	2356.4
	115	0.0	9257.9	-232.3	649.8	-214.1	-9150.8
28	114	0.0	6800.6	-232.3	1078.2	214.1	2356.4
	115	0.0	9257.9	-232.3	649.8	-214.1	-9150.8
29	114	0.0	6800.6	22.1	1078.2	-20.4	2356.4
	115	0.0	9257.9	22.1	649.8	20.4	-9150.8
30	114	0.0	6800.6	-641.5	1078.2	591.2	2356.4
	115	0.0	9257.9	-641.5	649.8	-591.2	-9150.8
31	114	42793.2	6800.6	-232.3	1078.2	214.1	2356.4
	115	-42793.2	9257.9	-232.3	649.8	-214.1	-9150.8
32	114	-42793.2	6800.6	-232.3	1078.2	214.1	2356.4
	115	42793.2	9257.9	-232.3	649.8	-214.1	-9150.8
33	114	0.0	6571.6	0.0	1011.9	0.0	2253.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	115	0.0	8964.9	0.0	608.1	0.0	-8870.5
34	114	0.0	6663.2	0.0	1038.4	0.0	2294.5
	115	0.0	9082.1	0.0	624.8	0.0	-8982.6
35	114	0.0	6571.6	0.0	1011.9	0.0	2253.2
	115	0.0	8964.9	0.0	608.1	0.0	-8870.5
36	114	0.0	6571.6	0.0	1011.9	0.0	2253.2
	115	0.0	8964.9	0.0	608.1	0.0	-8870.5
37	114	0.0	6571.6	127.2	1011.9	-117.2	2253.2
	115	0.0	8964.9	127.2	608.1	117.2	-8870.5
38	114	0.0	6571.6	-204.6	1011.9	188.6	2253.2
	115	0.0	8964.9	-204.6	608.1	-188.6	-8870.5
39	114	53491.5	6571.6	0.0	1011.9	0.0	2253.2
	115	-53491.5	8964.9	0.0	608.1	0.0	-8870.5
40	114	-53491.5	6571.6	0.0	1011.9	0.0	2253.2
	115	53491.5	8964.9	0.0	608.1	0.0	-8870.5
41	114	0.0	6571.6	0.0	1011.9	0.0	2253.2
	115	0.0	8964.9	0.0	608.1	0.0	-8870.5
42	114	0.0	4875.1	0.0	982.6	0.0	-1886.8
	115	0.0	10661.4	0.0	637.4	0.0	-14112.3
43	114	0.0	5086.3	0.0	1170.2	0.0	-1380.6
	115	0.0	10450.2	0.0	449.8	0.0	-13450.6
44	114	0.0	4627.7	0.0	772.4	0.0	-2476.3
	115	0.0	10908.8	0.0	847.6	0.0	-14890.8
45	114	0.0	4838.9	0.0	960.0	0.0	-1970.1
	115	0.0	10697.6	0.0	660.0	0.0	-14229.1
46	114	0.0	5769.5	0.0	818.5	0.0	305.9
	115	0.0	9767.0	0.0	801.5	0.0	-11359.2
47	114	0.0	6798.3	0.0	842.9	0.0	2814.9
	115	0.0	8738.3	0.0	777.1	0.0	-8179.1
48	114	0.0	5641.0	0.0	555.5	0.0	4.1
	115	0.0	9895.5	0.0	1064.5	0.0	-11767.7
49	114	0.0	6669.8	0.0	579.9	0.0	2513.1
	115	0.0	8866.7	0.0	1040.1	0.0	-8587.6
50	114	0.0	8304.3	0.0	1063.8	0.0	6476.4
	115	0.0	7232.2	0.0	556.2	0.0	-3511.9
51	114	0.0	8515.5	0.0	1251.5	0.0	6982.6
	115	0.0	7021.0	0.0	368.5	0.0	-2850.2
52	114	0.0	8057.0	0.0	853.6	0.0	5886.9
	115	0.0	7479.6	0.0	766.4	0.0	-4290.4
53	114	0.0	8268.2	0.0	1041.3	0.0	6393.2
	115	0.0	7268.4	0.0	578.7	0.0	-3628.7
54	114	0.0	6473.5	0.0	1444.0	0.0	1993.3
	115	0.0	9063.0	0.0	176.0	0.0	-9153.4
55	114	0.0	7502.3	0.0	1468.4	0.0	4502.3
	115	0.0	8034.3	0.0	151.6	0.0	-5973.3
56	114	0.0	6345.0	0.0	1181.0	0.0	1691.5
	115	0.0	9191.5	0.0	439.0	0.0	-9561.9
57	114	0.0	7373.8	0.0	1205.3	0.0	4200.4
	115	0.0	8162.7	0.0	414.7	0.0	-6381.8
58	114	0.0	4588.2	0.0	977.4	0.0	-2587.0
	115	0.0	10948.4	0.0	642.6	0.0	-14998.9
59	114	0.0	4835.5	0.0	1197.0	0.0	-1994.2
	115	0.0	10701.0	0.0	423.0	0.0	-14224.0
60	114	0.0	4299.5	0.0	731.9	0.0	-3274.9
	115	0.0	11237.0	0.0	888.1	0.0	-15907.4
61	114	0.0	4546.8	0.0	951.5	0.0	-2682.1
	115	0.0	10989.7	0.0	668.5	0.0	-15132.4
62	114	0.0	5632.5	0.0	785.0	0.0	-26.5
	115	0.0	9904.0	0.0	835.0	0.0	-11784.3
63	114	0.0	6835.0	0.0	813.5	0.0	2906.1
	115	0.0	8701.6	0.0	806.5	0.0	-8067.2
64	114	0.0	5483.9	0.0	478.4	0.0	-375.7
	115	0.0	10052.6	0.0	1141.6	0.0	-12257.0
65	114	0.0	6686.4	0.0	506.9	0.0	2556.9
	115	0.0	8850.2	0.0	1113.1	0.0	-8539.9
66	114	0.0	8596.4	0.0	1072.4	0.0	7188.4
	115	0.0	6940.1	0.0	547.6	0.0	-2608.6
67	114	0.0	8843.8	0.0	1292.0	0.0	7781.2
	115	0.0	6692.8	0.0	328.0	0.0	-1833.7
68	114	0.0	8307.8	0.0	826.9	0.0	6500.5
	115	0.0	7228.8	0.0	793.1	0.0	-3517.0
69	114	0.0	8555.1	0.0	1046.5	0.0	7093.3
	115	0.0	6981.4	0.0	573.5	0.0	-2742.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
70	114	0.0	6456.9	0.0	1517.0	0.0	1949.4
	115	0.0	9079.6	0.0	103.0	0.0	-9201.2
71	114	0.0	7659.4	0.0	1545.5	0.0	4882.0
	115	0.0	7877.1	0.0	74.5	0.0	-5484.1
72	114	0.0	6308.3	0.0	1210.4	0.0	1600.3
	115	0.0	9228.2	0.0	409.6	0.0	-9673.8
73	114	0.0	7510.8	0.0	1238.9	0.0	4532.9
	115	0.0	8025.7	0.0	381.1	0.0	-5956.7
1	115	0.0	13869.3	-328.9	2708.2	286.1	13494.4
	116	0.0	13164.8	-328.9	2493.8	-286.1	-11655.8
2	115	0.0	11824.1	-328.9	1414.0	286.1	11563.2
	116	0.0	11182.4	-328.9	1340.0	-286.1	-9888.3
3	115	0.0	11446.2	-328.9	1330.0	286.1	11199.3
	116	0.0	10821.3	-328.9	1262.0	-286.1	-9568.4
4	115	0.0	11446.2	-328.9	1330.0	286.1	11199.3
	116	0.0	10821.3	-328.9	1262.0	-286.1	-9568.4
5	115	0.0	11446.2	31.3	1330.0	-27.2	11199.3
	116	0.0	10821.3	31.3	1262.0	27.2	-9568.4
6	115	0.0	11446.2	-908.3	1330.0	790.2	11199.3
	116	0.0	10821.3	-908.3	1262.0	-790.2	-9568.4
7	115	64189.8	11446.2	-328.9	1330.0	286.1	11199.3
	116	-64189.8	10821.3	-328.9	1262.0	-286.1	-9568.4
8	115	-64189.8	11446.2	-328.9	1330.0	286.1	11199.3
	116	64189.8	10821.3	-328.9	1262.0	-286.1	-9568.4
9	115	0.0	5003.3	0.0	863.3	0.0	639.5
	116	0.0	9662.3	0.0	756.7	0.0	-12799.0
10	115	0.0	4863.7	0.0	861.5	0.0	237.3
	116	0.0	9801.8	0.0	758.5	0.0	-13124.2
11	115	0.0	4462.6	0.0	835.2	0.0	-763.3
	116	0.0	10203.0	0.0	784.8	0.0	-14220.5
12	115	0.0	4323.1	0.0	833.4	0.0	-1165.5
	116	0.0	10342.5	0.0	786.6	0.0	-14545.7
13	115	0.0	7390.6	0.0	877.2	0.0	7013.6
	116	0.0	7275.0	0.0	742.8	0.0	-6710.9
14	115	0.0	9117.3	0.0	865.1	0.0	11602.7
	116	0.0	5548.3	0.0	754.9	0.0	-2286.8
15	115	0.0	6429.9	0.0	797.2	0.0	4508.7
	116	0.0	8235.6	0.0	822.8	0.0	-9226.7
16	115	0.0	8156.6	0.0	785.1	0.0	9097.8
	116	0.0	6509.0	0.0	834.9	0.0	-4802.6
17	115	0.0	10758.9	0.0	823.0	0.0	15936.4
	116	0.0	3906.7	0.0	797.0	0.0	1948.1
18	115	0.0	10619.3	0.0	821.2	0.0	15534.2
	116	0.0	4046.3	0.0	798.8	0.0	1622.9
19	115	0.0	10218.2	0.0	794.9	0.0	14533.6
	116	0.0	4447.4	0.0	825.1	0.0	526.6
20	115	0.0	10078.6	0.0	793.1	0.0	14131.5
	116	0.0	4587.0	0.0	826.9	0.0	201.4
21	115	0.0	6925.3	0.0	871.3	0.0	5673.1
	116	0.0	7740.3	0.0	748.7	0.0	-7795.0
22	115	0.0	8652.0	0.0	859.3	0.0	10262.2
	116	0.0	6013.6	0.0	760.7	0.0	-3370.9
23	115	0.0	5964.7	0.0	791.3	0.0	3168.2
	116	0.0	8700.9	0.0	828.7	0.0	-10310.8
24	115	0.0	7691.3	0.0	779.2	0.0	7757.3
	116	0.0	6974.2	0.0	840.8	0.0	-5886.6
25	115	0.0	9408.3	-219.2	1803.0	190.7	9158.1
	116	0.0	8927.6	-219.2	1665.0	-190.7	-7903.7
26	115	0.0	8044.8	-219.2	940.3	190.7	7870.7
	116	0.0	7606.0	-219.2	895.7	-190.7	-6725.4
27	115	0.0	7792.9	-219.2	884.2	190.7	7628.1
	116	0.0	7365.3	-219.2	843.8	-190.7	-6512.1
28	115	0.0	7792.9	-219.2	884.2	190.7	7628.1
	116	0.0	7365.3	-219.2	843.8	-190.7	-6512.1
29	115	0.0	7792.9	20.9	884.2	-18.2	7628.1
	116	0.0	7365.3	20.9	843.8	18.2	-6512.1
30	115	0.0	7792.9	-605.5	884.2	526.8	7628.1
	116	0.0	7365.3	-605.5	843.8	-526.8	-6512.1
31	115	42793.2	7792.9	-219.2	884.2	190.7	7628.1
	116	-42793.2	7365.3	-219.2	843.8	-190.7	-6512.1
32	115	-42793.2	7792.9	-219.2	884.2	190.7	7628.1
	116	42793.2	7365.3	-219.2	843.8	-190.7	-6512.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
33	115	0.0	7541.0	0.0	828.2	0.0	7385.5
	116	0.0	7124.6	0.0	791.8	0.0	-6298.8
34	115	0.0	7641.7	0.0	850.6	0.0	7482.5
	116	0.0	7220.9	0.0	812.6	0.0	-6384.1
35	115	0.0	7541.0	0.0	828.2	0.0	7385.5
	116	0.0	7124.6	0.0	791.8	0.0	-6298.8
36	115	0.0	7541.0	0.0	828.2	0.0	7385.5
	116	0.0	7124.6	0.0	791.8	0.0	-6298.8
37	115	0.0	7541.0	120.1	828.2	-104.5	7385.5
	116	0.0	7124.6	120.1	791.8	104.5	-6298.8
38	115	0.0	7541.0	-193.1	828.2	168.0	7385.5
	116	0.0	7124.6	-193.1	791.8	-168.0	-6298.8
39	115	53491.5	7541.0	0.0	828.2	0.0	7385.5
	116	-53491.5	7124.6	0.0	791.8	0.0	-6298.8
40	115	-53491.5	7541.0	0.0	828.2	0.0	7385.5
	116	53491.5	7124.6	0.0	791.8	0.0	-6298.8
41	115	0.0	7541.0	0.0	828.2	0.0	7385.5
	116	0.0	7124.6	0.0	791.8	0.0	-6298.8
42	115	0.0	5254.4	0.0	859.6	0.0	1307.2
	116	0.0	9411.2	0.0	760.4	0.0	-12156.0
43	115	0.0	5129.3	0.0	858.2	0.0	946.1
	116	0.0	9536.3	0.0	761.8	0.0	-12447.0
44	115	0.0	4768.2	0.0	834.2	0.0	45.8
	116	0.0	9897.4	0.0	785.8	0.0	-13434.3
45	115	0.0	4643.1	0.0	832.8	0.0	-315.3
	116	0.0	10022.5	0.0	787.2	0.0	-13725.3
46	115	0.0	7402.1	0.0	871.7	0.0	7042.4
	116	0.0	7263.5	0.0	748.3	0.0	-6679.6
47	115	0.0	8957.5	0.0	860.9	0.0	11176.1
	116	0.0	5708.1	0.0	759.1	0.0	-2694.5
48	115	0.0	6541.6	0.0	800.2	0.0	4798.5
	116	0.0	8124.0	0.0	819.8	0.0	-8933.1
49	115	0.0	8096.9	0.0	789.4	0.0	8932.2
	116	0.0	6568.7	0.0	830.6	0.0	-4947.9
50	115	0.0	10438.9	0.0	823.7	0.0	15086.2
	116	0.0	4226.7	0.0	796.3	0.0	1127.7
51	115	0.0	10313.7	0.0	822.3	0.0	14725.1
	116	0.0	4351.9	0.0	797.7	0.0	836.7
52	115	0.0	9952.6	0.0	798.2	0.0	13824.8
	116	0.0	4713.0	0.0	821.8	0.0	-150.5
53	115	0.0	9827.5	0.0	796.8	0.0	13463.7
	116	0.0	4838.1	0.0	823.2	0.0	-441.6
54	115	0.0	6985.0	0.0	867.0	0.0	5838.7
	116	0.0	7680.6	0.0	753.0	0.0	-7649.7
55	115	0.0	8540.3	0.0	856.2	0.0	9972.4
	116	0.0	6125.2	0.0	763.8	0.0	-3664.5
56	115	0.0	6124.5	0.0	795.5	0.0	3594.8
	116	0.0	8541.1	0.0	824.5	0.0	-9903.1
57	115	0.0	7679.8	0.0	784.7	0.0	7728.5
	116	0.0	6985.8	0.0	835.3	0.0	-5918.0
58	115	0.0	4868.6	0.0	865.0	0.0	281.5
	116	0.0	9797.0	0.0	755.0	0.0	-13144.4
59	115	0.0	4722.1	0.0	863.3	0.0	-141.2
	116	0.0	9943.5	0.0	756.7	0.0	-13485.3
60	115	0.0	4300.0	0.0	835.2	0.0	-1193.5
	116	0.0	10365.6	0.0	784.8	0.0	-14639.1
61	115	0.0	4153.5	0.0	833.5	0.0	-1616.2
	116	0.0	10512.1	0.0	786.5	0.0	-14980.0
62	115	0.0	7379.5	0.0	879.2	0.0	6986.4
	116	0.0	7286.1	0.0	740.8	0.0	-6741.6
63	115	0.0	9197.5	0.0	866.6	0.0	11818.1
	116	0.0	5468.1	0.0	753.4	0.0	-2083.6
64	115	0.0	6372.8	0.0	795.5	0.0	4361.7
	116	0.0	8292.7	0.0	824.5	0.0	-9377.9
65	115	0.0	8190.8	0.0	782.9	0.0	9193.4
	116	0.0	6474.8	0.0	837.1	0.0	-4719.8
66	115	0.0	10928.4	0.0	822.9	0.0	16387.1
	116	0.0	3737.2	0.0	797.1	0.0	2382.4
67	115	0.0	10781.9	0.0	821.2	0.0	15964.4
	116	0.0	3883.7	0.0	798.8	0.0	2041.5
68	115	0.0	10359.9	0.0	793.2	0.0	14912.1
	116	0.0	4305.7	0.0	826.8	0.0	887.7
69	115	0.0	10213.4	0.0	791.5	0.0	14489.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	116	0.0	4452.2	0.0	828.5	0.0	546.8
70	115	0.0	6891.1	0.0	873.5	0.0	5577.6
	116	0.0	7774.5	0.0	746.5	0.0	-7877.8
71	115	0.0	8709.1	0.0	860.9	0.0	10409.2
	116	0.0	5956.5	0.0	759.1	0.0	-3219.7
72	115	0.0	5884.5	0.0	789.8	0.0	2952.8
	116	0.0	8781.1	0.0	830.2	0.0	-10514.0
73	115	0.0	7702.4	0.0	777.2	0.0	7784.5
	116	0.0	6963.2	0.0	842.8	0.0	-5856.0
1	116	0.0	14411.4	-362.3	2961.0	347.2	12936.2
	117	0.0	15367.5	-362.3	2241.0	-347.2	-15685.2
2	116	0.0	12245.4	-362.3	1591.8	347.2	10973.2
	117	0.0	13097.0	-362.3	1162.2	-347.2	-13421.5
3	116	0.0	11850.3	-362.3	1500.0	347.2	10618.0
	117	0.0	12678.1	-362.3	1092.0	-347.2	-12998.1
4	116	0.0	11850.3	-362.3	1500.0	347.2	10618.0
	117	0.0	12678.1	-362.3	1092.0	-347.2	-12998.1
5	116	0.0	11850.3	34.5	1500.0	-33.1	10618.0
	117	0.0	12678.1	34.5	1092.0	33.1	-12998.1
6	116	0.0	11850.3	-1000.5	1500.0	958.8	10618.0
	117	0.0	12678.1	-1000.5	1092.0	-958.8	-12998.1
7	116	64189.8	11850.3	-362.3	1500.0	347.2	10618.0
	117	-64189.8	12678.1	-362.3	1092.0	-347.2	-12998.1
8	116	-64189.8	11850.3	-362.3	1500.0	347.2	10618.0
	117	64189.8	12678.1	-362.3	1092.0	-347.2	-12998.1
9	116	0.0	5558.4	0.0	983.4	0.0	713.1
	117	0.0	10596.2	0.0	636.6	0.0	-15196.6
10	116	0.0	5467.9	0.0	958.2	0.0	421.0
	117	0.0	10686.7	0.0	661.8	0.0	-15424.7
11	116	0.0	5080.9	0.0	964.9	0.0	-656.5
	117	0.0	11073.7	0.0	655.1	0.0	-16573.4
12	116	0.0	4990.4	0.0	939.8	0.0	-948.6
	117	0.0	11164.2	0.0	680.2	0.0	-16801.5
13	116	0.0	7617.2	0.0	1016.9	0.0	6552.8
	117	0.0	8537.4	0.0	603.1	0.0	-9197.5
14	116	0.0	9133.0	0.0	1004.4	0.0	10814.5
	117	0.0	7021.6	0.0	615.6	0.0	-4743.1
15	116	0.0	6770.2	0.0	961.0	0.0	4129.3
	117	0.0	9384.4	0.0	659.0	0.0	-11646.7
16	116	0.0	8286.0	0.0	948.5	0.0	8390.9
	117	0.0	7868.6	0.0	671.5	0.0	-7192.3
17	116	0.0	10611.2	0.0	941.9	0.0	14918.6
	117	0.0	5543.5	0.0	678.1	0.0	-348.6
18	116	0.0	10520.7	0.0	916.7	0.0	14626.5
	117	0.0	5634.0	0.0	703.3	0.0	-576.7
19	116	0.0	10133.7	0.0	923.4	0.0	13549.0
	117	0.0	6021.0	0.0	696.6	0.0	-1725.4
20	116	0.0	10043.2	0.0	898.2	0.0	13256.9
	117	0.0	6111.4	0.0	721.8	0.0	-1953.5
21	116	0.0	7315.5	0.0	933.1	0.0	5579.1
	117	0.0	8839.1	0.0	686.9	0.0	-9957.8
22	116	0.0	8831.4	0.0	920.7	0.0	9840.7
	117	0.0	7323.3	0.0	699.3	0.0	-5503.4
23	116	0.0	6468.6	0.0	877.2	0.0	3155.5
	117	0.0	9686.1	0.0	742.8	0.0	-12407.0
24	116	0.0	7984.4	0.0	864.8	0.0	7417.2
	117	0.0	8170.2	0.0	755.2	0.0	-7952.6
25	116	0.0	9771.6	-241.5	1976.0	231.4	8767.3
	117	0.0	10426.0	-241.5	1492.0	-231.4	-10648.7
26	116	0.0	8327.6	-241.5	1063.2	231.4	7458.6
	117	0.0	8912.3	-241.5	772.8	-231.4	-9139.6
27	116	0.0	8064.2	-241.5	1002.0	231.4	7221.8
	117	0.0	8633.1	-241.5	726.0	-231.4	-8857.3
28	116	0.0	8064.2	-241.5	1002.0	231.4	7221.8
	117	0.0	8633.1	-241.5	726.0	-231.4	-8857.3
29	116	0.0	8064.2	23.0	1002.0	-22.0	7221.8
	117	0.0	8633.1	23.0	726.0	22.0	-8857.3
30	116	0.0	8064.2	-667.0	1002.0	639.2	7221.8
	117	0.0	8633.1	-667.0	726.0	-639.2	-8857.3
31	116	42793.2	8064.2	-241.5	1002.0	231.4	7221.8
	117	-42793.2	8633.1	-241.5	726.0	-231.4	-8857.3
32	116	-42793.2	8064.2	-241.5	1002.0	231.4	7221.8

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	117	42793.2	8633.1	-241.5	726.0	-231.4	-8857.3
33	116	0.0	7800.8	0.0	940.8	0.0	6985.0
	117	0.0	8353.8	0.0	679.2	0.0	-8575.0
34	116	0.0	7906.2	0.0	965.3	0.0	7079.7
	117	0.0	8465.5	0.0	697.9	0.0	-8688.0
35	116	0.0	7800.8	0.0	940.8	0.0	6985.0
	117	0.0	8353.8	0.0	679.2	0.0	-8575.0
36	116	0.0	7800.8	0.0	940.8	0.0	6985.0
	117	0.0	8353.8	0.0	679.2	0.0	-8575.0
37	116	0.0	7800.8	132.3	940.8	-126.7	6985.0
	117	0.0	8353.8	132.3	679.2	126.7	-8575.0
38	116	0.0	7800.8	-212.8	940.8	203.9	6985.0
	117	0.0	8353.8	-212.8	679.2	-203.9	-8575.0
39	116	53491.5	7800.8	0.0	940.8	0.0	6985.0
	117	-53491.5	8353.8	0.0	679.2	0.0	-8575.0
40	116	-53491.5	7800.8	0.0	940.8	0.0	6985.0
	117	53491.5	8353.8	0.0	679.2	0.0	-8575.0
41	116	0.0	7800.8	0.0	940.8	0.0	6985.0
	117	0.0	8353.8	0.0	679.2	0.0	-8575.0
42	116	0.0	5780.1	0.0	979.0	0.0	1333.4
	117	0.0	10374.5	0.0	641.0	0.0	-14542.0
43	116	0.0	5699.4	0.0	956.6	0.0	1072.3
	117	0.0	10455.2	0.0	663.4	0.0	-14744.8
44	116	0.0	5350.8	0.0	962.0	0.0	101.8
	117	0.0	10803.9	0.0	658.0	0.0	-15779.9
45	116	0.0	5270.1	0.0	939.6	0.0	-159.3
	117	0.0	10884.6	0.0	680.4	0.0	-15982.7
46	116	0.0	7631.9	0.0	1008.9	0.0	6586.1
	117	0.0	8522.7	0.0	611.1	0.0	-9146.4
47	116	0.0	8997.3	0.0	997.8	0.0	10424.9
	117	0.0	7157.3	0.0	622.2	0.0	-5134.1
48	116	0.0	6873.3	0.0	958.6	0.0	4415.4
	117	0.0	9281.3	0.0	661.4	0.0	-11339.9
49	116	0.0	8238.7	0.0	947.5	0.0	8254.1
	117	0.0	7915.9	0.0	672.5	0.0	-7327.6
50	116	0.0	10331.5	0.0	942.0	0.0	14129.3
	117	0.0	5823.1	0.0	678.0	0.0	-1167.4
51	116	0.0	10250.8	0.0	919.6	0.0	13868.2
	117	0.0	5903.8	0.0	700.4	0.0	-1370.2
52	116	0.0	9902.1	0.0	925.0	0.0	12897.7
	117	0.0	6252.5	0.0	695.0	0.0	-2405.3
53	116	0.0	9821.4	0.0	902.6	0.0	12636.6
	117	0.0	6333.2	0.0	717.4	0.0	-2608.1
54	116	0.0	7362.9	0.0	934.2	0.0	5715.9
	117	0.0	8791.7	0.0	685.8	0.0	-9822.5
55	116	0.0	8728.3	0.0	923.1	0.0	9554.6
	117	0.0	7426.3	0.0	696.9	0.0	-5810.2
56	116	0.0	6604.3	0.0	883.8	0.0	3545.1
	117	0.0	9550.4	0.0	736.2	0.0	-12016.0
57	116	0.0	7969.7	0.0	872.7	0.0	7383.9
	117	0.0	8184.9	0.0	747.3	0.0	-8003.7
58	116	0.0	5439.2	0.0	985.5	0.0	379.8
	117	0.0	10715.5	0.0	634.5	0.0	-15548.8
59	116	0.0	5344.6	0.0	959.3	0.0	73.9
	117	0.0	10810.0	0.0	660.7	0.0	-15786.6
60	116	0.0	4937.1	0.0	965.7	0.0	-1060.4
	117	0.0	11217.6	0.0	654.3	0.0	-16996.4
61	116	0.0	4842.5	0.0	939.4	0.0	-1366.3
	117	0.0	11312.1	0.0	680.6	0.0	-17234.3
62	116	0.0	7604.2	0.0	1020.5	0.0	6521.1
	117	0.0	8550.4	0.0	599.5	0.0	-9240.3
63	116	0.0	9200.2	0.0	1007.6	0.0	11008.1
	117	0.0	6954.4	0.0	612.4	0.0	-4550.4
64	116	0.0	6716.7	0.0	961.6	0.0	3981.5
	117	0.0	9438.0	0.0	658.4	0.0	-11806.8
65	116	0.0	8312.6	0.0	948.6	0.0	8468.4
	117	0.0	7842.0	0.0	671.4	0.0	-7116.9
66	116	0.0	10759.1	0.0	942.2	0.0	15336.3
	117	0.0	5395.5	0.0	677.8	0.0	84.2
67	116	0.0	10664.5	0.0	916.0	0.0	15030.4
	117	0.0	5490.1	0.0	704.0	0.0	-153.7
68	116	0.0	10257.0	0.0	922.4	0.0	13896.1
	117	0.0	5897.6	0.0	697.6	0.0	-1363.5

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
69	116	0.0	10162.4	0.0	896.1	0.0	13590.2
	117	0.0	5992.2	0.0	723.9	0.0	-1601.3
70	116	0.0	7288.9	0.0	933.0	0.0	5501.6
	117	0.0	8865.7	0.0	687.0	0.0	-10033.2
71	116	0.0	8884.9	0.0	920.1	0.0	9988.5
	117	0.0	7269.7	0.0	699.9	0.0	-5343.3
72	116	0.0	6401.4	0.0	874.1	0.0	2961.9
	117	0.0	9753.2	0.0	745.9	0.0	-12599.6
73	116	0.0	7997.4	0.0	861.1	0.0	7448.9
	117	0.0	8157.3	0.0	758.9	0.0	-7909.8
1	117	0.0	16663.0	-352.8	2459.0	329.3	17195.2
	118	0.0	12339.0	-352.8	2743.0	-329.3	-5088.0
2	117	0.0	14315.9	-352.8	1283.3	329.3	14781.1
	118	0.0	10365.4	-352.8	1470.7	-329.3	-3719.7
3	117	0.0	13866.8	-352.8	1204.8	329.3	14329.7
	118	0.0	10021.7	-352.8	1387.2	-329.3	-3563.4
4	117	0.0	13866.8	-352.8	1204.8	329.3	14329.7
	118	0.0	10021.7	-352.8	1387.2	-329.3	-3563.4
5	117	0.0	13866.8	33.6	1204.8	-31.4	14329.7
	118	0.0	10021.7	33.6	1387.2	31.4	-3563.4
6	117	0.0	13866.8	-974.4	1204.8	909.4	14329.7
	118	0.0	10021.7	-974.4	1387.2	-909.4	-3563.4
7	117	64189.8	13866.8	-352.8	1204.8	329.3	14329.7
	118	-64189.8	10021.7	-352.8	1387.2	-329.3	-3563.4
8	117	-64189.8	13866.8	-352.8	1204.8	329.3	14329.7
	118	64189.8	10021.7	-352.8	1387.2	-329.3	-3563.4
9	117	0.0	7596.7	0.0	895.4	0.0	4618.7
	118	0.0	8136.5	0.0	724.6	0.0	-6130.2
10	117	0.0	7340.3	0.0	628.7	0.0	3802.8
	118	0.0	8392.9	0.0	991.3	0.0	-6750.3
11	117	0.0	7180.9	0.0	730.2	0.0	3294.3
	118	0.0	8552.3	0.0	889.8	0.0	-7134.4
12	117	0.0	6924.4	0.0	463.5	0.0	2478.4
	118	0.0	8808.8	0.0	1156.5	0.0	-7754.6
13	117	0.0	9341.2	0.0	1316.0	0.0	10111.7
	118	0.0	6392.0	0.0	304.0	0.0	-1853.9
14	117	0.0	10472.6	0.0	1359.8	0.0	13663.0
	118	0.0	5260.6	0.0	260.2	0.0	930.7
15	117	0.0	8674.7	0.0	1034.0	0.0	7991.5
	118	0.0	7058.5	0.0	586.0	0.0	-3466.3
16	117	0.0	9806.1	0.0	1077.8	0.0	11542.8
	118	0.0	5927.1	0.0	542.2	0.0	-681.7
17	117	0.0	11368.1	0.0	1041.2	0.0	16456.3
	118	0.0	4365.1	0.0	578.8	0.0	3151.9
18	117	0.0	11111.6	0.0	774.5	0.0	15640.4
	118	0.0	4621.6	0.0	845.5	0.0	2531.7
19	117	0.0	10952.2	0.0	876.0	0.0	15131.9
	118	0.0	4781.0	0.0	744.0	0.0	2147.6
20	117	0.0	10695.8	0.0	609.3	0.0	14315.9
	118	0.0	5037.4	0.0	1010.7	0.0	1527.5
21	117	0.0	8486.4	0.0	427.0	0.0	7391.9
	118	0.0	7246.8	0.0	1193.0	0.0	-3921.0
22	117	0.0	9617.8	0.0	470.8	0.0	10943.2
	118	0.0	6115.4	0.0	1149.2	0.0	-1136.4
23	117	0.0	7819.9	0.0	145.0	0.0	5271.7
	118	0.0	7913.3	0.0	1475.0	0.0	-5533.4
24	117	0.0	8951.3	0.0	188.7	0.0	8823.0
	118	0.0	6781.9	0.0	1431.3	0.0	-2748.8
25	117	0.0	11309.7	-235.2	1640.8	219.5	11678.6
	118	0.0	8361.0	-235.2	1827.2	-219.5	-3422.0
26	117	0.0	9745.0	-235.2	857.0	219.5	10069.3
	118	0.0	7045.2	-235.2	979.0	-219.5	-2509.8
27	117	0.0	9445.6	-235.2	804.7	219.5	9768.3
	118	0.0	6816.1	-235.2	923.3	-219.5	-2405.6
28	117	0.0	9445.6	-235.2	804.7	219.5	9768.3
	118	0.0	6816.1	-235.2	923.3	-219.5	-2405.6
29	117	0.0	9445.6	22.4	804.7	-20.9	9768.3
	118	0.0	6816.1	22.4	923.3	20.9	-2405.6
30	117	0.0	9445.6	-649.6	804.7	606.3	9768.3
	118	0.0	6816.1	-649.6	923.3	-606.3	-2405.6
31	117	42793.2	9445.6	-235.2	804.7	219.5	9768.3
	118	-42793.2	6816.1	-235.2	923.3	-219.5	-2405.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
32	117	-42793.2	9445.6	-235.2	804.7	219.5	9768.3
	118	42793.2	6816.1	-235.2	923.3	-219.5	-2405.6
33	117	0.0	9146.2	0.0	752.4	0.0	9467.3
	118	0.0	6587.0	0.0	867.6	0.0	-2301.3
34	117	0.0	9266.0	0.0	773.3	0.0	9587.7
	118	0.0	6678.6	0.0	889.9	0.0	-2343.0
35	117	0.0	9146.2	0.0	752.4	0.0	9467.3
	118	0.0	6587.0	0.0	867.6	0.0	-2301.3
36	117	0.0	9146.2	0.0	752.4	0.0	9467.3
	118	0.0	6587.0	0.0	867.6	0.0	-2301.3
37	117	0.0	9146.2	128.8	752.4	-120.2	9467.3
	118	0.0	6587.0	128.8	867.6	120.2	-2301.3
38	117	0.0	9146.2	-207.2	752.4	193.4	9467.3
	118	0.0	6587.0	-207.2	867.6	-193.4	-2301.3
39	117	53491.5	9146.2	0.0	752.4	0.0	9467.3
	118	-53491.5	6587.0	0.0	867.6	0.0	-2301.3
40	117	-53491.5	9146.2	0.0	752.4	0.0	9467.3
	118	53491.5	6587.0	0.0	867.6	0.0	-2301.3
41	117	0.0	9146.2	0.0	752.4	0.0	9467.3
	118	0.0	6587.0	0.0	867.6	0.0	-2301.3
42	117	0.0	7750.2	0.0	932.3	0.0	5099.0
	118	0.0	7983.0	0.0	687.7	0.0	-5750.9
43	117	0.0	7520.5	0.0	692.3	0.0	4368.1
	118	0.0	8212.7	0.0	927.7	0.0	-6306.4
44	117	0.0	7374.9	0.0	733.0	0.0	3903.7
	118	0.0	8358.3	0.0	887.0	0.0	-6657.3
45	117	0.0	7145.2	0.0	492.9	0.0	3172.8
	118	0.0	8588.0	0.0	1127.1	0.0	-7212.7
46	117	0.0	9320.1	0.0	1275.2	0.0	10042.2
	118	0.0	6413.1	0.0	344.8	0.0	-1902.6
47	117	0.0	10339.2	0.0	1299.1	0.0	13241.0
	118	0.0	5394.0	0.0	320.9	0.0	605.7
48	117	0.0	8718.9	0.0	1005.8	0.0	8129.9
	118	0.0	7014.3	0.0	614.2	0.0	-3356.8
49	117	0.0	9738.1	0.0	1029.7	0.0	11328.8
	118	0.0	5995.1	0.0	590.3	0.0	-848.5
50	117	0.0	11147.3	0.0	1011.9	0.0	15761.9
	118	0.0	4585.9	0.0	608.1	0.0	2610.1
51	117	0.0	10917.6	0.0	771.8	0.0	15031.0
	118	0.0	4815.6	0.0	848.2	0.0	2054.6
52	117	0.0	10772.0	0.0	812.5	0.0	14566.5
	118	0.0	4961.2	0.0	807.5	0.0	1703.7
53	117	0.0	10542.3	0.0	572.4	0.0	13835.7
	118	0.0	5190.9	0.0	1047.6	0.0	1148.2
54	117	0.0	8554.4	0.0	475.1	0.0	7605.9
	118	0.0	7178.8	0.0	1144.9	0.0	-3754.2
55	117	0.0	9573.5	0.0	498.9	0.0	10804.8
	118	0.0	6159.7	0.0	1121.1	0.0	-1245.9
56	117	0.0	7953.3	0.0	205.7	0.0	5693.6
	118	0.0	7779.9	0.0	1414.3	0.0	-5208.4
57	117	0.0	8972.4	0.0	229.5	0.0	8892.5
	118	0.0	6760.8	0.0	1390.5	0.0	-2700.1
58	117	0.0	7514.6	0.0	962.8	0.0	4361.8
	118	0.0	8218.6	0.0	657.2	0.0	-6333.1
59	117	0.0	7246.0	0.0	682.2	0.0	3507.1
	118	0.0	8487.2	0.0	937.8	0.0	-6982.7
60	117	0.0	7075.8	0.0	729.6	0.0	2964.2
	118	0.0	8657.4	0.0	890.4	0.0	-7392.8
61	117	0.0	6807.2	0.0	449.0	0.0	2109.5
	118	0.0	8926.0	0.0	1171.0	0.0	-8042.4
62	117	0.0	9349.9	0.0	1363.6	0.0	10140.6
	118	0.0	6383.3	0.0	256.4	0.0	-1834.2
63	117	0.0	10541.1	0.0	1391.5	0.0	13879.6
	118	0.0	5192.1	0.0	228.5	0.0	1097.6
64	117	0.0	8646.8	0.0	1048.6	0.0	7904.1
	118	0.0	7086.4	0.0	571.4	0.0	-3535.0
65	117	0.0	9838.0	0.0	1076.5	0.0	11643.1
	118	0.0	5895.2	0.0	543.5	0.0	-603.2
66	117	0.0	11485.3	0.0	1055.7	0.0	16825.1
	118	0.0	4247.9	0.0	564.3	0.0	3439.7
67	117	0.0	11216.7	0.0	775.1	0.0	15970.4
	118	0.0	4516.5	0.0	844.9	0.0	2790.1
68	117	0.0	11046.5	0.0	822.6	0.0	15427.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	118	0.0	4686.7	0.0	797.4	0.0	2380.0
69	117	0.0	10777.9	0.0	542.0	0.0	14572.9
	118	0.0	4955.3	0.0	1078.0	0.0	1730.4
70	117	0.0	8454.5	0.0	428.3	0.0	7291.6
	118	0.0	7278.7	0.0	1191.7	0.0	-3999.5
71	117	0.0	9645.7	0.0	456.2	0.0	11030.6
	118	0.0	6087.5	0.0	1163.8	0.0	-1067.7
72	117	0.0	7751.4	0.0	113.3	0.0	5055.1
	118	0.0	7981.8	0.0	1506.7	0.0	-5700.3
73	117	0.0	8942.6	0.0	141.2	0.0	8794.1
	118	0.0	6790.6	0.0	1478.8	0.0	-2768.5
1	101	0.0	3850.5	-242.5	2268.4	155.6	2971.1
	108	0.0	4563.7	-242.5	1199.6	-155.6	-4344.0
2	101	0.0	2513.4	-242.5	1017.3	155.6	1683.6
	108	0.0	3302.0	-242.5	818.7	-155.6	-3201.7
3	101	0.0	2417.5	-669.9	950.3	429.9	1583.7
	108	0.0	3224.7	-669.9	777.7	-429.9	-3137.6
4	101	0.0	2417.5	23.1	950.3	-14.8	1583.7
	108	0.0	3224.7	23.1	777.7	14.8	-3137.6
5	101	0.0	2417.5	-242.5	950.3	155.6	1583.7
	108	0.0	3224.7	-242.5	777.7	-155.6	-3137.6
6	101	0.0	2417.5	-242.5	950.3	155.6	1583.7
	108	0.0	3224.7	-242.5	777.7	-155.6	-3137.6
7	101	64189.8	2417.5	-242.5	950.3	155.6	1583.7
	108	-64189.8	3224.7	-242.5	777.7	-155.6	-3137.6
8	101	-64189.8	2417.5	-242.5	950.3	155.6	1583.7
	108	64189.8	3224.7	-242.5	777.7	-155.6	-3137.6
9	101	0.0	1525.0	0.0	509.9	0.0	678.9
	108	0.0	2352.0	0.0	570.1	0.0	-2269.7
10	101	0.0	3610.0	0.0	481.8	0.0	5171.6
	108	0.0	266.9	0.0	598.2	0.0	1265.0
11	101	0.0	1054.0	0.0	513.6	0.0	-3611.4
	108	0.0	2823.0	0.0	566.4	0.0	-3235.0
12	101	0.0	3139.0	0.0	485.6	0.0	881.2
	108	0.0	738.0	0.0	594.4	0.0	299.7
13	101	0.0	-631.6	0.0	609.9	0.0	-3893.8
	108	0.0	4508.5	0.0	470.1	0.0	-6000.7
14	101	0.0	-1048.4	0.0	667.0	0.0	-3750.8
	108	0.0	4925.4	0.0	413.0	0.0	-6716.5
15	101	0.0	-2627.1	0.0	612.4	0.0	-9188.0
	108	0.0	6504.0	0.0	467.6	0.0	-9421.7
16	101	0.0	-3043.9	0.0	669.5	0.0	-9044.9
	108	0.0	6920.8	0.0	410.5	0.0	-10137.5
17	101	0.0	135.6	0.0	700.2	0.0	1155.6
	108	0.0	3741.4	0.0	379.8	0.0	-4655.7
18	101	0.0	2220.6	0.0	672.1	0.0	5648.3
	108	0.0	1656.3	0.0	407.9	0.0	-1121.0
19	101	0.0	-335.4	0.0	704.0	0.0	-3134.7
	108	0.0	4212.4	0.0	376.0	0.0	-5621.0
20	101	0.0	1749.6	0.0	675.9	0.0	1358.0
	108	0.0	2127.4	0.0	404.1	0.0	-2086.3
21	101	0.0	6318.5	0.0	516.3	0.0	11081.8
	108	0.0	-2441.5	0.0	563.7	0.0	5781.5
22	101	0.0	5901.6	0.0	573.4	0.0	11224.8
	108	0.0	-2024.7	0.0	506.6	0.0	5065.7
23	101	0.0	4323.0	0.0	518.8	0.0	5787.6
	108	0.0	-446.1	0.0	561.2	0.0	2360.5
24	101	0.0	3906.2	0.0	575.9	0.0	5930.6
	108	0.0	-29.2	0.0	504.1	0.0	1644.7
25	101	0.0	2656.6	-161.7	1516.3	103.8	2009.9
	108	0.0	3183.9	-161.7	795.7	-103.8	-3025.0
26	101	0.0	1765.2	-161.7	682.2	103.8	1151.6
	108	0.0	2342.8	-161.7	541.8	-103.8	-2263.5
27	101	0.0	1701.2	-446.6	637.6	286.6	1085.0
	108	0.0	2291.2	-446.6	514.4	-286.6	-2220.8
28	101	0.0	1701.2	15.4	637.6	-9.9	1085.0
	108	0.0	2291.2	15.4	514.4	9.9	-2220.8
29	101	0.0	1701.2	-161.7	637.6	103.8	1085.0
	108	0.0	2291.2	-161.7	514.4	-103.8	-2220.8
30	101	0.0	1701.2	-161.7	637.6	103.8	1085.0
	108	0.0	2291.2	-161.7	514.4	-103.8	-2220.8
31	101	42793.2	1701.2	-161.7	637.6	103.8	1085.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	108	-42793.2	2291.2	-161.7	514.4	-103.8	-2220.8
32	101	-42793.2	1701.2	-161.7	637.6	103.8	1085.0
	108	42793.2	2291.2	-161.7	514.4	-103.8	-2220.8
33	101	0.0	1637.3	0.0	592.9	0.0	1018.4
	108	0.0	2239.7	0.0	487.1	0.0	-2178.0
34	101	0.0	1662.9	0.0	610.8	0.0	1045.1
	108	0.0	2260.3	0.0	498.0	0.0	-2195.1
35	101	0.0	1637.3	-142.4	592.9	91.4	1018.4
	108	0.0	2239.7	-142.4	487.1	-91.4	-2178.0
36	101	0.0	1637.3	88.6	592.9	-56.8	1018.4
	108	0.0	2239.7	88.6	487.1	56.8	-2178.0
37	101	0.0	1637.3	0.0	592.9	0.0	1018.4
	108	0.0	2239.7	0.0	487.1	0.0	-2178.0
38	101	0.0	1637.3	0.0	592.9	0.0	1018.4
	108	0.0	2239.7	0.0	487.1	0.0	-2178.0
39	101	53491.5	1637.3	0.0	592.9	0.0	1018.4
	108	-53491.5	2239.7	0.0	487.1	0.0	-2178.0
40	101	-53491.5	1637.3	0.0	592.9	0.0	1018.4
	108	53491.5	2239.7	0.0	487.1	0.0	-2178.0
41	101	0.0	1637.3	0.0	592.9	0.0	1018.4
	108	0.0	2239.7	0.0	487.1	0.0	-2178.0
42	101	0.0	1542.8	0.0	518.1	0.0	726.8
	108	0.0	2334.1	0.0	561.9	0.0	-2249.0
43	101	0.0	3413.5	0.0	492.8	0.0	4757.4
	108	0.0	463.5	0.0	587.2	0.0	922.3
44	101	0.0	1102.0	0.0	521.5	0.0	-3132.6
	108	0.0	2774.9	0.0	558.5	0.0	-3148.0
45	101	0.0	2972.7	0.0	496.3	0.0	898.0
	108	0.0	904.3	0.0	583.7	0.0	23.4
46	101	0.0	-381.4	0.0	608.2	0.0	-3352.1
	108	0.0	4258.3	0.0	471.8	0.0	-5579.0
47	101	0.0	-753.6	0.0	659.6	0.0	-3228.5
	108	0.0	4630.6	0.0	420.4	0.0	-6218.1
48	101	0.0	-2207.2	0.0	610.4	0.0	-8170.2
	108	0.0	6084.2	0.0	469.6	0.0	-8708.9
49	101	0.0	-2579.5	0.0	661.9	0.0	-8046.6
	108	0.0	6456.5	0.0	418.1	0.0	-9348.0
50	101	0.0	301.9	0.0	689.5	0.0	1138.8
	108	0.0	3575.1	0.0	390.5	0.0	-4379.3
51	101	0.0	2172.5	0.0	664.3	0.0	5169.5
	108	0.0	1704.4	0.0	415.7	0.0	-1208.0
52	101	0.0	-138.9	0.0	693.0	0.0	-2720.6
	108	0.0	4015.8	0.0	387.0	0.0	-5278.3
53	101	0.0	1731.7	0.0	667.7	0.0	1310.1
	108	0.0	2145.2	0.0	412.3	0.0	-2106.9
54	101	0.0	5854.1	0.0	523.9	0.0	10083.4
	108	0.0	-1977.2	0.0	556.1	0.0	4992.0
55	101	0.0	5481.8	0.0	575.3	0.0	10207.0
	108	0.0	-1604.9	0.0	504.7	0.0	4353.0
56	101	0.0	4028.2	0.0	526.2	0.0	5265.3
	108	0.0	-151.3	0.0	553.8	0.0	1862.1
57	101	0.0	3655.9	0.0	577.6	0.0	5388.9
	108	0.0	221.0	0.0	502.4	0.0	1223.0
58	101	0.0	1525.1	0.0	505.5	0.0	673.6
	108	0.0	2351.9	0.0	574.5	0.0	-2264.1
59	101	0.0	3713.4	0.0	475.9	0.0	5388.8
	108	0.0	163.5	0.0	604.1	0.0	1445.8
60	101	0.0	1012.3	0.0	509.5	0.0	-3834.8
	108	0.0	2864.7	0.0	570.5	0.0	-3310.6
61	101	0.0	3200.6	0.0	479.9	0.0	880.4
	108	0.0	676.4	0.0	600.1	0.0	399.2
62	101	0.0	-728.2	0.0	610.8	0.0	-4103.1
	108	0.0	4605.2	0.0	469.2	0.0	-6163.4
63	101	0.0	-1163.6	0.0	670.9	0.0	-3958.3
	108	0.0	5040.5	0.0	409.1	0.0	-6910.8
64	101	0.0	-2856.3	0.0	613.4	0.0	-9722.2
	108	0.0	6733.2	0.0	466.6	0.0	-9811.4
65	101	0.0	-3291.6	0.0	673.5	0.0	-9577.3
	108	0.0	7168.5	0.0	406.5	0.0	-10558.8
66	101	0.0	74.0	0.0	705.9	0.0	1156.5
	108	0.0	3803.0	0.0	374.1	0.0	-4755.2
67	101	0.0	2262.3	0.0	676.3	0.0	5871.6
	108	0.0	1614.6	0.0	403.7	0.0	-1045.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
68	101	0.0	-438.8	0.0	709.9	0.0	-3351.9
	108	0.0	4315.8	0.0	370.1	0.0	-5801.8
69	101	0.0	1749.5	0.0	680.3	0.0	1363.2
	108	0.0	2127.5	0.0	399.7	0.0	-2091.9
70	101	0.0	6566.2	0.0	512.3	0.0	11614.2
	108	0.0	-2689.2	0.0	567.7	0.0	6202.8
71	101	0.0	6130.8	0.0	572.4	0.0	11759.0
	108	0.0	-2253.9	0.0	507.6	0.0	5455.4
72	101	0.0	4438.2	0.0	514.9	0.0	5995.1
	108	0.0	-561.2	0.0	565.1	0.0	2554.8
73	101	0.0	4002.8	0.0	575.0	0.0	6140.0
	108	0.0	-125.9	0.0	505.0	0.0	1807.5
1	108	0.0	6805.6	-324.5	2705.3	278.5	7244.8
	114	0.0	4449.8	-324.5	2496.7	-278.5	-1178.6
2	108	0.0	4862.8	-324.5	1575.8	278.5	5334.1
	114	0.0	2916.2	-324.5	1178.2	-278.5	-321.5
3	108	0.0	4729.9	-896.1	1490.7	769.2	5201.6
	114	0.0	2817.5	-896.1	1101.3	-769.2	-277.2
4	108	0.0	4729.9	30.9	1490.7	-26.5	5201.6
	114	0.0	2817.5	30.9	1101.3	26.5	-277.2
5	108	0.0	4729.9	-324.5	1490.7	278.5	5201.6
	114	0.0	2817.5	-324.5	1101.3	-278.5	-277.2
6	108	0.0	4729.9	-324.5	1490.7	278.5	5201.6
	114	0.0	2817.5	-324.5	1101.3	-278.5	-277.2
7	108	64189.8	4729.9	-324.5	1490.7	278.5	5201.6
	114	-64189.8	2817.5	-324.5	1101.3	-278.5	-277.2
8	108	-64189.8	4729.9	-324.5	1490.7	278.5	5201.6
	114	64189.8	2817.5	-324.5	1101.3	-278.5	-277.2
9	108	0.0	2506.3	0.0	1037.9	0.0	1846.8
	114	0.0	2679.7	0.0	582.1	0.0	-2301.9
10	108	0.0	4145.7	0.0	1004.3	0.0	5669.8
	114	0.0	1040.4	0.0	615.7	0.0	2317.7
11	108	0.0	1281.9	0.0	1024.2	0.0	-1068.4
	114	0.0	3904.1	0.0	595.8	0.0	-5684.3
12	108	0.0	2921.2	0.0	990.5	0.0	2754.6
	114	0.0	2264.8	0.0	629.5	0.0	-1064.7
13	108	0.0	1275.7	0.0	1026.8	0.0	-1037.9
	114	0.0	3910.3	0.0	593.2	0.0	-5748.7
14	108	0.0	1600.5	0.0	981.2	0.0	-271.2
	114	0.0	3585.5	0.0	638.8	0.0	-4840.0
15	108	0.0	-554.8	0.0	1007.4	0.0	-5314.9
	114	0.0	5740.8	0.0	612.6	0.0	-10896.4
16	108	0.0	-230.0	0.0	961.8	0.0	-4548.2
	114	0.0	5416.0	0.0	658.2	0.0	-9987.7
17	108	0.0	3589.0	0.0	886.0	0.0	4402.5
	114	0.0	1597.1	0.0	734.0	0.0	727.1
18	108	0.0	5228.3	0.0	852.3	0.0	8225.5
	114	0.0	-42.3	0.0	767.7	0.0	5346.8
19	108	0.0	2364.6	0.0	872.2	0.0	1487.3
	114	0.0	2821.5	0.0	747.8	0.0	-2655.3
20	108	0.0	4003.9	0.0	838.6	0.0	5310.3
	114	0.0	1182.1	0.0	781.4	0.0	1964.4
21	108	0.0	6740.2	0.0	914.6	0.0	11705.3
	114	0.0	-1554.2	0.0	705.4	0.0	9650.1
22	108	0.0	7065.0	0.0	869.1	0.0	12472.0
	114	0.0	-1879.0	0.0	750.9	0.0	10558.8
23	108	0.0	4909.7	0.0	895.3	0.0	7428.3
	114	0.0	276.4	0.0	724.7	0.0	4502.4
24	108	0.0	5234.5	0.0	849.7	0.0	8195.0
	114	0.0	-48.4	0.0	770.3	0.0	5411.1
25	108	0.0	4727.6	-216.3	1804.8	185.7	5029.0
	114	0.0	3085.0	-216.3	1663.2	-185.7	-799.3
26	108	0.0	3432.4	-216.3	1051.8	185.7	3755.2
	114	0.0	2062.6	-216.3	784.2	-185.7	-227.9
27	108	0.0	3343.8	-597.4	995.0	512.8	3666.9
	114	0.0	1996.8	-597.4	733.0	-512.8	-198.4
28	108	0.0	3343.8	20.6	995.0	-17.7	3666.9
	114	0.0	1996.8	20.6	733.0	17.7	-198.4
29	108	0.0	3343.8	-216.3	995.0	185.7	3666.9
	114	0.0	1996.8	-216.3	733.0	-185.7	-198.4
30	108	0.0	3343.8	-216.3	995.0	185.7	3666.9
	114	0.0	1996.8	-216.3	733.0	-185.7	-198.4

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
31	108	42793.2	3343.8	-216.3	995.0	185.7	3666.9
	114	-42793.2	1996.8	-216.3	733.0	-185.7	-198.4
32	108	-42793.2	3343.8	-216.3	995.0	185.7	3666.9
	114	42793.2	1996.8	-216.3	733.0	-185.7	-198.4
33	108	0.0	3255.1	0.0	938.2	0.0	3578.6
	114	0.0	1930.9	0.0	681.8	0.0	-168.8
34	108	0.0	3290.6	0.0	961.0	0.0	3613.9
	114	0.0	1957.3	0.0	702.2	0.0	-180.6
35	108	0.0	3255.1	-190.5	938.2	163.6	3578.6
	114	0.0	1930.9	-190.5	681.8	-163.6	-168.8
36	108	0.0	3255.1	118.4	938.2	-101.7	3578.6
	114	0.0	1930.9	118.4	681.8	101.7	-168.8
37	108	0.0	3255.1	0.0	938.2	0.0	3578.6
	114	0.0	1930.9	0.0	681.8	0.0	-168.8
38	108	0.0	3255.1	0.0	938.2	0.0	3578.6
	114	0.0	1930.9	0.0	681.8	0.0	-168.8
39	108	53491.5	3255.1	0.0	938.2	0.0	3578.6
	114	-53491.5	1930.9	0.0	681.8	0.0	-168.8
40	108	-53491.5	3255.1	0.0	938.2	0.0	3578.6
	114	53491.5	1930.9	0.0	681.8	0.0	-168.8
41	108	0.0	3255.1	0.0	938.2	0.0	3578.6
	114	0.0	1930.9	0.0	681.8	0.0	-168.8
42	108	0.0	2590.4	0.0	1028.0	0.0	2041.8
	114	0.0	2595.7	0.0	592.0	0.0	-2063.5
43	108	0.0	4061.2	0.0	997.7	0.0	5471.9
	114	0.0	1124.9	0.0	622.3	0.0	2081.2
44	108	0.0	1481.6	0.0	1015.6	0.0	-598.6
	114	0.0	3704.5	0.0	604.4	0.0	-5125.6
45	108	0.0	2952.4	0.0	985.3	0.0	2831.4
	114	0.0	2233.6	0.0	634.7	0.0	-981.0
46	108	0.0	1493.1	0.0	1018.0	0.0	-531.0
	114	0.0	3692.9	0.0	602.0	0.0	-5135.7
47	108	0.0	1783.4	0.0	977.0	0.0	154.1
	114	0.0	3402.7	0.0	643.0	0.0	-4323.7
48	108	0.0	-175.9	0.0	1000.5	0.0	-4430.5
	114	0.0	5361.9	0.0	619.5	0.0	-9829.3
49	108	0.0	114.4	0.0	959.5	0.0	-3745.4
	114	0.0	5071.7	0.0	660.5	0.0	-9017.2
50	108	0.0	3557.8	0.0	891.2	0.0	4325.7
	114	0.0	1628.2	0.0	728.8	0.0	643.4
51	108	0.0	5028.6	0.0	860.9	0.0	7755.7
	114	0.0	157.4	0.0	759.1	0.0	4788.1
52	108	0.0	2449.1	0.0	878.8	0.0	1685.2
	114	0.0	2737.0	0.0	741.2	0.0	-2418.7
53	108	0.0	3919.9	0.0	848.5	0.0	5115.3
	114	0.0	1266.2	0.0	771.5	0.0	1725.9
54	108	0.0	6395.8	0.0	917.0	0.0	10902.5
	114	0.0	-1209.8	0.0	703.0	0.0	8679.7
55	108	0.0	6686.1	0.0	876.0	0.0	11587.6
	114	0.0	-1500.0	0.0	744.0	0.0	9491.8
56	108	0.0	4726.8	0.0	899.5	0.0	7003.0
	114	0.0	459.2	0.0	720.5	0.0	3986.1
57	108	0.0	5017.1	0.0	858.5	0.0	7688.2
	114	0.0	169.0	0.0	761.5	0.0	4798.2
58	108	0.0	2476.7	0.0	1043.2	0.0	1779.0
	114	0.0	2709.4	0.0	576.8	0.0	-2387.4
59	108	0.0	4197.3	0.0	1007.8	0.0	5791.6
	114	0.0	988.8	0.0	612.2	0.0	2461.1
60	108	0.0	1181.9	0.0	1028.7	0.0	-1304.5
	114	0.0	4004.2	0.0	591.3	0.0	-5963.4
61	108	0.0	2902.5	0.0	993.2	0.0	2708.0
	114	0.0	2283.6	0.0	626.8	0.0	-1114.9
62	108	0.0	1190.9	0.0	1031.5	0.0	-1235.9
	114	0.0	3995.1	0.0	588.5	0.0	-5987.8
63	108	0.0	1530.2	0.0	983.5	0.0	-434.9
	114	0.0	3655.8	0.0	636.5	0.0	-5038.4
64	108	0.0	-755.3	0.0	1011.0	0.0	-5783.1
	114	0.0	5941.3	0.0	609.0	0.0	-11460.8
65	108	0.0	-416.0	0.0	963.1	0.0	-4982.1
	114	0.0	5602.0	0.0	656.9	0.0	-10511.4
66	108	0.0	3607.8	0.0	883.2	0.0	4449.1
	114	0.0	1578.3	0.0	736.8	0.0	777.3
67	108	0.0	5328.4	0.0	847.8	0.0	8461.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	114	0.0	-142.3	0.0	772.2	0.0	5625.8
68	108	0.0	2313.0	0.0	868.7	0.0	1365.5
	114	0.0	2873.1	0.0	751.3	0.0	-2798.7
69	108	0.0	4033.5	0.0	833.3	0.0	5378.1
	114	0.0	1152.5	0.0	786.7	0.0	2049.8
70	108	0.0	6926.2	0.0	913.4	0.0	12139.2
	114	0.0	-1740.1	0.0	706.6	0.0	10173.9
71	108	0.0	7265.5	0.0	865.4	0.0	12940.2
	114	0.0	-2079.5	0.0	754.6	0.0	11123.3
72	108	0.0	4980.0	0.0	893.0	0.0	7592.0
	114	0.0	206.0	0.0	727.0	0.0	4700.8
73	108	0.0	5319.3	0.0	845.0	0.0	8393.0
	114	0.0	-133.3	0.0	775.0	0.0	5650.2
1	103	0.0	1121.7	0.0	189.1	0.0	3619.8
	109	0.0	1130.6	0.0	-189.1	0.0	-3636.8
2	103	0.0	558.8	0.0	193.9	0.0	1408.1
	109	0.0	1693.5	0.0	-193.9	0.0	-3592.3
3	103	0.0	522.1	0.0	189.2	0.0	1261.9
	109	0.0	1730.2	0.0	-189.2	0.0	-3587.4
4	103	0.0	522.1	0.0	189.2	0.0	1261.9
	109	0.0	1730.2	0.0	-189.2	0.0	-3587.4
5	103	0.0	522.1	0.0	189.2	0.0	1261.9
	109	0.0	1730.2	0.0	-189.2	0.0	-3587.4
6	103	0.0	522.1	0.0	189.2	0.0	1261.9
	109	0.0	1730.2	0.0	-189.2	0.0	-3587.4
7	103	64189.8	522.1	0.0	189.2	0.0	1261.9
	109	-64189.8	1730.2	0.0	-189.2	0.0	-3587.4
8	103	-64189.8	522.1	0.0	189.2	0.0	1261.9
	109	64189.8	1730.2	0.0	-189.2	0.0	-3587.4
9	103	0.0	-31.7	0.0	529.1	0.0	32.5
	109	0.0	1764.2	0.0	-529.1	0.0	-3489.1
10	103	0.0	1564.7	0.0	496.9	0.0	2600.9
	109	0.0	167.8	0.0	-496.9	0.0	88.6
11	103	0.0	-199.6	0.0	465.4	0.0	-190.3
	109	0.0	1932.1	0.0	-465.4	0.0	-3911.5
12	103	0.0	1396.8	0.0	433.2	0.0	2378.1
	109	0.0	335.7	0.0	-433.2	0.0	-333.8
13	103	0.0	-1772.8	0.0	327.6	0.0	-2739.9
	109	0.0	3505.3	0.0	-327.6	0.0	-7420.3
14	103	0.0	-1953.2	0.0	113.9	0.0	-3031.4
	109	0.0	3685.7	0.0	-113.9	0.0	-7824.0
15	103	0.0	-2604.4	0.0	243.5	0.0	-4091.0
	109	0.0	4336.9	0.0	-243.5	0.0	-9270.4
16	103	0.0	-2784.8	0.0	29.7	0.0	-4382.4
	109	0.0	4517.3	0.0	-29.7	0.0	-9674.2
17	103	0.0	-633.1	0.0	-183.3	0.0	-939.0
	109	0.0	2365.6	0.0	183.3	0.0	-4835.0
18	103	0.0	963.3	0.0	-215.6	0.0	1629.4
	109	0.0	769.2	0.0	215.6	0.0	-1257.3
19	103	0.0	-801.0	0.0	-247.0	0.0	-1161.9
	109	0.0	2533.5	0.0	247.0	0.0	-5257.4
20	103	0.0	795.4	0.0	-279.2	0.0	1406.5
	109	0.0	937.1	0.0	279.2	0.0	-1679.7
21	103	0.0	3548.5	0.0	220.1	0.0	5821.5
	109	0.0	-1816.0	0.0	-220.1	0.0	4505.4
22	103	0.0	3368.1	0.0	6.4	0.0	5530.0
	109	0.0	-1635.6	0.0	-6.4	0.0	4101.6
23	103	0.0	2716.9	0.0	136.0	0.0	4470.4
	109	0.0	-984.4	0.0	-136.0	0.0	2655.2
24	103	0.0	2536.5	0.0	-77.8	0.0	4178.9
	109	0.0	-804.0	0.0	77.8	0.0	2251.5
25	103	0.0	806.1	0.0	127.9	0.0	2388.9
	109	0.0	926.4	0.0	-127.9	0.0	-2620.6
26	103	0.0	430.8	0.0	131.2	0.0	914.5
	109	0.0	1301.7	0.0	-131.2	0.0	-2591.0
27	103	0.0	406.3	0.0	128.0	0.0	817.0
	109	0.0	1326.2	0.0	-128.0	0.0	-2587.7
28	103	0.0	406.3	0.0	128.0	0.0	817.0
	109	0.0	1326.2	0.0	-128.0	0.0	-2587.7
29	103	0.0	406.3	0.0	128.0	0.0	817.0
	109	0.0	1326.2	0.0	-128.0	0.0	-2587.7
30	103	0.0	406.3	0.0	128.0	0.0	817.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	109	0.0	1326.2	0.0	-128.0	0.0	-2587.7
31	103	42793.2	406.3	0.0	128.0	0.0	817.0
	109	-42793.2	1326.2	0.0	-128.0	0.0	-2587.7
32	103	-42793.2	406.3	0.0	128.0	0.0	817.0
	109	42793.2	1326.2	0.0	-128.0	0.0	-2587.7
33	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
34	103	0.0	391.7	0.0	126.2	0.0	758.5
	109	0.0	1340.8	0.0	-126.2	0.0	-2585.7
35	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
36	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
37	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
38	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
39	103	53491.5	381.9	0.0	124.9	0.0	719.5
	109	-53491.5	1350.6	0.0	-124.9	0.0	-2584.4
40	103	-53491.5	381.9	0.0	124.9	0.0	719.5
	109	53491.5	1350.6	0.0	-124.9	0.0	-2584.4
41	103	0.0	381.9	0.0	124.9	0.0	719.5
	109	0.0	1350.6	0.0	-124.9	0.0	-2584.4
42	103	0.0	11.1	0.0	488.9	0.0	103.4
	109	0.0	1721.4	0.0	-488.9	0.0	-3395.6
43	103	0.0	1447.1	0.0	460.1	0.0	2413.7
	109	0.0	285.4	0.0	-460.1	0.0	-177.2
44	103	0.0	-145.3	0.0	431.3	0.0	-1150.7
	109	0.0	1877.8	0.0	-431.3	0.0	-3787.7
45	103	0.0	1290.7	0.0	402.6	0.0	1159.6
	109	0.0	441.8	0.0	-402.6	0.0	-569.3
46	103	0.0	-1552.3	0.0	307.1	0.0	-2385.5
	109	0.0	3284.8	0.0	-307.1	0.0	-6925.7
47	103	0.0	-1713.7	0.0	114.6	0.0	-2332.7
	109	0.0	3446.2	0.0	-114.6	0.0	-7286.8
48	103	0.0	-2309.3	0.0	231.2	0.0	-3929.2
	109	0.0	4041.8	0.0	-231.2	0.0	-8609.8
49	103	0.0	-2470.7	0.0	38.7	0.0	-3876.3
	109	0.0	4203.2	0.0	-38.7	0.0	-8971.0
50	103	0.0	-526.9	0.0	-152.7	0.0	279.4
	109	0.0	2259.4	0.0	152.7	0.0	-4599.5
51	103	0.0	909.1	0.0	-181.5	0.0	2589.7
	109	0.0	823.4	0.0	181.5	0.0	-1381.1
52	103	0.0	-683.4	0.0	-210.2	0.0	-974.6
	109	0.0	2415.9	0.0	210.2	0.0	-4991.6
53	103	0.0	752.7	0.0	-239.0	0.0	1335.6
	109	0.0	979.8	0.0	239.0	0.0	-1773.3
54	103	0.0	3234.4	0.0	211.1	0.0	5315.4
	109	0.0	-1501.9	0.0	-211.1	0.0	3802.2
55	103	0.0	3073.0	0.0	18.7	0.0	5368.2
	109	0.0	-1340.5	0.0	-18.7	0.0	3441.0
56	103	0.0	2477.4	0.0	135.3	0.0	3771.8
	109	0.0	-744.9	0.0	-135.3	0.0	2118.0
57	103	0.0	2316.0	0.0	-57.2	0.0	3824.6
	109	0.0	-583.5	0.0	57.2	0.0	1756.9
58	103	0.0	-52.0	0.0	550.4	0.0	-1.5
	109	0.0	1784.5	0.0	-550.4	0.0	-3533.6
59	103	0.0	1627.0	0.0	516.7	0.0	2699.7
	109	0.0	105.5	0.0	-516.7	0.0	229.3
60	103	0.0	-234.2	0.0	483.1	0.0	-1466.8
	109	0.0	1966.7	0.0	-483.1	0.0	-3990.4
61	103	0.0	1444.8	0.0	449.4	0.0	1234.4
	109	0.0	287.7	0.0	-449.4	0.0	-227.5
62	103	0.0	-1880.5	0.0	337.9	0.0	-2912.5
	109	0.0	3613.0	0.0	-337.9	0.0	-7662.3
63	103	0.0	-2069.2	0.0	113.0	0.0	-2850.7
	109	0.0	3801.7	0.0	-113.0	0.0	-8084.6
64	103	0.0	-2763.7	0.0	249.1	0.0	-4714.2
	109	0.0	4496.2	0.0	-249.1	0.0	-9627.1
65	103	0.0	-2952.4	0.0	24.2	0.0	-4652.4
	109	0.0	4684.9	0.0	-24.2	0.0	-10049.5
66	103	0.0	-681.1	0.0	-199.6	0.0	204.6
	109	0.0	2413.6	0.0	199.6	0.0	-4941.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
67	103	0.0	997.9	0.0	-233.2	0.0	2905.8
	109	0.0	734.6	0.0	233.2	0.0	-1178.4
68	103	0.0	-863.2	0.0	-266.8	0.0	-1260.7
	109	0.0	2595.7	0.0	266.8	0.0	-5398.1
69	103	0.0	815.7	0.0	-300.5	0.0	1440.5
	109	0.0	916.8	0.0	300.5	0.0	-1635.2
70	103	0.0	3716.1	0.0	225.7	0.0	6091.4
	109	0.0	-1983.6	0.0	-225.7	0.0	4880.6
71	103	0.0	3527.4	0.0	0.7	0.0	6153.3
	109	0.0	-1794.9	0.0	-0.7	0.0	4458.3
72	103	0.0	2832.9	0.0	136.9	0.0	4289.7
	109	0.0	-1100.4	0.0	-136.9	0.0	2915.8
73	103	0.0	2644.2	0.0	-88.1	0.0	4351.6
	109	0.0	-911.7	0.0	88.1	0.0	2493.5
1	109	0.0	1664.4	0.0	-44.7	0.0	2849.3
	115	0.0	1348.3	0.0	44.7	0.0	-2035.3
2	109	0.0	1891.4	0.0	-61.4	0.0	2826.4
	115	0.0	1121.3	0.0	61.4	0.0	-843.5
3	109	0.0	1907.9	0.0	-60.7	0.0	2832.7
	115	0.0	1104.8	0.0	60.7	0.0	-764.6
4	109	0.0	1907.9	0.0	-60.7	0.0	2832.7
	115	0.0	1104.8	0.0	60.7	0.0	-764.6
5	109	0.0	1907.9	0.0	-60.7	0.0	2832.7
	115	0.0	1104.8	0.0	60.7	0.0	-764.6
6	109	0.0	1907.9	0.0	-60.7	0.0	2832.7
	115	0.0	1104.8	0.0	60.7	0.0	-764.6
7	109	64189.8	1907.9	0.0	-60.7	0.0	2832.7
	115	-64189.8	1104.8	0.0	60.7	0.0	-764.6
8	109	-64189.8	1907.9	0.0	-60.7	0.0	2832.7
	115	64189.8	1104.8	0.0	60.7	0.0	-764.6
9	109	0.0	875.0	0.0	-286.0	0.0	345.7
	115	0.0	1442.5	0.0	286.0	0.0	-1811.7
10	109	0.0	2134.2	0.0	-319.7	0.0	4027.9
	115	0.0	183.3	0.0	319.7	0.0	991.3
11	109	0.0	360.5	0.0	-345.0	0.0	-1164.3
	115	0.0	1957.0	0.0	345.0	0.0	-2947.0
12	109	0.0	1619.7	0.0	-378.7	0.0	2517.9
	115	0.0	697.8	0.0	378.7	0.0	-144.0
13	109	0.0	-313.4	0.0	-27.2	0.0	-3146.4
	115	0.0	2630.9	0.0	27.2	0.0	-4436.5
14	109	0.0	-176.9	0.0	149.1	0.0	-2747.7
	115	0.0	2494.4	0.0	-149.1	0.0	-4131.1
15	109	0.0	-1071.1	0.0	-113.8	0.0	-5333.8
	115	0.0	3388.6	0.0	113.8	0.0	-6149.7
16	109	0.0	-934.6	0.0	62.5	0.0	-4935.1
	115	0.0	3252.1	0.0	-62.5	0.0	-5844.3
17	109	0.0	1329.8	0.0	301.7	0.0	1674.6
	115	0.0	987.7	0.0	-301.7	0.0	-793.5
18	109	0.0	2589.1	0.0	268.1	0.0	5356.9
	115	0.0	-271.6	0.0	-268.1	0.0	2009.5
19	109	0.0	815.3	0.0	242.7	0.0	164.7
	115	0.0	1502.2	0.0	-242.7	0.0	-1928.8
20	109	0.0	2074.6	0.0	209.1	0.0	3846.9
	115	0.0	242.9	0.0	-209.1	0.0	874.2
21	109	0.0	3884.2	0.0	-139.5	0.0	9127.7
	115	0.0	-1566.7	0.0	139.5	0.0	4906.8
22	109	0.0	4020.6	0.0	36.8	0.0	9526.4
	115	0.0	-1703.1	0.0	-36.8	0.0	5212.3
23	109	0.0	3126.5	0.0	-226.1	0.0	6940.3
	115	0.0	-809.0	0.0	226.1	0.0	3193.6
24	109	0.0	3262.9	0.0	-49.8	0.0	7339.0
	115	0.0	-945.4	0.0	49.8	0.0	3499.0
25	109	0.0	1301.4	0.0	-28.3	0.0	2103.2
	115	0.0	1016.1	0.0	28.3	0.0	-1368.5
26	109	0.0	1452.7	0.0	-39.5	0.0	2087.9
	115	0.0	864.8	0.0	39.5	0.0	-573.9
27	109	0.0	1463.8	0.0	-39.0	0.0	2092.1
	115	0.0	853.7	0.0	39.0	0.0	-521.3
28	109	0.0	1463.8	0.0	-39.0	0.0	2092.1
	115	0.0	853.7	0.0	39.0	0.0	-521.3
29	109	0.0	1463.8	0.0	-39.0	0.0	2092.1
	115	0.0	853.7	0.0	39.0	0.0	-521.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
30	109	0.0	1463.8	0.0	-39.0	0.0	2092.1
	115	0.0	853.7	0.0	39.0	0.0	-521.3
31	109	42793.2	1463.8	0.0	-39.0	0.0	2092.1
	115	-42793.2	853.7	0.0	39.0	0.0	-521.3
32	109	-42793.2	1463.8	0.0	-39.0	0.0	2092.1
	115	42793.2	853.7	0.0	39.0	0.0	-521.3
33	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
34	109	0.0	1470.4	0.0	-38.7	0.0	2094.6
	115	0.0	847.1	0.0	38.7	0.0	-489.8
35	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
36	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
37	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
38	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
39	109	53491.5	1474.8	0.0	-38.5	0.0	2096.3
	115	-53491.5	842.7	0.0	38.5	0.0	-468.7
40	109	-53491.5	1474.8	0.0	-38.5	0.0	2096.3
	115	53491.5	842.7	0.0	38.5	0.0	-468.7
41	109	0.0	1474.8	0.0	-38.5	0.0	2096.3
	115	0.0	842.7	0.0	38.5	0.0	-468.7
42	109	0.0	937.5	0.0	-261.5	0.0	528.1
	115	0.0	1380.0	0.0	261.5	0.0	-1671.9
43	109	0.0	2070.3	0.0	-291.7	0.0	3840.7
	115	0.0	247.2	0.0	291.7	0.0	849.5
44	109	0.0	472.4	0.0	-314.8	0.0	-837.1
	115	0.0	1845.1	0.0	314.8	0.0	-2697.8
45	109	0.0	1605.2	0.0	-344.9	0.0	2475.5
	115	0.0	712.3	0.0	344.9	0.0	-176.4
46	109	0.0	-130.3	0.0	-28.7	0.0	-2610.2
	115	0.0	2447.8	0.0	28.7	0.0	-4030.0
47	109	0.0	-8.3	0.0	130.1	0.0	-2253.5
	115	0.0	2325.8	0.0	-130.1	0.0	-3756.8
48	109	0.0	-818.2	0.0	-106.7	0.0	-4595.9
	115	0.0	3135.7	0.0	106.7	0.0	-5585.4
49	109	0.0	-696.1	0.0	52.2	0.0	-4239.2
	115	0.0	3013.6	0.0	-52.2	0.0	-5312.2
50	109	0.0	1344.3	0.0	267.9	0.0	1717.0
	115	0.0	973.2	0.0	-267.9	0.0	-761.1
51	109	0.0	2477.2	0.0	237.8	0.0	5029.6
	115	0.0	-159.7	0.0	-237.8	0.0	1760.4
52	109	0.0	879.3	0.0	214.7	0.0	351.9
	115	0.0	1438.2	0.0	-214.7	0.0	-1787.0
53	109	0.0	2012.1	0.0	184.6	0.0	3664.5
	115	0.0	305.4	0.0	-184.6	0.0	734.4
54	109	0.0	3645.7	0.0	-129.1	0.0	8431.8
	115	0.0	-1328.2	0.0	129.1	0.0	4374.7
55	109	0.0	3767.8	0.0	29.7	0.0	8788.5
	115	0.0	-1450.3	0.0	-29.7	0.0	4648.0
56	109	0.0	2957.8	0.0	-207.1	0.0	6446.0
	115	0.0	-640.3	0.0	207.1	0.0	2819.3
57	109	0.0	3079.9	0.0	-48.3	0.0	6802.7
	115	0.0	-762.4	0.0	48.3	0.0	3092.6
58	109	0.0	846.4	0.0	-299.2	0.0	262.2
	115	0.0	1471.1	0.0	299.2	0.0	-1875.9
59	109	0.0	2170.8	0.0	-334.4	0.0	4135.2
	115	0.0	146.7	0.0	334.4	0.0	1072.1
60	109	0.0	303.0	0.0	-361.4	0.0	-1332.6
	115	0.0	2014.5	0.0	361.4	0.0	-3074.4
61	109	0.0	1627.5	0.0	-396.7	0.0	2540.4
	115	0.0	690.0	0.0	396.7	0.0	-126.4
62	109	0.0	-402.6	0.0	-27.0	0.0	-3408.4
	115	0.0	2720.1	0.0	27.0	0.0	-4634.2
63	109	0.0	-259.9	0.0	158.7	0.0	-2991.4
	115	0.0	2577.4	0.0	-158.7	0.0	-4314.7
64	109	0.0	-1205.4	0.0	-118.2	0.0	-5726.0
	115	0.0	3522.9	0.0	118.2	0.0	-6449.5
65	109	0.0	-1062.7	0.0	67.5	0.0	-5309.0
	115	0.0	3380.2	0.0	-67.5	0.0	-6130.0
66	109	0.0	1322.0	0.0	319.7	0.0	1652.2

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	115	0.0	995.5	0.0	-319.7	0.0	-811.1
67	109	0.0	2646.5	0.0	284.4	0.0	5525.2
	115	0.0	-329.0	0.0	-284.4	0.0	2137.0
68	109	0.0	778.7	0.0	257.4	0.0	57.3
	115	0.0	1538.8	0.0	-257.4	0.0	-2009.6
69	109	0.0	2103.2	0.0	222.2	0.0	3930.3
	115	0.0	214.3	0.0	-222.2	0.0	938.4
70	109	0.0	4012.3	0.0	-144.4	0.0	9501.6
	115	0.0	-1694.8	0.0	144.4	0.0	5192.6
71	109	0.0	4155.0	0.0	41.2	0.0	9918.6
	115	0.0	-1837.5	0.0	-41.2	0.0	5512.0
72	109	0.0	3209.5	0.0	-235.7	0.0	7184.0
	115	0.0	-892.0	0.0	235.7	0.0	3377.3
73	109	0.0	3352.2	0.0	-50.0	0.0	7600.9
	115	0.0	-1034.7	0.0	50.0	0.0	3696.7
1	104	0.0	1012.6	0.0	-43.1	0.0	3733.4
	110	0.0	1239.6	0.0	43.1	0.0	-4170.3
2	104	0.0	521.1	0.0	-60.6	0.0	1506.6
	110	0.0	1731.1	0.0	60.6	0.0	-3835.9
3	104	0.0	493.2	0.0	-58.8	0.0	1365.4
	110	0.0	1759.0	0.0	58.8	0.0	-3802.0
4	104	0.0	493.2	0.0	-58.8	0.0	1365.4
	110	0.0	1759.0	0.0	58.8	0.0	-3802.0
5	104	0.0	493.2	0.0	-58.8	0.0	1365.4
	110	0.0	1759.0	0.0	58.8	0.0	-3802.0
6	104	0.0	493.2	0.0	-58.8	0.0	1365.4
	110	0.0	1759.0	0.0	58.8	0.0	-3802.0
7	104	64189.8	493.2	0.0	-58.8	0.0	1365.4
	110	-64189.8	1759.0	0.0	58.8	0.0	-3802.0
8	104	-64189.8	493.2	0.0	-58.8	0.0	1365.4
	110	64189.8	1759.0	0.0	58.8	0.0	-3802.0
9	104	0.0	-459.0	0.0	291.0	0.0	-501.9
	110	0.0	2191.5	0.0	-291.0	0.0	-4600.6
10	104	0.0	1122.9	0.0	281.2	0.0	1972.2
	110	0.0	609.6	0.0	-281.2	0.0	-984.0
11	104	0.0	-660.8	0.0	217.2	0.0	-819.0
	110	0.0	2393.3	0.0	-217.2	0.0	-5060.2
12	104	0.0	921.2	0.0	207.4	0.0	1655.1
	110	0.0	811.3	0.0	-207.4	0.0	-1443.7
13	104	0.0	-2241.1	0.0	121.8	0.0	-3287.4
	110	0.0	3973.6	0.0	-121.8	0.0	-8676.0
14	104	0.0	-2167.7	0.0	-50.5	0.0	-3172.0
	110	0.0	3900.2	0.0	50.5	0.0	-8508.6
15	104	0.0	-2398.7	0.0	7.3	0.0	-3536.9
	110	0.0	4131.2	0.0	-7.3	0.0	-9033.0
16	104	0.0	-2325.2	0.0	-165.0	0.0	-3421.5
	110	0.0	4057.7	0.0	165.0	0.0	-8865.6
17	104	0.0	-214.2	0.0	-283.3	0.0	-117.1
	110	0.0	1946.7	0.0	283.3	0.0	-4042.7
18	104	0.0	1367.8	0.0	-293.1	0.0	2357.0
	110	0.0	364.7	0.0	293.1	0.0	-426.2
19	104	0.0	-416.0	0.0	-357.1	0.0	-434.2
	110	0.0	2148.5	0.0	357.1	0.0	-4502.4
20	104	0.0	1166.0	0.0	-366.9	0.0	2039.9
	110	0.0	566.5	0.0	366.9	0.0	-885.8
21	104	0.0	3032.2	0.0	89.1	0.0	4959.5
	110	0.0	-1299.7	0.0	-89.1	0.0	3379.2
22	104	0.0	3105.6	0.0	-83.1	0.0	5074.9
	110	0.0	-1373.1	0.0	83.1	0.0	3546.6
23	104	0.0	2874.6	0.0	-25.4	0.0	4710.0
	110	0.0	-1142.1	0.0	25.4	0.0	3022.2
24	104	0.0	2948.1	0.0	-197.6	0.0	4825.4
	110	0.0	-1215.6	0.0	197.6	0.0	3189.6
25	104	0.0	718.3	0.0	-28.7	0.0	2441.8
	110	0.0	1014.2	0.0	28.7	0.0	-3011.3
26	104	0.0	390.6	0.0	-40.3	0.0	957.2
	110	0.0	1341.9	0.0	40.3	0.0	-2788.4
27	104	0.0	372.1	0.0	-39.1	0.0	863.1
	110	0.0	1360.4	0.0	39.1	0.0	-2765.8
28	104	0.0	372.1	0.0	-39.1	0.0	863.1
	110	0.0	1360.4	0.0	39.1	0.0	-2765.8
29	104	0.0	372.1	0.0	-39.1	0.0	863.1

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	110	0.0	1360.4	0.0	39.1	0.0	-2765.8
30	104	0.0	372.1	0.0	-39.1	0.0	863.1
	110	0.0	1360.4	0.0	39.1	0.0	-2765.8
31	104	42793.2	372.1	0.0	-39.1	0.0	863.1
	110	-42793.2	1360.4	0.0	39.1	0.0	-2765.8
32	104	-42793.2	372.1	0.0	-39.1	0.0	863.1
	110	42793.2	1360.4	0.0	39.1	0.0	-2765.8
33	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
34	104	0.0	360.9	0.0	-38.4	0.0	806.6
	110	0.0	1371.6	0.0	38.4	0.0	-2752.2
35	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
36	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
37	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
38	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
39	104	53491.5	353.5	0.0	-37.9	0.0	769.0
	110	-53491.5	1379.0	0.0	37.9	0.0	-2743.2
40	104	-53491.5	353.5	0.0	-37.9	0.0	769.0
	110	53491.5	1379.0	0.0	37.9	0.0	-2743.2
41	104	0.0	353.5	0.0	-37.9	0.0	769.0
	110	0.0	1379.0	0.0	37.9	0.0	-2743.2
42	104	0.0	-378.0	0.0	258.1	0.0	-375.0
	110	0.0	2110.5	0.0	-258.1	0.0	-4415.2
43	104	0.0	1046.6	0.0	249.5	0.0	1852.9
	110	0.0	685.9	0.0	-249.5	0.0	-1158.5
44	104	0.0	-560.1	0.0	191.8	0.0	-661.3
	110	0.0	2292.6	0.0	-191.8	0.0	-4830.1
45	104	0.0	864.5	0.0	183.1	0.0	1566.7
	110	0.0	868.0	0.0	-183.1	0.0	-1573.3
46	104	0.0	-1982.4	0.0	105.2	0.0	-2883.0
	110	0.0	3714.9	0.0	-105.2	0.0	-8084.5
47	104	0.0	-1916.3	0.0	-50.0	0.0	-2779.1
	110	0.0	3648.8	0.0	50.0	0.0	-7933.8
48	104	0.0	-2125.4	0.0	2.9	0.0	-3109.4
	110	0.0	3857.9	0.0	-2.9	0.0	-8408.4
49	104	0.0	-2059.3	0.0	-152.2	0.0	-3005.5
	110	0.0	3791.8	0.0	152.2	0.0	-8257.8
50	104	0.0	-157.6	0.0	-259.0	0.0	-28.7
	110	0.0	1890.1	0.0	259.0	0.0	-3913.1
51	104	0.0	1267.0	0.0	-267.6	0.0	2199.3
	110	0.0	465.5	0.0	267.6	0.0	-656.3
52	104	0.0	-339.7	0.0	-325.4	0.0	-314.9
	110	0.0	2072.2	0.0	325.4	0.0	-4327.9
53	104	0.0	1084.9	0.0	-334.0	0.0	1913.0
	110	0.0	647.6	0.0	334.0	0.0	-1071.2
54	104	0.0	2766.2	0.0	76.4	0.0	4543.5
	110	0.0	-1033.7	0.0	-76.4	0.0	2771.4
55	104	0.0	2832.3	0.0	-78.8	0.0	4647.4
	110	0.0	-1099.8	0.0	78.8	0.0	2922.0
56	104	0.0	2623.3	0.0	-25.9	0.0	4317.1
	110	0.0	-890.8	0.0	25.9	0.0	2447.4
57	104	0.0	2689.4	0.0	-181.0	0.0	4421.0
	110	0.0	-956.9	0.0	181.0	0.0	2598.1
58	104	0.0	-501.6	0.0	308.2	0.0	-568.4
	110	0.0	2234.1	0.0	-308.2	0.0	-4697.8
59	104	0.0	1163.7	0.0	298.0	0.0	2035.9
	110	0.0	568.8	0.0	-298.0	0.0	-890.9
60	104	0.0	-714.3	0.0	230.6	0.0	-902.8
	110	0.0	2446.8	0.0	-230.6	0.0	-5182.5
61	104	0.0	950.9	0.0	220.4	0.0	1701.5
	110	0.0	781.6	0.0	-220.4	0.0	-1375.6
62	104	0.0	-2377.2	0.0	129.5	0.0	-3500.1
	110	0.0	4109.7	0.0	-129.5	0.0	-8987.1
63	104	0.0	-2299.9	0.0	-51.8	0.0	-3378.7
	110	0.0	4032.4	0.0	51.8	0.0	-8811.0
64	104	0.0	-2544.0	0.0	9.8	0.0	-3764.3
	110	0.0	4276.5	0.0	-9.8	0.0	-9365.1
65	104	0.0	-2466.7	0.0	-171.5	0.0	-3642.8
	110	0.0	4199.2	0.0	171.5	0.0	-9189.0

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
66	104	0.0	-244.0	0.0	-296.3	0.0	-163.5
	110	0.0	1976.5	0.0	296.3	0.0	-4110.8
67	104	0.0	1421.3	0.0	-306.4	0.0	2440.8
	110	0.0	311.2	0.0	306.4	0.0	-303.9
68	104	0.0	-456.7	0.0	-373.9	0.0	-497.9
	110	0.0	2189.2	0.0	373.9	0.0	-4595.5
69	104	0.0	1208.5	0.0	-384.1	0.0	2106.3
	110	0.0	524.0	0.0	384.1	0.0	-788.6
70	104	0.0	3173.6	0.0	95.7	0.0	5180.8
	110	0.0	-1441.1	0.0	-95.7	0.0	3702.6
71	104	0.0	3250.9	0.0	-85.7	0.0	5302.3
	110	0.0	-1518.4	0.0	85.7	0.0	3878.7
72	104	0.0	3006.8	0.0	-24.1	0.0	4916.6
	110	0.0	-1274.3	0.0	24.1	0.0	3324.6
73	104	0.0	3084.1	0.0	-205.4	0.0	5038.1
	110	0.0	-1351.6	0.0	205.4	0.0	3500.7
1	110	0.0	1389.3	0.0	44.0	0.0	2280.6
	116	0.0	1623.5	0.0	-44.0	0.0	-2883.7
2	110	0.0	1660.8	0.0	49.5	0.0	2263.1
	116	0.0	1351.9	0.0	-49.5	0.0	-1467.8
3	110	0.0	1686.0	0.0	47.7	0.0	2287.7
	116	0.0	1326.7	0.0	-47.7	0.0	-1362.4
4	110	0.0	1686.0	0.0	47.7	0.0	2287.7
	116	0.0	1326.7	0.0	-47.7	0.0	-1362.4
5	110	0.0	1686.0	0.0	47.7	0.0	2287.7
	116	0.0	1326.7	0.0	-47.7	0.0	-1362.4
6	110	0.0	1686.0	0.0	47.7	0.0	2287.7
	116	0.0	1326.7	0.0	-47.7	0.0	-1362.4
7	110	64189.8	1686.0	0.0	47.7	0.0	2287.7
	116	-64189.8	1326.7	0.0	-47.7	0.0	-1362.4
8	110	-64189.8	1686.0	0.0	47.7	0.0	2287.7
	116	64189.8	1326.7	0.0	-47.7	0.0	-1362.4
9	110	0.0	726.2	0.0	-176.1	0.0	-51.5
	116	0.0	1591.3	0.0	176.1	0.0	-2175.9
10	110	0.0	2019.4	0.0	-190.8	0.0	3784.7
	116	0.0	298.1	0.0	190.8	0.0	647.7
11	110	0.0	826.5	0.0	-247.9	0.0	244.3
	116	0.0	1491.0	0.0	247.9	0.0	-1955.1
12	110	0.0	2119.7	0.0	-262.6	0.0	4080.5
	116	0.0	197.8	0.0	262.6	0.0	868.5
13	110	0.0	-776.3	0.0	41.9	0.0	-4510.1
	116	0.0	3093.8	0.0	-41.9	0.0	-5455.6
14	110	0.0	-835.5	0.0	192.2	0.0	-4685.7
	116	0.0	3153.0	0.0	-192.2	0.0	-5584.5
15	110	0.0	-826.3	0.0	-80.8	0.0	-4658.1
	116	0.0	3143.8	0.0	80.8	0.0	-5564.6
16	110	0.0	-885.4	0.0	69.5	0.0	-4833.7
	116	0.0	3202.9	0.0	-69.5	0.0	-5693.5
17	110	0.0	529.1	0.0	325.0	0.0	-636.9
	116	0.0	1788.4	0.0	-325.0	0.0	-2605.6
18	110	0.0	1822.3	0.0	310.3	0.0	3199.4
	116	0.0	495.2	0.0	-310.3	0.0	218.0
19	110	0.0	629.5	0.0	253.1	0.0	-341.1
	116	0.0	1688.0	0.0	-253.1	0.0	-2384.8
20	110	0.0	1922.6	0.0	238.4	0.0	3495.2
	116	0.0	394.9	0.0	-238.4	0.0	438.8
21	110	0.0	3534.2	0.0	-7.1	0.0	8277.4
	116	0.0	-1216.7	0.0	7.1	0.0	3956.4
22	110	0.0	3475.1	0.0	143.2	0.0	8101.8
	116	0.0	-1157.6	0.0	-143.2	0.0	3827.5
23	110	0.0	3484.3	0.0	-129.8	0.0	8129.3
	116	0.0	-1166.8	0.0	129.8	0.0	3847.4
24	110	0.0	3425.2	0.0	20.5	0.0	7953.7
	116	0.0	-1107.7	0.0	-20.5	0.0	3718.5
25	110	0.0	1109.8	0.0	29.9	0.0	1700.7
	116	0.0	1207.7	0.0	-29.9	0.0	-1952.9
26	110	0.0	1290.8	0.0	33.6	0.0	1689.0
	116	0.0	1026.7	0.0	-33.6	0.0	-1009.0
27	110	0.0	1307.6	0.0	32.4	0.0	1705.4
	116	0.0	1009.9	0.0	-32.4	0.0	-938.8
28	110	0.0	1307.6	0.0	32.4	0.0	1705.4
	116	0.0	1009.9	0.0	-32.4	0.0	-938.8

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
29	110	0.0	1307.6	0.0	32.4	0.0	1705.4
	116	0.0	1009.9	0.0	-32.4	0.0	-938.8
30	110	0.0	1307.6	0.0	32.4	0.0	1705.4
	116	0.0	1009.9	0.0	-32.4	0.0	-938.8
31	110	42793.2	1307.6	0.0	32.4	0.0	1705.4
	116	-42793.2	1009.9	0.0	-32.4	0.0	-938.8
32	110	-42793.2	1307.6	0.0	32.4	0.0	1705.4
	116	42793.2	1009.9	0.0	-32.4	0.0	-938.8
33	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
34	110	0.0	1317.7	0.0	31.7	0.0	1715.2
	116	0.0	999.8	0.0	-31.7	0.0	-896.6
35	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
36	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
37	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
38	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
39	110	53491.5	1324.4	0.0	31.2	0.0	1721.8
	116	-53491.5	993.1	0.0	-31.2	0.0	-868.5
40	110	-53491.5	1324.4	0.0	31.2	0.0	1721.8
	116	53491.5	993.1	0.0	-31.2	0.0	-868.5
41	110	0.0	1324.4	0.0	31.2	0.0	1721.8
	116	0.0	993.1	0.0	-31.2	0.0	-868.5
42	110	0.0	785.8	0.0	-155.6	0.0	125.2
	116	0.0	1531.7	0.0	155.6	0.0	-2045.6
43	110	0.0	1950.4	0.0	-168.8	0.0	3579.8
	116	0.0	367.1	0.0	168.8	0.0	497.0
44	110	0.0	875.9	0.0	-220.2	0.0	390.8
	116	0.0	1441.6	0.0	220.2	0.0	-1847.3
45	110	0.0	2040.4	0.0	-233.3	0.0	3845.4
	116	0.0	277.1	0.0	233.3	0.0	695.4
46	110	0.0	-566.9	0.0	40.3	0.0	-3888.8
	116	0.0	2884.4	0.0	-40.3	0.0	-4998.3
47	110	0.0	-620.1	0.0	175.7	0.0	-4046.9
	116	0.0	2937.6	0.0	-175.7	0.0	-5114.3
48	110	0.0	-612.7	0.0	-69.6	0.0	-4024.7
	116	0.0	2930.2	0.0	69.6	0.0	-5098.4
49	110	0.0	-666.0	0.0	65.8	0.0	-4182.8
	116	0.0	2983.5	0.0	-65.8	0.0	-5214.4
50	110	0.0	608.4	0.0	295.7	0.0	-401.8
	116	0.0	1709.1	0.0	-295.7	0.0	-2432.5
51	110	0.0	1772.9	0.0	282.6	0.0	3052.8
	116	0.0	544.6	0.0	-282.6	0.0	110.2
52	110	0.0	698.5	0.0	231.1	0.0	-136.2
	116	0.0	1619.0	0.0	-231.1	0.0	-2234.1
53	110	0.0	1863.0	0.0	218.0	0.0	3318.4
	116	0.0	454.5	0.0	-218.0	0.0	308.6
54	110	0.0	3314.8	0.0	-3.5	0.0	7626.4
	116	0.0	-997.3	0.0	3.5	0.0	3477.3
55	110	0.0	3261.6	0.0	131.9	0.0	7468.3
	116	0.0	-944.1	0.0	-131.9	0.0	3361.3
56	110	0.0	3269.0	0.0	-113.3	0.0	7490.5
	116	0.0	-951.5	0.0	113.3	0.0	3377.2
57	110	0.0	3215.8	0.0	22.1	0.0	7332.4
	116	0.0	-898.3	0.0	-22.1	0.0	3261.2
58	110	0.0	694.8	0.0	-187.1	0.0	-144.6
	116	0.0	1622.7	0.0	187.1	0.0	-2244.6
59	110	0.0	2056.0	0.0	-202.5	0.0	3893.5
	116	0.0	261.5	0.0	202.5	0.0	727.6
60	110	0.0	800.2	0.0	-262.6	0.0	166.1
	116	0.0	1517.3	0.0	262.6	0.0	-2012.6
61	110	0.0	2161.4	0.0	-278.0	0.0	4204.2
	116	0.0	156.1	0.0	278.0	0.0	959.6
62	110	0.0	-886.5	0.0	41.9	0.0	-4836.9
	116	0.0	3204.0	0.0	-41.9	0.0	-5696.2
63	110	0.0	-948.7	0.0	200.2	0.0	-5021.7
	116	0.0	3266.2	0.0	-200.2	0.0	-5831.8
64	110	0.0	-939.8	0.0	-86.6	0.0	-4995.1
	116	0.0	3257.3	0.0	86.6	0.0	-5812.6
65	110	0.0	-1002.1	0.0	71.7	0.0	-5179.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	116	0.0	3319.6	0.0	-71.7	0.0	-5948.3
66	110	0.0	487.4	0.0	340.4	0.0	-760.6
	116	0.0	1830.1	0.0	-340.4	0.0	-2696.7
67	110	0.0	1848.7	0.0	325.0	0.0	3277.5
	116	0.0	468.8	0.0	-325.0	0.0	275.5
68	110	0.0	592.8	0.0	264.9	0.0	-449.9
	116	0.0	1724.7	0.0	-264.9	0.0	-2464.7
69	110	0.0	1954.0	0.0	249.5	0.0	3588.2
	116	0.0	363.5	0.0	-249.5	0.0	507.5
70	110	0.0	3650.9	0.0	-9.3	0.0	8623.5
	116	0.0	-1333.4	0.0	9.3	0.0	4211.2
71	110	0.0	3588.7	0.0	148.9	0.0	8438.7
	116	0.0	-1271.2	0.0	-148.9	0.0	4075.5
72	110	0.0	3597.6	0.0	-137.8	0.0	8465.3
	116	0.0	-1280.1	0.0	137.8	0.0	4094.7
73	110	0.0	3535.4	0.0	20.4	0.0	8280.5
	116	0.0	-1217.9	0.0	-20.4	0.0	3959.1
1	105	0.0	1039.5	0.0	-168.4	0.0	3528.2
	112	0.0	1212.7	0.0	168.4	0.0	-3861.6
2	105	0.0	514.7	0.0	-161.7	0.0	1347.7
	112	0.0	1737.6	0.0	161.7	0.0	-3701.8
3	105	0.0	478.8	0.0	-158.0	0.0	1201.4
	112	0.0	1773.4	0.0	158.0	0.0	-3693.5
4	105	0.0	478.8	0.0	-158.0	0.0	1201.4
	112	0.0	1773.4	0.0	158.0	0.0	-3693.5
5	105	0.0	478.8	0.0	-158.0	0.0	1201.4
	112	0.0	1773.4	0.0	158.0	0.0	-3693.5
6	105	0.0	478.8	0.0	-158.0	0.0	1201.4
	112	0.0	1773.4	0.0	158.0	0.0	-3693.5
7	105	64189.8	478.8	0.0	-158.0	0.0	1201.4
	112	-64189.8	1773.4	0.0	158.0	0.0	-3693.5
8	105	-64189.8	478.8	0.0	-158.0	0.0	1201.4
	112	64189.8	1773.4	0.0	158.0	0.0	-3693.5
9	105	0.0	-699.6	0.0	261.4	0.0	-736.7
	112	0.0	2432.1	0.0	-261.4	0.0	-5077.8
10	105	0.0	1042.8	0.0	248.6	0.0	1999.0
	112	0.0	689.7	0.0	-248.6	0.0	-1105.0
11	105	0.0	-67.6	0.0	184.9	0.0	42.3
	112	0.0	1800.1	0.0	-184.9	0.0	-3636.5
12	105	0.0	1674.9	0.0	172.1	0.0	2778.1
	112	0.0	57.6	0.0	-172.1	0.0	336.4
13	105	0.0	-2904.2	0.0	71.8	0.0	-4363.4
	112	0.0	4636.7	0.0	-71.8	0.0	-10088.7
14	105	0.0	-2986.8	0.0	-121.3	0.0	-4571.9
	112	0.0	4719.3	0.0	121.3	0.0	-10262.7
15	105	0.0	-2121.5	0.0	-46.3	0.0	-3200.8
	112	0.0	3854.0	0.0	46.3	0.0	-8301.8
16	105	0.0	-2204.1	0.0	-239.4	0.0	-3409.4
	112	0.0	3936.6	0.0	239.4	0.0	-8475.8
17	105	0.0	-974.9	0.0	-382.4	0.0	-1431.7
	112	0.0	2707.4	0.0	382.4	0.0	-5658.0
18	105	0.0	767.6	0.0	-395.2	0.0	1304.0
	112	0.0	964.9	0.0	395.2	0.0	-1685.2
19	105	0.0	-342.9	0.0	-458.8	0.0	-652.7
	112	0.0	2075.4	0.0	458.8	0.0	-4216.7
20	105	0.0	1399.6	0.0	-471.6	0.0	2083.0
	112	0.0	332.9	0.0	471.6	0.0	-243.8
21	105	0.0	2904.1	0.0	29.1	0.0	4755.7
	112	0.0	-1171.6	0.0	-29.1	0.0	3154.2
22	105	0.0	2821.5	0.0	-164.0	0.0	4547.2
	112	0.0	-1089.0	0.0	164.0	0.0	2980.1
23	105	0.0	3686.8	0.0	-89.0	0.0	5918.2
	112	0.0	-1954.3	0.0	89.0	0.0	4941.1
24	105	0.0	3604.2	0.0	-282.1	0.0	5709.7
	112	0.0	-1871.7	0.0	282.1	0.0	4767.0
25	105	0.0	747.7	0.0	-114.5	0.0	2321.9
	112	0.0	984.8	0.0	114.5	0.0	-2778.4
26	105	0.0	397.8	0.0	-110.1	0.0	868.3
	112	0.0	1334.7	0.0	110.1	0.0	-2671.9
27	105	0.0	373.9	0.0	-107.6	0.0	770.7
	112	0.0	1358.6	0.0	107.6	0.0	-2666.4
28	105	0.0	373.9	0.0	-107.6	0.0	770.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	112	0.0	1358.6	0.0	107.6	0.0	-2666.4
29	105	0.0	373.9	0.0	-107.6	0.0	770.7
	112	0.0	1358.6	0.0	107.6	0.0	-2666.4
30	105	0.0	373.9	0.0	-107.6	0.0	770.7
	112	0.0	1358.6	0.0	107.6	0.0	-2666.4
31	105	42793.2	373.9	0.0	-107.6	0.0	770.7
	112	-42793.2	1358.6	0.0	107.6	0.0	-2666.4
32	105	-42793.2	373.9	0.0	-107.6	0.0	770.7
	112	42793.2	1358.6	0.0	107.6	0.0	-2666.4
33	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
34	105	0.0	359.5	0.0	-106.1	0.0	712.2
	112	0.0	1373.0	0.0	106.1	0.0	-2663.0
35	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
36	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
37	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
38	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
39	105	53491.5	350.0	0.0	-105.1	0.0	673.2
	112	-53491.5	1382.5	0.0	105.1	0.0	-2660.8
40	105	-53491.5	350.0	0.0	-105.1	0.0	673.2
	112	53491.5	1382.5	0.0	105.1	0.0	-2660.8
41	105	0.0	350.0	0.0	-105.1	0.0	673.2
	112	0.0	1382.5	0.0	105.1	0.0	-2660.8
42	105	0.0	-594.7	0.0	224.8	0.0	-598.6
	112	0.0	2327.2	0.0	-224.8	0.0	-4836.4
43	105	0.0	974.7	0.0	213.4	0.0	1865.3
	112	0.0	757.8	0.0	-213.4	0.0	-1258.3
44	105	0.0	-27.3	0.0	156.0	0.0	103.3
	112	0.0	1759.8	0.0	-156.0	0.0	-3542.5
45	105	0.0	1542.0	0.0	144.6	0.0	2567.2
	112	0.0	190.5	0.0	-144.6	0.0	35.6
46	105	0.0	-2581.3	0.0	53.5	0.0	-3864.5
	112	0.0	4313.8	0.0	-53.5	0.0	-9351.6
47	105	0.0	-2655.5	0.0	-120.4	0.0	-4051.2
	112	0.0	4388.0	0.0	120.4	0.0	-9507.9
48	105	0.0	-1875.8	0.0	-52.0	0.0	-2815.5
	112	0.0	3608.3	0.0	52.0	0.0	-7740.9
49	105	0.0	-1950.0	0.0	-225.9	0.0	-3002.2
	112	0.0	3682.5	0.0	225.9	0.0	-7897.1
50	105	0.0	-842.1	0.0	-354.9	0.0	-1220.9
	112	0.0	2574.6	0.0	354.9	0.0	-5357.2
51	105	0.0	727.3	0.0	-366.3	0.0	1243.1
	112	0.0	1005.2	0.0	366.3	0.0	-1779.1
52	105	0.0	-274.8	0.0	-423.7	0.0	-518.9
	112	0.0	2007.3	0.0	423.7	0.0	-4063.4
53	105	0.0	1294.6	0.0	-435.1	0.0	1945.0
	112	0.0	437.9	0.0	435.1	0.0	-485.2
54	105	0.0	2649.9	0.0	15.6	0.0	4348.6
	112	0.0	-917.4	0.0	-15.6	0.0	2575.5
55	105	0.0	2575.7	0.0	-158.3	0.0	4161.9
	112	0.0	-843.2	0.0	158.3	0.0	2419.2
56	105	0.0	3355.5	0.0	-89.9	0.0	5397.5
	112	0.0	-1623.0	0.0	89.9	0.0	4186.2
57	105	0.0	3281.2	0.0	-263.8	0.0	5210.9
	112	0.0	-1548.7	0.0	263.8	0.0	4030.0
58	105	0.0	-754.1	0.0	280.6	0.0	-813.4
	112	0.0	2486.6	0.0	-280.6	0.0	-5203.7
59	105	0.0	1080.2	0.0	267.2	0.0	2066.6
	112	0.0	652.3	0.0	-267.2	0.0	-1021.4
60	105	0.0	-91.0	0.0	200.1	0.0	7.2
	112	0.0	1823.5	0.0	-200.1	0.0	-3691.2
61	105	0.0	1743.4	0.0	186.7	0.0	2887.2
	112	0.0	-10.9	0.0	-186.7	0.0	491.1
62	105	0.0	-3076.2	0.0	80.5	0.0	-4630.6
	112	0.0	4808.7	0.0	-80.5	0.0	-10481.3
63	105	0.0	-3163.0	0.0	-122.8	0.0	-4848.9
	112	0.0	4895.5	0.0	122.8	0.0	-10664.0
64	105	0.0	-2251.6	0.0	-43.0	0.0	-3404.6
	112	0.0	3984.1	0.0	43.0	0.0	-8598.6

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
65	105	0.0	-2338.4	0.0	-246.3	0.0	-3622.8
	112	0.0	4070.9	0.0	246.3	0.0	-8781.3
66	105	0.0	-1043.4	0.0	-397.0	0.0	-1540.8
	112	0.0	2775.9	0.0	397.0	0.0	-5812.8
67	105	0.0	790.9	0.0	-410.4	0.0	1339.2
	112	0.0	941.6	0.0	410.4	0.0	-1630.4
68	105	0.0	-380.2	0.0	-477.5	0.0	-720.2
	112	0.0	2112.7	0.0	477.5	0.0	-4300.2
69	105	0.0	1454.1	0.0	-490.9	0.0	2159.8
	112	0.0	278.4	0.0	490.9	0.0	-117.9
70	105	0.0	3038.3	0.0	36.0	0.0	4969.2
	112	0.0	-1305.8	0.0	-36.0	0.0	3459.7
71	105	0.0	2951.5	0.0	-167.3	0.0	4751.0
	112	0.0	-1219.0	0.0	167.3	0.0	3277.0
72	105	0.0	3862.9	0.0	-87.5	0.0	6195.2
	112	0.0	-2130.4	0.0	87.5	0.0	5342.4
73	105	0.0	3776.1	0.0	-290.8	0.0	5977.0
	112	0.0	-2043.6	0.0	290.8	0.0	5159.7
1	112	0.0	1746.6	0.0	-6.2	0.0	3159.5
	117	0.0	1266.1	0.0	6.2	0.0	-1922.3
2	112	0.0	1979.4	0.0	4.3	0.0	3138.3
	117	0.0	1033.4	0.0	-4.3	0.0	-702.2
3	112	0.0	1996.3	0.0	5.2	0.0	3144.7
	117	0.0	1016.5	0.0	-5.2	0.0	-621.8
4	112	0.0	1996.3	0.0	5.2	0.0	3144.7
	117	0.0	1016.5	0.0	-5.2	0.0	-621.8
5	112	0.0	1996.3	0.0	5.2	0.0	3144.7
	117	0.0	1016.5	0.0	-5.2	0.0	-621.8
6	112	0.0	1996.3	0.0	5.2	0.0	3144.7
	117	0.0	1016.5	0.0	-5.2	0.0	-621.8
7	112	64189.8	1996.3	0.0	5.2	0.0	3144.7
	117	-64189.8	1016.5	0.0	-5.2	0.0	-621.8
8	112	-64189.8	1996.3	0.0	5.2	0.0	3144.7
	117	64189.8	1016.5	0.0	-5.2	0.0	-621.8
9	112	0.0	801.5	0.0	-267.6	0.0	166.2
	117	0.0	1516.0	0.0	267.6	0.0	-2005.8
10	112	0.0	2216.6	0.0	-271.0	0.0	4303.2
	117	0.0	100.9	0.0	271.0	0.0	1145.0
11	112	0.0	1230.9	0.0	-336.9	0.0	1406.8
	117	0.0	1086.6	0.0	336.9	0.0	-1035.1
12	112	0.0	2646.0	0.0	-340.3	0.0	5543.9
	117	0.0	-328.5	0.0	340.3	0.0	2115.7
13	112	0.0	-1084.0	0.0	-23.1	0.0	-5335.6
	117	0.0	3401.5	0.0	23.1	0.0	-6214.7
14	112	0.0	-1197.6	0.0	160.6	0.0	-5664.5
	117	0.0	3515.1	0.0	-160.6	0.0	-6470.9
15	112	0.0	-450.6	0.0	-144.9	0.0	-3511.9
	117	0.0	2768.1	0.0	144.9	0.0	-4776.1
16	112	0.0	-564.2	0.0	38.7	0.0	-3840.8
	117	0.0	2881.7	0.0	-38.7	0.0	-5032.3
17	112	0.0	422.8	0.0	344.7	0.0	-930.1
	117	0.0	1894.7	0.0	-344.7	0.0	-2860.0
18	112	0.0	1838.0	0.0	341.3	0.0	3207.0
	117	0.0	479.5	0.0	-341.3	0.0	290.9
19	112	0.0	852.2	0.0	275.4	0.0	310.6
	117	0.0	1465.3	0.0	-275.4	0.0	-1889.2
20	112	0.0	2267.4	0.0	272.0	0.0	4447.7
	117	0.0	50.1	0.0	-272.0	0.0	1261.6
21	112	0.0	3633.1	0.0	-34.4	0.0	8454.6
	117	0.0	-1315.6	0.0	34.4	0.0	4288.1
22	112	0.0	3519.5	0.0	149.3	0.0	8125.8
	117	0.0	-1202.0	0.0	-149.3	0.0	4031.9
23	112	0.0	4266.5	0.0	-156.3	0.0	10278.3
	117	0.0	-1949.0	0.0	156.3	0.0	5726.7
24	112	0.0	4152.9	0.0	27.4	0.0	9949.5
	117	0.0	-1835.4	0.0	-27.4	0.0	5470.4
25	112	0.0	1356.8	0.0	-6.0	0.0	2312.5
	117	0.0	960.7	0.0	6.0	0.0	-1292.7
26	112	0.0	1512.0	0.0	1.0	0.0	2298.4
	117	0.0	805.5	0.0	-1.0	0.0	-479.4
27	112	0.0	1523.2	0.0	1.6	0.0	2302.6
	117	0.0	794.3	0.0	-1.6	0.0	-425.7

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
28	112	0.0	1523.2	0.0	1.6	0.0	2302.6
	117	0.0	794.3	0.0	-1.6	0.0	-425.7
29	112	0.0	1523.2	0.0	1.6	0.0	2302.6
	117	0.0	794.3	0.0	-1.6	0.0	-425.7
30	112	0.0	1523.2	0.0	1.6	0.0	2302.6
	117	0.0	794.3	0.0	-1.6	0.0	-425.7
31	112	42793.2	1523.2	0.0	1.6	0.0	2302.6
	117	-42793.2	794.3	0.0	-1.6	0.0	-425.7
32	112	-42793.2	1523.2	0.0	1.6	0.0	2302.6
	117	42793.2	794.3	0.0	-1.6	0.0	-425.7
33	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
34	112	0.0	1529.9	0.0	1.9	0.0	2305.2
	117	0.0	787.6	0.0	-1.9	0.0	-393.6
35	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
36	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
37	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
38	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
39	112	53491.5	1534.4	0.0	2.2	0.0	2306.9
	117	-53491.5	783.1	0.0	-2.2	0.0	-372.1
40	112	-53491.5	1534.4	0.0	2.2	0.0	2306.9
	117	53491.5	783.1	0.0	-2.2	0.0	-372.1
41	112	0.0	1534.4	0.0	2.2	0.0	2306.9
	117	0.0	783.1	0.0	-2.2	0.0	-372.1
42	112	0.0	873.1	0.0	-241.0	0.0	375.4
	117	0.0	1444.4	0.0	241.0	0.0	-1846.2
43	112	0.0	2147.7	0.0	-243.9	0.0	4101.5
	117	0.0	169.8	0.0	243.9	0.0	991.5
44	112	0.0	1260.2	0.0	-303.3	0.0	1493.7
	117	0.0	1057.3	0.0	303.3	0.0	-971.3
45	112	0.0	2534.7	0.0	-306.1	0.0	5219.7
	117	0.0	-217.2	0.0	306.1	0.0	1866.5
46	112	0.0	-824.7	0.0	-21.3	0.0	-4578.7
	117	0.0	3142.2	0.0	21.3	0.0	-5636.1
47	112	0.0	-926.4	0.0	144.2	0.0	-4873.1
	117	0.0	3243.9	0.0	-144.2	0.0	-5865.4
48	112	0.0	-253.1	0.0	-130.3	0.0	-2933.1
	117	0.0	2570.6	0.0	130.3	0.0	-4338.0
49	112	0.0	-354.8	0.0	35.2	0.0	-3227.5
	117	0.0	2672.3	0.0	-35.2	0.0	-4567.4
50	112	0.0	534.2	0.0	310.5	0.0	-605.9
	117	0.0	1783.3	0.0	-310.5	0.0	-2610.7
51	112	0.0	1808.7	0.0	307.6	0.0	3120.1
	117	0.0	508.8	0.0	-307.6	0.0	227.1
52	112	0.0	921.2	0.0	248.2	0.0	512.4
	117	0.0	1396.3	0.0	-248.2	0.0	-1735.8
53	112	0.0	2195.7	0.0	245.4	0.0	4238.4
	117	0.0	121.8	0.0	-245.4	0.0	1102.0
54	112	0.0	3423.7	0.0	-30.8	0.0	7841.4
	117	0.0	-1106.2	0.0	30.8	0.0	3823.1
55	112	0.0	3322.0	0.0	134.6	0.0	7547.0
	117	0.0	-1004.5	0.0	-134.6	0.0	3593.8
56	112	0.0	3995.3	0.0	-139.8	0.0	9487.0
	117	0.0	-1677.8	0.0	139.8	0.0	5121.2
57	112	0.0	3893.6	0.0	25.6	0.0	9192.6
	117	0.0	-1576.1	0.0	-25.6	0.0	4891.8
58	112	0.0	761.5	0.0	-282.0	0.0	49.3
	117	0.0	1556.0	0.0	282.0	0.0	-2095.1
59	112	0.0	2251.2	0.0	-285.4	0.0	4404.5
	117	0.0	66.3	0.0	285.4	0.0	1221.8
60	112	0.0	1213.9	0.0	-354.9	0.0	1356.6
	117	0.0	1103.6	0.0	354.9	0.0	-1072.3
61	112	0.0	2703.7	0.0	-358.3	0.0	5711.8
	117	0.0	-386.2	0.0	358.3	0.0	2244.6
62	112	0.0	-1223.0	0.0	-25.1	0.0	-5741.3
	117	0.0	3540.5	0.0	25.1	0.0	-6524.8
63	112	0.0	-1341.9	0.0	168.3	0.0	-6085.5
	117	0.0	3659.4	0.0	-168.3	0.0	-6792.9
64	112	0.0	-555.0	0.0	-152.7	0.0	-3817.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	117	0.0	2872.5	0.0	152.7	0.0	-5007.7
65	112	0.0	-673.8	0.0	40.7	0.0	-4162.1
	117	0.0	2991.3	0.0	-40.7	0.0	-5275.8
66	112	0.0	365.2	0.0	362.6	0.0	-1097.9
	117	0.0	1952.3	0.0	-362.6	0.0	-2988.8
67	112	0.0	1854.9	0.0	359.2	0.0	3257.3
	117	0.0	462.6	0.0	-359.2	0.0	328.1
68	112	0.0	817.7	0.0	289.8	0.0	209.4
	117	0.0	1499.8	0.0	-289.8	0.0	-1966.0
69	112	0.0	2307.4	0.0	286.4	0.0	4564.5
	117	0.0	10.1	0.0	-286.4	0.0	1350.9
70	112	0.0	3742.7	0.0	-36.4	0.0	8775.9
	117	0.0	-1425.2	0.0	36.4	0.0	4531.5
71	112	0.0	3623.8	0.0	157.0	0.0	8431.8
	117	0.0	-1306.3	0.0	-157.0	0.0	4263.4
72	112	0.0	4410.8	0.0	-164.0	0.0	10699.3
	117	0.0	-2093.3	0.0	164.0	0.0	6048.7
73	112	0.0	4291.9	0.0	29.4	0.0	10355.2
	117	0.0	-1974.4	0.0	-29.4	0.0	5780.6
1	113	0.0	4769.5	-242.5	1615.3	155.6	5080.1
	107	0.0	3644.7	-242.5	1852.7	-155.6	-2914.9
2	113	0.0	3508.9	-242.5	1190.7	155.6	3813.9
	107	0.0	2306.5	-242.5	645.3	-155.6	-1499.3
3	113	0.0	3428.2	23.1	1138.4	-14.8	3736.1
	107	0.0	2214.0	23.1	589.6	14.8	-1398.9
4	113	0.0	3428.2	-669.9	1138.4	429.9	3736.1
	107	0.0	2214.0	-669.9	589.6	-429.9	-1398.9
5	113	0.0	3428.2	-242.5	1138.4	155.6	3736.1
	107	0.0	2214.0	-242.5	589.6	-155.6	-1398.9
6	113	0.0	3428.2	-242.5	1138.4	155.6	3736.1
	107	0.0	2214.0	-242.5	589.6	-155.6	-1398.9
7	113	64189.8	3428.2	-242.5	1138.4	155.6	3736.1
	107	-64189.8	2214.0	-242.5	589.6	-155.6	-1398.9
8	113	-64189.8	3428.2	-242.5	1138.4	155.6	3736.1
	107	64189.8	2214.0	-242.5	589.6	-155.6	-1398.9
9	113	0.0	4187.7	0.0	1186.8	0.0	6733.9
	107	0.0	-310.8	0.0	-106.8	0.0	1925.9
10	113	0.0	2346.7	0.0	1128.5	0.0	2595.1
	107	0.0	1530.3	0.0	-48.5	0.0	-1023.2
11	113	0.0	3507.4	0.0	1074.8	0.0	5109.8
	107	0.0	369.6	0.0	5.2	0.0	939.6
12	113	0.0	1666.3	0.0	1016.6	0.0	971.0
	107	0.0	2210.6	0.0	63.4	0.0	-2009.5
13	113	0.0	6410.0	0.0	1003.3	0.0	11668.9
	107	0.0	-2533.0	0.0	76.7	0.0	5546.4
14	113	0.0	6082.9	0.0	778.3	0.0	10907.0
	107	0.0	-2206.0	0.0	301.7	0.0	5046.4
15	113	0.0	4817.8	0.0	869.6	0.0	8054.1
	107	0.0	-940.8	0.0	210.4	0.0	3034.0
16	113	0.0	4490.7	0.0	644.7	0.0	7292.1
	107	0.0	-613.8	0.0	435.3	0.0	2534.0
17	113	0.0	3097.6	0.0	437.0	0.0	4194.0
	107	0.0	779.3	0.0	643.0	0.0	259.4
18	113	0.0	1256.6	0.0	378.8	0.0	55.2
	107	0.0	2620.4	0.0	701.2	0.0	-2689.8
19	113	0.0	2417.2	0.0	325.1	0.0	2569.9
	107	0.0	1459.7	0.0	754.9	0.0	-726.9
20	113	0.0	576.2	0.0	266.8	0.0	-1568.9
	107	0.0	3300.7	0.0	813.2	0.0	-3676.1
21	113	0.0	273.2	0.0	808.9	0.0	-2127.1
	107	0.0	3603.8	0.0	271.1	0.0	-4284.2
22	113	0.0	-53.9	0.0	584.0	0.0	-2889.1
	107	0.0	3930.8	0.0	496.0	0.0	-4784.2
23	113	0.0	-1319.0	0.0	675.2	0.0	-5742.0
	107	0.0	5195.9	0.0	404.8	0.0	-6796.5
24	113	0.0	-1646.0	0.0	450.3	0.0	-6503.9
	107	0.0	5523.0	0.0	629.7	0.0	-7296.5
25	113	0.0	3330.0	-161.7	1079.6	103.8	3530.3
	107	0.0	2510.4	-161.7	1232.4	-103.8	-1952.6
26	113	0.0	2489.6	-161.7	796.5	103.8	2686.1
	107	0.0	1618.3	-161.7	427.5	-103.8	-1008.9
27	113	0.0	2435.8	15.4	761.6	-9.9	2634.3

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	107	0.0	1556.7	15.4	390.4	9.9	-942.0
28	113	0.0	2435.8	-446.6	761.6	286.6	2634.3
	107	0.0	1556.7	-446.6	390.4	-286.6	-942.0
29	113	0.0	2435.8	-161.7	761.6	103.8	2634.3
	107	0.0	1556.7	-161.7	390.4	-103.8	-942.0
30	113	0.0	2435.8	-161.7	761.6	103.8	2634.3
	107	0.0	1556.7	-161.7	390.4	-103.8	-942.0
31	113	42793.2	2435.8	-161.7	761.6	103.8	2634.3
	107	-42793.2	1556.7	-161.7	390.4	-103.8	-942.0
32	113	-42793.2	2435.8	-161.7	761.6	103.8	2634.3
	107	42793.2	1556.7	-161.7	390.4	-103.8	-942.0
33	113	0.0	2382.0	0.0	726.8	0.0	2582.5
	107	0.0	1495.0	0.0	353.2	0.0	-875.1
34	113	0.0	2403.5	0.0	740.7	0.0	2603.2
	107	0.0	1519.7	0.0	368.1	0.0	-901.8
35	113	0.0	2382.0	88.6	726.8	-56.8	2582.5
	107	0.0	1495.0	88.6	353.2	56.8	-875.1
36	113	0.0	2382.0	-142.4	726.8	91.4	2582.5
	107	0.0	1495.0	-142.4	353.2	-91.4	-875.1
37	113	0.0	2382.0	0.0	726.8	0.0	2582.5
	107	0.0	1495.0	0.0	353.2	0.0	-875.1
38	113	0.0	2382.0	0.0	726.8	0.0	2582.5
	107	0.0	1495.0	0.0	353.2	0.0	-875.1
39	113	53491.5	2382.0	0.0	726.8	0.0	2582.5
	107	-53491.5	1495.0	0.0	353.2	0.0	-875.1
40	113	-53491.5	2382.0	0.0	726.8	0.0	2582.5
	107	53491.5	1495.0	0.0	353.2	0.0	-875.1
41	113	0.0	2382.0	0.0	726.8	0.0	2582.5
	107	0.0	1495.0	0.0	353.2	0.0	-875.1
42	113	0.0	4008.1	0.0	1140.9	0.0	6321.2
	107	0.0	-131.2	0.0	-60.9	0.0	1647.3
43	113	0.0	2350.8	0.0	1088.8	0.0	2595.3
	107	0.0	1526.2	0.0	-8.8	0.0	-1007.7
44	113	0.0	3386.2	0.0	1039.7	0.0	4837.1
	107	0.0	490.8	0.0	40.3	0.0	745.1
45	113	0.0	1728.8	0.0	987.7	0.0	1111.2
	107	0.0	2148.1	0.0	92.3	0.0	-1909.9
46	113	0.0	6009.5	0.0	974.8	0.0	10765.5
	107	0.0	-2132.5	0.0	105.2	0.0	4907.9
47	113	0.0	5717.5	0.0	772.3	0.0	10085.3
	107	0.0	-1840.6	0.0	307.7	0.0	4461.6
48	113	0.0	4571.0	0.0	854.7	0.0	7499.4
	107	0.0	-694.0	0.0	225.3	0.0	2638.2
49	113	0.0	4279.0	0.0	652.2	0.0	6819.2
	107	0.0	-402.1	0.0	427.8	0.0	2191.9
50	113	0.0	3035.1	0.0	465.9	0.0	4053.8
	107	0.0	841.8	0.0	614.1	0.0	159.8
51	113	0.0	1377.7	0.0	413.8	0.0	327.9
	107	0.0	2499.2	0.0	666.2	0.0	-2495.2
52	113	0.0	2413.2	0.0	364.8	0.0	2569.7
	107	0.0	1463.8	0.0	715.2	0.0	-742.5
53	113	0.0	755.8	0.0	312.7	0.0	-1156.2
	107	0.0	3121.2	0.0	767.3	0.0	-3397.4
54	113	0.0	484.9	0.0	801.4	0.0	-1654.2
	107	0.0	3392.1	0.0	278.6	0.0	-3942.0
55	113	0.0	193.0	0.0	598.9	0.0	-2334.4
	107	0.0	3684.0	0.0	481.1	0.0	-4388.3
56	113	0.0	-953.6	0.0	681.3	0.0	-4920.3
	107	0.0	4830.6	0.0	398.7	0.0	-6211.8
57	113	0.0	-1245.5	0.0	478.8	0.0	-5600.5
	107	0.0	5122.5	0.0	601.2	0.0	-6658.0
58	113	0.0	4282.8	0.0	1210.8	0.0	6952.6
	107	0.0	-405.8	0.0	-130.9	0.0	2073.3
59	113	0.0	2345.5	0.0	1150.0	0.0	2597.4
	107	0.0	1531.4	0.0	-70.0	0.0	-1030.1
60	113	0.0	3556.3	0.0	1092.6	0.0	5219.1
	107	0.0	320.6	0.0	-12.6	0.0	1019.5
61	113	0.0	1619.0	0.0	1031.7	0.0	863.9
	107	0.0	2257.9	0.0	48.3	0.0	-2083.9
62	113	0.0	6622.2	0.0	1016.9	0.0	12147.7
	107	0.0	-2745.2	0.0	63.1	0.0	5884.7
63	113	0.0	6280.8	0.0	780.2	0.0	11352.2
	107	0.0	-2403.9	0.0	299.8	0.0	5362.8

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
64	113	0.0	4940.8	0.0	876.3	0.0	8330.1
	107	0.0	-1063.8	0.0	203.7	0.0	3231.7
65	113	0.0	4599.4	0.0	639.6	0.0	7534.6
	107	0.0	-722.4	0.0	440.4	0.0	2709.8
66	113	0.0	3144.9	0.0	421.9	0.0	4301.1
	107	0.0	732.0	0.0	658.1	0.0	333.7
67	113	0.0	1207.6	0.0	361.0	0.0	-54.1
	107	0.0	2669.3	0.0	719.0	0.0	-2769.6
68	113	0.0	2418.4	0.0	303.6	0.0	2567.6
	107	0.0	1458.5	0.0	776.4	0.0	-720.1
69	113	0.0	481.1	0.0	242.7	0.0	-1787.6
	107	0.0	3395.8	0.0	837.3	0.0	-3823.5
70	113	0.0	164.5	0.0	814.0	0.0	-2369.6
	107	0.0	3712.4	0.0	266.0	0.0	-4459.9
71	113	0.0	-176.8	0.0	577.3	0.0	-3165.1
	107	0.0	4053.8	0.0	502.7	0.0	-4981.8
72	113	0.0	-1516.9	0.0	673.4	0.0	-6187.2
	107	0.0	5393.8	0.0	406.6	0.0	-7112.9
73	113	0.0	-1858.2	0.0	436.7	0.0	-6982.6
	107	0.0	5735.2	0.0	643.3	0.0	-7634.8
1	118	0.0	4355.3	-324.5	2553.1	278.5	929.8
	113	0.0	6900.1	-324.5	2648.9	-278.5	-7482.6
2	118	0.0	2832.0	-324.5	1230.3	278.5	123.1
	113	0.0	4947.1	-324.5	1523.7	-278.5	-5569.6
3	118	0.0	2736.3	30.9	1152.5	-26.5	87.9
	113	0.0	4811.0	30.9	1439.5	26.5	-5430.1
4	118	0.0	2736.3	-896.1	1152.5	769.2	87.9
	113	0.0	4811.0	-896.1	1439.5	-769.2	-5430.1
5	118	0.0	2736.3	-324.5	1152.5	278.5	87.9
	113	0.0	4811.0	-324.5	1439.5	-278.5	-5430.1
6	118	0.0	2736.3	-324.5	1152.5	278.5	87.9
	113	0.0	4811.0	-324.5	1439.5	-278.5	-5430.1
7	118	64189.8	2736.3	-324.5	1152.5	278.5	87.9
	113	-64189.8	4811.0	-324.5	1439.5	-278.5	-5430.1
8	118	-64189.8	2736.3	-324.5	1152.5	278.5	87.9
	113	64189.8	4811.0	-324.5	1439.5	-278.5	-5430.1
9	118	0.0	2983.1	0.0	825.1	0.0	3103.9
	113	0.0	2202.9	0.0	794.9	0.0	-1120.0
10	118	0.0	954.8	0.0	857.8	0.0	-2564.2
	113	0.0	4231.3	0.0	762.2	0.0	-5898.2
11	118	0.0	1825.0	0.0	802.3	0.0	-33.0
	113	0.0	3361.1	0.0	817.7	0.0	-3923.9
12	118	0.0	-203.4	0.0	835.0	0.0	-5701.1
	113	0.0	5389.5	0.0	785.0	0.0	-8702.1
13	118	0.0	6028.1	0.0	710.1	0.0	11646.0
	113	0.0	-842.0	0.0	909.9	0.0	6037.0
14	118	0.0	6320.0	0.0	641.5	0.0	12451.3
	113	0.0	-1133.9	0.0	978.5	0.0	6743.0
15	118	0.0	4194.0	0.0	680.9	0.0	6529.4
	113	0.0	992.0	0.0	939.1	0.0	1715.3
16	118	0.0	4485.9	0.0	612.2	0.0	7334.7
	113	0.0	700.1	0.0	1007.8	0.0	2421.3
17	118	0.0	3956.1	0.0	596.3	0.0	5788.2
	113	0.0	1229.9	0.0	1023.7	0.0	1233.2
18	118	0.0	1927.7	0.0	629.0	0.0	120.2
	113	0.0	3258.3	0.0	991.0	0.0	-3544.9
19	118	0.0	2798.0	0.0	573.5	0.0	2651.3
	113	0.0	2388.1	0.0	1046.5	0.0	-1570.7
20	118	0.0	769.6	0.0	606.2	0.0	-3016.7
	113	0.0	4416.5	0.0	1013.8	0.0	-6348.8
21	118	0.0	-733.2	0.0	819.0	0.0	-7247.6
	113	0.0	5919.3	0.0	801.0	0.0	-9890.1
22	118	0.0	-441.3	0.0	750.4	0.0	-6442.3
	113	0.0	5627.4	0.0	869.6	0.0	-9184.2
23	118	0.0	-2567.3	0.0	789.8	0.0	-12364.1
	113	0.0	7753.3	0.0	830.2	0.0	-14211.8
24	118	0.0	-2275.4	0.0	721.2	0.0	-11558.8
	113	0.0	7461.4	0.0	898.8	0.0	-13505.9
25	118	0.0	3019.4	-216.3	1701.2	185.7	628.2
	113	0.0	4793.2	-216.3	1766.8	-185.7	-5195.7
26	118	0.0	2003.8	-216.3	819.3	185.7	90.4
	113	0.0	3491.2	-216.3	1016.7	-185.7	-3920.4

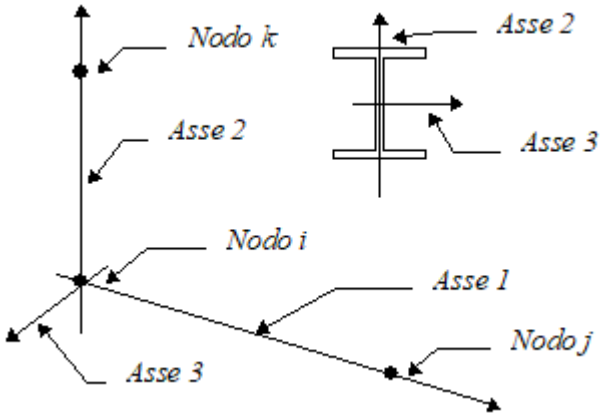
Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
27	118	0.0	1940.1	20.6	767.5	-17.7	67.0
	113	0.0	3400.5	20.6	960.5	17.7	-3827.4
28	118	0.0	1940.1	-597.4	767.5	512.8	67.0
	113	0.0	3400.5	-597.4	960.5	-512.8	-3827.4
29	118	0.0	1940.1	-216.3	767.5	185.7	67.0
	113	0.0	3400.5	-216.3	960.5	-185.7	-3827.4
30	118	0.0	1940.1	-216.3	767.5	185.7	67.0
	113	0.0	3400.5	-216.3	960.5	-185.7	-3827.4
31	118	42793.2	1940.1	-216.3	767.5	185.7	67.0
	113	-42793.2	3400.5	-216.3	960.5	-185.7	-3827.4
32	118	-42793.2	1940.1	-216.3	767.5	185.7	67.0
	113	42793.2	3400.5	-216.3	960.5	-185.7	-3827.4
33	118	0.0	1876.4	0.0	715.6	0.0	43.6
	113	0.0	3309.7	0.0	904.4	0.0	-3734.4
34	118	0.0	1901.9	0.0	736.4	0.0	52.9
	113	0.0	3346.0	0.0	926.8	0.0	-3771.6
35	118	0.0	1876.4	118.4	715.6	-101.7	43.6
	113	0.0	3309.7	118.4	904.4	101.7	-3734.4
36	118	0.0	1876.4	-190.5	715.6	163.6	43.6
	113	0.0	3309.7	-190.5	904.4	-163.6	-3734.4
37	118	0.0	1876.4	0.0	715.6	0.0	43.6
	113	0.0	3309.7	0.0	904.4	0.0	-3734.4
38	118	0.0	1876.4	0.0	715.6	0.0	43.6
	113	0.0	3309.7	0.0	904.4	0.0	-3734.4
39	118	53491.5	1876.4	0.0	715.6	0.0	43.6
	113	-53491.5	3309.7	0.0	904.4	0.0	-3734.4
40	118	-53491.5	1876.4	0.0	715.6	0.0	43.6
	113	53491.5	3309.7	0.0	904.4	0.0	-3734.4
41	118	0.0	1876.4	0.0	715.6	0.0	43.6
	113	0.0	3309.7	0.0	904.4	0.0	-3734.4
42	118	0.0	2876.4	0.0	814.3	0.0	2807.8
	113	0.0	2309.6	0.0	805.7	0.0	-1371.5
43	118	0.0	1050.3	0.0	843.7	0.0	-2295.0
	113	0.0	4135.8	0.0	776.3	0.0	-5673.3
44	118	0.0	1832.9	0.0	793.6	0.0	-16.8
	113	0.0	3353.1	0.0	826.4	0.0	-3899.0
45	118	0.0	6.8	0.0	823.0	0.0	-5119.6
	113	0.0	5179.3	0.0	797.0	0.0	-8200.7
46	118	0.0	5616.4	0.0	710.9	0.0	10495.2
	113	0.0	-430.4	0.0	909.1	0.0	5068.4
47	118	0.0	5877.3	0.0	649.1	0.0	11214.9
	113	0.0	-691.2	0.0	970.9	0.0	5699.4
48	118	0.0	3962.5	0.0	684.3	0.0	5881.8
	113	0.0	1223.5	0.0	935.7	0.0	1170.9
49	118	0.0	4223.4	0.0	622.5	0.0	6601.5
	113	0.0	962.7	0.0	997.5	0.0	1801.9
50	118	0.0	3745.9	0.0	608.3	0.0	5206.8
	113	0.0	1440.1	0.0	1011.7	0.0	731.9
51	118	0.0	1919.8	0.0	637.7	0.0	103.9
	113	0.0	3266.3	0.0	982.3	0.0	-3569.9
52	118	0.0	2702.4	0.0	587.6	0.0	2382.1
	113	0.0	2483.6	0.0	1032.4	0.0	-1795.6
53	118	0.0	876.3	0.0	617.0	0.0	-2720.7
	113	0.0	4309.8	0.0	1003.0	0.0	-6097.3
54	118	0.0	-470.7	0.0	808.8	0.0	-6514.3
	113	0.0	5656.7	0.0	811.2	0.0	-9270.7
55	118	0.0	-209.8	0.0	747.0	0.0	-5794.7
	113	0.0	5395.9	0.0	873.0	0.0	-8639.7
56	118	0.0	-2124.6	0.0	782.2	0.0	-11127.7
	113	0.0	7310.6	0.0	837.8	0.0	-13168.3
57	118	0.0	-1863.7	0.0	720.3	0.0	-10408.1
	113	0.0	7049.8	0.0	899.7	0.0	-12537.2
58	118	0.0	3045.3	0.0	831.0	0.0	3274.8
	113	0.0	2140.7	0.0	789.0	0.0	-972.4
59	118	0.0	910.8	0.0	865.3	0.0	-2689.9
	113	0.0	4275.2	0.0	754.7	0.0	-6000.7
60	118	0.0	1825.4	0.0	806.8	0.0	-27.6
	113	0.0	3360.7	0.0	813.2	0.0	-3927.3
61	118	0.0	-309.2	0.0	841.1	0.0	-5992.3
	113	0.0	5495.2	0.0	778.9	0.0	-8955.5
62	118	0.0	6248.1	0.0	710.1	0.0	12260.5
	113	0.0	-1062.1	0.0	909.9	0.0	6555.2
63	118	0.0	6553.1	0.0	637.8	0.0	13101.9

Comb.	Nodo	N [kg]	T1-2 [kg]	T1-3 [kg]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	113	0.0	-1367.0	0.0	982.2	0.0	7292.9
64	118	0.0	4314.8	0.0	679.0	0.0	6867.4
	113	0.0	871.3	0.0	941.0	0.0	1999.0
65	118	0.0	4619.7	0.0	606.8	0.0	7708.8
	113	0.0	566.3	0.0	1013.2	0.0	2736.8
66	118	0.0	4061.9	0.0	590.2	0.0	6079.4
	113	0.0	1124.2	0.0	1029.8	0.0	1486.7
67	118	0.0	1927.3	0.0	624.5	0.0	114.8
	113	0.0	3258.7	0.0	995.5	0.0	-3541.6
68	118	0.0	2841.9	0.0	566.0	0.0	2777.0
	113	0.0	2344.1	0.0	1054.0	0.0	-1468.2
69	118	0.0	707.4	0.0	600.3	0.0	-3187.6
	113	0.0	4478.7	0.0	1019.7	0.0	-6496.4
70	118	0.0	-867.0	0.0	824.5	0.0	-7621.7
	113	0.0	6053.1	0.0	795.5	0.0	-10205.6
71	118	0.0	-562.1	0.0	752.3	0.0	-6780.3
	113	0.0	5748.1	0.0	867.7	0.0	-9467.9
72	118	0.0	-2800.4	0.0	793.5	0.0	-13014.8
	113	0.0	7986.4	0.0	826.5	0.0	-14761.8
73	118	0.0	-2495.4	0.0	721.2	0.0	-12173.4
	113	0.0	7681.5	0.0	898.8	0.0	-14024.0

Sollecitazioni nelle travi di fondazione

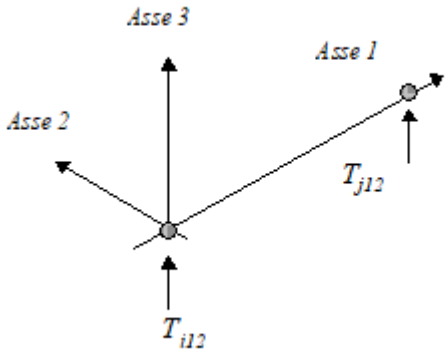
Convenzioni adottate

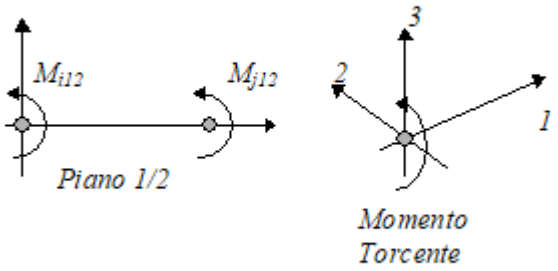
Le sollecitazioni nelle travi di fondazione sono da intendersi nel sistema di riferimento locale dell'elemento, e si riferiscono all'asta. L'orientamento della trave nello spazio è definito a mezzo del nodo *K*.



La terna di riferimento locale dell'asta è così disposta

Per quanto concerne i segni positivi assunti per le varie componenti di sollecitaione si assumono come positivi i versi e le sollecitazioni se così diretti:





La trave è da considerarsi appoggiata su un sottospazio elastico a comportamento bilatero (terreno alla Winkler).

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
1	1	1.0	-1095.1	-10012.7	3184.7
	2	1.1	1276.4	-9164.3	-5672.3
2	1	0.9	-858.0	-7982.6	2989.0
	2	1.0	999.1	-7732.2	-4359.0
3	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
4	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
5	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
6	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
7	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
8	1	0.9	-834.4	-7734.8	2925.4
	2	1.0	972.2	-7521.5	-4194.1
9	1	0.5	-744.1	-5023.4	-2733.0
	2	0.6	784.0	-1842.9	-3995.0
10	1	0.6	-330.5	-7691.7	-3955.0
	2	0.7	493.1	-2921.8	-5459.3
11	1	0.4	-1153.5	-2618.2	-1093.8
	2	0.5	1096.2	-1804.1	-2822.4
12	1	0.5	-739.9	-5286.5	-2315.9
	2	0.6	805.2	-2883.0	-4286.7
13	1	0.4	-1015.5	-2272.7	1666.7
	2	0.5	960.6	-2523.3	-1669.4
14	1	0.5	-905.9	-2341.7	4345.4
	2	0.5	875.6	-4155.0	-905.6
15	1	0.3	-1591.6	695.8	3608.2
	2	0.5	1400.1	-2413.4	50.7
16	1	0.3	-1482.0	626.7	6286.9
	2	0.5	1315.1	-4045.0	814.4
17	1	0.7	-378.7	-5253.7	6196.0
	2	0.7	500.5	-7281.7	-1449.1
18	1	0.8	34.9	-7922.0	4974.0
	2	0.8	209.5	-8360.6	-2913.3
19	1	0.6	-788.1	-2848.5	7835.2
	2	0.7	812.7	-7242.9	-276.5
20	1	0.7	-374.5	-5516.8	6613.1
	2	0.8	521.7	-8321.8	-1740.8
21	1	0.9	363.3	-11167.0	-2406.8
	2	0.8	-9.3	-6119.6	-6550.2
22	1	0.9	473.0	-11236.1	271.9
	2	0.9	-94.4	-7751.3	-5786.4
23	1	0.7	-212.7	-8198.5	-465.3
	2	0.8	430.2	-6009.7	-4830.2
24	1	0.8	-103.1	-8267.6	2213.4
	2	0.8	345.2	-7641.3	-4066.4
25	1	0.7	-748.9	-6953.9	2155.3
	2	0.8	873.7	-6318.0	-3963.3
26	1	0.6	-590.8	-5600.5	2024.9
	2	0.7	688.8	-5363.3	-3087.7
27	1	0.6	-575.1	-5435.3	1982.5

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	2	0.7	670.9	-5222.8	-2977.8
28	1	0.6	-575.1	-5435.3	1982.5
	2	0.7	670.9	-5222.8	-2977.8
29	1	0.6	-575.1	-5435.3	1982.5
	2	0.7	670.9	-5222.8	-2977.8
30	1	0.6	-575.1	-5435.3	1982.5
	2	0.7	670.9	-5222.8	-2977.8
31	1	0.6	-575.1	-5435.3	1982.5
	2	0.7	670.9	-5222.8	-2977.8
32	1	0.6	-575.1	-5435.3	1982.5
	2	0.7	670.9	-5222.8	-2977.8
33	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
34	1	0.6	-565.6	-5336.2	1957.0
	2	0.7	660.1	-5138.5	-2911.9
35	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
36	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
37	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
38	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
39	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
40	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
41	1	0.6	-559.3	-5270.1	1940.1
	2	0.7	652.9	-5082.3	-2867.9
42	1	0.5	-721.9	-5055.4	-2283.5
	2	0.6	767.7	-2164.6	-3889.6
43	1	0.6	-351.8	-7450.4	-3370.6
	2	0.7	507.9	-3136.2	-5202.5
44	1	0.4	-1093.4	-2892.3	-786.7
	2	0.5	1051.2	-2129.6	-2819.2
45	1	0.5	-723.2	-5287.3	-1873.8
	2	0.6	791.3	-3101.2	-4132.1
46	1	0.4	-961.6	-2598.7	1648.3
	2	0.5	922.4	-2777.9	-1809.1
47	1	0.5	-863.6	-2657.9	4059.5
	2	0.6	846.4	-4247.6	-1123.3
48	1	0.3	-1488.8	101.0	3444.3
	2	0.5	1325.7	-2678.5	-236.4
49	1	0.4	-1390.9	41.8	5855.5
	2	0.5	1249.7	-4148.1	449.4
50	1	0.7	-395.4	-5252.9	5754.0
	2	0.7	514.5	-7063.5	-1603.7
51	1	0.8	-25.2	-7647.9	4666.9
	2	0.8	254.6	-8035.1	-2916.5
52	1	0.6	-766.8	-3089.8	7250.7
	2	0.7	797.9	-7028.5	-533.3
53	1	0.7	-396.7	-5484.8	6163.6
	2	0.7	538.0	-8000.0	-1846.1
54	1	0.8	272.3	-10582.0	-1975.4
	2	0.8	56.1	-6016.5	-6185.2
55	1	0.9	370.2	-10641.3	435.9
	2	0.8	-19.9	-7486.2	-5499.4
56	1	0.7	-255.0	-7882.3	-179.4
	2	0.8	459.4	-5917.1	-4612.5
57	1	0.8	-157.0	-7941.6	2231.8
	2	0.8	383.4	-7386.7	-3926.7
58	1	0.5	-750.0	-5017.1	-2993.4
	2	0.6	787.7	-1671.9	-4060.7
59	1	0.6	-316.7	-7818.5	-4267.4
	2	0.7	483.4	-2807.6	-5596.7
60	1	0.4	-1183.6	-2490.1	-1247.6
	2	0.5	1118.5	-1631.0	-2811.5
61	1	0.5	-750.4	-5291.6	-2521.5
	2	0.6	814.2	-2766.7	-4347.5
62	1	0.4	-1031.5	-2140.7	1609.9
	2	0.5	969.6	-2388.6	-1625.4
63	1	0.5	-917.0	-2210.2	4428.4
	2	0.5	880.8	-4106.5	-823.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
64	1	0.3	-1645.8	1008.2	3698.1
	2	0.4	1439.3	-2272.5	207.8
65	1	0.3	-1531.3	938.8	6516.7
	2	0.5	1350.5	-3990.4	1009.6
66	1	0.7	-368.2	-5248.6	6401.6
	2	0.7	491.5	-7398.0	-1388.3
67	1	0.8	65.0	-8050.1	5127.7
	2	0.8	187.2	-8533.7	-2924.3
68	1	0.6	-801.9	-2721.7	8147.5
	2	0.7	822.4	-7357.1	-139.1
69	1	0.7	-368.6	-5523.2	6873.5
	2	0.8	518.1	-8492.8	-1675.1
70	1	0.9	412.7	-11479.0	-2636.5
	2	0.8	-44.7	-6174.3	-6745.3
71	1	1.0	527.2	-11548.5	182.0
	2	0.9	-133.6	-7892.1	-5943.6
72	1	0.7	-201.6	-8330.0	-548.3
	2	0.8	425.0	-6058.2	-4912.1
73	1	0.8	-87.1	-8399.5	2270.2
	2	0.8	336.1	-7776.0	-4110.4
1	2	1.1	-1276.4	9164.3	5672.3
	3	1.2	1281.6	-10161.5	11207.1
2	2	1.0	-999.1	7732.2	4359.0
	3	1.1	1003.2	-8080.1	9449.4
3	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
4	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
5	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
6	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
7	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
8	2	1.0	-972.2	7521.5	4194.1
	3	1.1	976.1	-7771.5	9161.0
9	2	0.6	-784.0	1842.9	3995.0
	3	0.7	786.1	-1558.1	-1181.6
10	2	0.7	-493.1	2921.8	5459.3
	3	0.8	496.7	-3141.3	-196.5
11	2	0.5	-1096.2	1804.1	2822.4
	3	0.7	1097.1	-1347.8	-51.6
12	2	0.6	-805.2	2883.0	4286.7
	3	0.7	807.7	-2931.1	933.5
13	2	0.5	-960.6	2523.3	1669.4
	3	0.6	961.4	-1884.9	1837.4
14	2	0.5	-875.6	4155.0	905.6
	3	0.6	876.6	-3683.7	5601.0
15	2	0.5	-1400.1	2413.4	-50.7
	3	0.5	1399.2	-1524.1	3412.7
16	2	0.5	-1315.1	4045.0	-814.4
	3	0.6	1314.4	-3323.0	7176.3
17	2	0.7	-500.5	7281.7	1449.1
	3	0.7	503.5	-7554.2	11363.8
18	2	0.8	-209.5	8360.6	2913.3
	3	0.8	214.1	-9137.5	12348.8
19	2	0.7	-812.7	7242.9	276.5
	3	0.7	814.4	-7344.0	12493.8
20	2	0.8	-521.7	8321.8	1740.8
	3	0.8	525.1	-8927.3	13478.8
21	2	0.8	9.3	6119.6	6550.2
	3	0.9	-3.2	-7162.3	5121.0
22	2	0.9	94.4	7751.3	5786.4
	3	0.9	-88.0	-8961.2	8884.6
23	2	0.8	-430.2	6009.7	4830.2
	3	0.9	434.6	-6801.6	6696.2
24	2	0.8	-345.2	7641.3	4066.4
	3	0.9	349.8	-8600.5	10459.8
25	2	0.8	-873.7	6318.0	3963.3
	3	0.9	877.2	-7041.7	7704.9
26	2	0.7	-688.8	5363.3	3087.7
	3	0.8	691.6	-5654.2	6533.2

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
27	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
28	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
29	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
30	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
31	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
32	2	0.7	-670.9	5222.8	2977.8
	3	0.8	673.6	-5448.4	6340.9
33	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
34	2	0.7	-660.1	5138.5	2911.9
	3	0.8	662.8	-5325.0	6225.5
35	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
36	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
37	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
38	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
39	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
40	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
41	2	0.7	-652.9	5082.3	2867.9
	3	0.7	655.6	-5242.7	6148.6
42	2	0.6	-767.7	2164.6	3889.6
	3	0.7	769.8	-1924.4	-453.6
43	2	0.7	-507.9	3136.2	5202.5
	3	0.8	511.4	-3350.0	431.6
44	2	0.5	-1051.2	2129.6	2819.2
	3	0.7	1052.2	-1734.3	567.8
45	2	0.6	-791.3	3101.2	4132.1
	3	0.7	793.8	-3159.9	1452.9
46	2	0.5	-922.4	2777.9	1809.1
	3	0.6	923.3	-2219.9	2268.5
47	2	0.6	-846.4	4247.6	1123.3
	3	0.6	847.6	-3840.3	5657.9
48	2	0.5	-1325.7	2678.5	236.4
	3	0.6	1325.1	-1893.2	3688.8
49	2	0.5	-1249.7	4148.1	-449.4
	3	0.6	1249.3	-3513.5	7078.2
50	2	0.7	-514.5	7063.5	1603.7
	3	0.7	517.4	-7325.5	10844.3
51	2	0.8	-254.6	8035.1	2916.5
	3	0.8	258.9	-8751.0	11729.5
52	2	0.7	-797.9	7028.5	533.3
	3	0.7	799.7	-7135.3	11865.6
53	2	0.7	-538.0	8000.0	1846.1
	3	0.8	541.3	-8560.9	12750.8
54	2	0.8	-56.1	6016.5	6185.2
	3	0.9	61.8	-6971.8	5219.1
55	2	0.8	19.9	7486.2	5499.4
	3	0.9	-13.9	-8592.1	8608.4
56	2	0.8	-459.4	5917.1	4612.5
	3	0.9	463.6	-6645.1	6639.4
57	2	0.8	-383.4	7386.7	3926.7
	3	0.9	387.8	-8265.4	10028.7
58	2	0.6	-787.7	1671.9	4060.7
	3	0.7	789.7	-1364.0	-1568.6
59	2	0.7	-483.4	2807.6	5596.7
	3	0.8	487.1	-3030.4	-533.8
60	2	0.5	-1118.5	1631.0	2811.5
	3	0.6	1119.3	-1141.9	-374.8
61	2	0.6	-814.2	2766.7	4347.5
	3	0.7	816.6	-2808.3	660.1
62	2	0.5	-969.6	2388.6	1625.4
	3	0.6	970.3	-1709.1	1612.5
63	2	0.5	-880.8	4106.5	823.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	3	0.6	881.7	-3603.0	5574.3
64	2	0.4	-1439.3	2272.5	-207.8
	3	0.5	1438.2	-1327.6	3273.4
65	2	0.5	-1350.5	3990.4	-1009.6
	3	0.6	1349.6	-3221.5	7235.1
66	2	0.7	-491.5	7398.0	1388.3
	3	0.7	494.5	-7677.0	11637.2
67	2	0.8	-187.2	8533.7	2924.3
	3	0.8	191.9	-9343.5	12672.1
68	2	0.7	-822.4	7357.1	139.1
	3	0.7	824.1	-7455.0	12831.0
69	2	0.8	-518.1	8492.8	1675.1
	3	0.8	521.5	-9121.4	13865.9
70	2	0.8	44.7	6174.3	6745.3
	3	0.9	-38.5	-7263.8	5062.1
71	2	0.9	133.6	7892.1	5943.6
	3	1.0	-127.0	-9157.7	9023.9
72	2	0.8	-425.0	6058.2	4912.1
	3	0.9	429.4	-6882.3	6723.0
73	2	0.8	-336.1	7776.0	4110.4
	3	0.9	340.9	-8776.2	10684.7
1	3	1.2	-102.4	-7228.1	-6631.5
	4	1.4	123.7	-9668.7	11558.3
2	3	1.1	-45.8	-6304.7	-5946.9
	4	1.2	62.0	-8064.1	9459.1
3	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
4	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
5	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
6	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
7	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
8	3	1.1	-41.6	-6157.0	-5820.3
	4	1.2	57.4	-7821.4	9140.4
9	3	0.7	-28.2	-6746.1	-10961.6
	4	0.8	36.6	-1721.7	-2260.8
10	3	0.8	-82.4	-7422.7	-11794.3
	4	0.9	95.3	-2843.7	-803.6
11	3	0.7	-82.4	-6011.4	-9762.1
	4	0.8	89.9	-2181.0	-895.1
12	3	0.7	-136.6	-6688.1	-10594.9
	4	0.9	148.5	-3303.0	562.2
13	3	0.6	86.7	-4215.5	-4888.0
	4	0.6	-82.8	-2240.9	681.2
14	3	0.6	119.1	-2639.4	-731.8
	4	0.6	-114.9	-3886.1	4898.1
15	3	0.5	4.9	-3285.4	-4195.0
	4	0.6	-2.4	-2882.7	2602.1
16	3	0.6	37.3	-1709.3	-38.8
	4	0.6	-34.5	-4527.9	6819.0
17	3	0.7	79.8	-1492.3	2892.2
	4	0.8	-70.4	-7205.8	11795.6
18	3	0.8	25.6	-2168.9	2059.4
	4	0.9	-11.8	-8327.7	13252.9
19	3	0.7	25.6	-757.6	4091.6
	4	0.8	-17.1	-7665.0	13161.3
20	3	0.8	-28.6	-1434.3	3258.8
	4	0.9	41.5	-8787.0	14618.6
21	3	0.9	-94.0	-6471.0	-7663.9
	4	1.1	112.7	-5980.8	5538.7
22	3	0.9	-61.6	-4894.9	-3507.8
	4	1.0	80.6	-7626.0	9755.7
23	3	0.9	-175.9	-5541.0	-6970.9
	4	1.0	193.1	-6622.6	7459.7
24	3	0.9	-143.5	-3964.8	-2814.8
	4	1.0	161.0	-8267.8	11676.6
25	3	0.9	-71.7	-4902.6	-4476.6
	4	1.0	86.4	-6647.7	8003.3
26	3	0.8	-34.0	-4287.0	-4020.3

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	4	0.9	45.3	-5577.9	6603.8
27	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
28	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
29	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
30	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
31	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
32	3	0.8	-31.2	-4188.6	-3935.8
	4	0.9	42.2	-5416.2	6391.4
33	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
34	3	0.8	-29.5	-4129.5	-3885.1
	4	0.9	40.3	-5319.1	6263.9
35	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
36	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
37	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
38	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
39	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
40	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
41	3	0.7	-28.4	-4090.2	-3851.4
	4	0.8	39.1	-5254.4	6178.9
42	3	0.7	-28.2	-6487.3	-10266.1
	4	0.8	36.9	-2072.1	-1422.9
43	3	0.8	-77.0	-7092.3	-11006.3
	4	0.9	89.6	-3082.5	-112.3
44	3	0.7	-77.0	-5818.5	-9171.3
	4	0.8	84.9	-2487.5	-188.4
45	3	0.7	-125.8	-6423.5	-9911.5
	4	0.9	137.6	-3497.9	1122.3
46	3	0.6	75.2	-4218.3	-4816.9
	4	0.7	-70.7	-2539.8	1229.5
47	3	0.6	104.3	-2799.2	-1074.4
	4	0.7	-99.6	-4021.4	5027.0
48	3	0.6	1.4	-3364.5	-4161.0
	4	0.7	1.8	-3119.4	2962.0
49	3	0.6	30.6	-1945.4	-418.5
	4	0.6	-27.1	-4601.0	6759.5
50	3	0.7	69.0	-1756.9	2208.8
	4	0.8	-59.5	-7010.9	11235.5
51	3	0.8	20.3	-2361.9	1468.6
	4	0.9	-6.7	-8021.2	12546.1
52	3	0.7	20.2	-1088.0	3303.6
	4	0.8	-11.5	-7426.2	12470.1
53	3	0.8	-28.6	-1693.0	2563.4
	4	0.9	41.3	-8436.6	13780.7
54	3	0.9	-87.4	-6234.9	-7284.2
	4	1.0	105.2	-5907.7	5598.3
55	3	0.9	-58.2	-4815.8	-3541.8
	4	1.0	76.3	-7389.3	9395.8
56	3	0.9	-161.1	-5381.2	-6628.3
	4	1.0	177.7	-6487.3	7330.8
57	3	0.9	-132.0	-3962.0	-2885.8
	4	1.0	148.8	-7968.9	11128.3
58	3	0.7	-28.2	-6891.1	-11347.0
	4	0.8	36.5	-1534.7	-2706.8
59	3	0.8	-85.2	-7599.3	-12214.5
	4	0.9	98.2	-2715.7	-1174.6
60	3	0.6	-85.2	-6110.5	-10070.0
	4	0.8	92.6	-2020.2	-1263.8
61	3	0.7	-142.3	-6818.7	-10937.4
	4	0.9	154.3	-3201.2	268.4
62	3	0.6	92.7	-4236.3	-4972.4
	4	0.6	-89.2	-2081.4	393.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
63	3	0.6	126.8	-2577.5	-597.9
	4	0.6	-123.0	-3813.2	4831.9
64	3	0.5	6.5	-3242.1	-4213.3
	4	0.6	-4.5	-2758.9	2418.7
65	3	0.6	40.5	-1583.2	161.2
	4	0.6	-38.2	-4490.7	6857.5
66	3	0.7	85.5	-1361.6	3234.7
	4	0.8	-76.1	-7307.6	12089.4
67	3	0.8	28.5	-2069.9	2367.2
	4	0.9	-14.4	-8488.5	13621.6
68	3	0.7	28.4	-581.0	4511.8
	4	0.8	-20.0	-7793.0	13532.4
69	3	0.8	-28.6	-1289.3	3644.3
	4	0.9	41.7	-8974.0	15064.6
70	3	0.9	-97.3	-6597.1	-7863.9
	4	1.1	116.4	-6018.0	5500.2
71	3	1.0	-63.2	-4938.3	-3489.4
	4	1.1	82.6	-7749.8	9939.1
72	3	0.9	-183.6	-5602.8	-7104.8
	4	1.1	201.1	-6695.5	7525.9
73	3	0.9	-149.5	-3944.0	-2730.3
	4	1.0	167.4	-8427.3	11964.7
1	4	1.4	6.5	-10198.4	-11416.5
	5	1.2	18.4	-7991.0	6748.3
2	4	1.2	-32.5	-8555.8	-9416.5
	5	1.1	51.6	-6806.6	5724.7
3	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
4	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
5	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
6	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
7	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
8	4	1.2	-35.3	-8308.7	-9118.0
	5	1.1	53.9	-6620.1	5545.1
9	4	0.8	-12.2	-8239.7	-14296.0
	5	0.7	23.6	-627.3	-5702.6
10	4	0.9	33.3	-9263.9	-15496.3
	5	0.8	-18.3	-1639.4	-4526.9
11	4	0.8	-29.9	-7637.3	-12763.3
	5	0.7	39.8	-1432.3	-3771.9
12	4	0.9	15.6	-8661.5	-13963.7
	5	0.8	-2.1	-2444.4	-2596.2
13	4	0.6	-60.9	-5126.3	-7424.8
	5	0.5	69.9	-1272.7	-1998.5
14	4	0.6	-76.2	-3403.9	-2645.4
	5	0.5	85.3	-2994.8	2695.5
15	4	0.6	-123.2	-4342.1	-5681.6
	5	0.6	127.4	-2443.7	733.2
16	4	0.6	-138.5	-2619.7	-902.2
	5	0.6	142.7	-4165.9	5427.2
17	4	0.8	-63.3	-2498.4	1635.4
	5	0.7	74.9	-6367.8	9944.0
18	4	0.9	-17.8	-3522.5	435.1
	5	0.8	32.9	-7379.9	11119.8
19	4	0.8	-80.9	-1896.0	3168.1
	5	0.7	91.1	-7172.8	11874.7
20	4	0.9	-35.4	-2920.1	1967.7
	5	0.8	49.1	-8184.9	13050.4
21	4	1.1	90.8	-8540.2	-11426.0
	5	0.9	-70.0	-4646.3	1920.7
22	4	1.0	75.5	-6817.8	-6646.6
	5	0.9	-54.6	-6368.5	6614.7
23	4	1.0	28.6	-7755.9	-9682.9
	5	0.9	-12.5	-5817.4	4652.3
24	4	1.0	13.3	-6033.5	-4903.5
	5	1.0	2.8	-7539.5	9346.3
25	4	1.0	5.9	-7004.4	-7895.4
	5	0.9	11.2	-5444.4	4595.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
26	4	0.9	-20.1	-5909.4	-6562.1
	5	0.8	33.4	-4654.8	3913.3
27	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
28	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
29	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
30	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
31	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
32	4	0.9	-22.0	-5744.7	-6363.1
	5	0.8	34.9	-4530.5	3793.6
33	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
34	4	0.9	-23.1	-5645.8	-6243.7
	5	0.8	35.8	-4455.8	3721.8
35	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
36	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
37	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
38	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
39	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
40	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
41	4	0.8	-23.8	-5579.9	-6164.1
	5	0.7	36.4	-4406.1	3673.9
42	4	0.8	-13.0	-7978.1	-13500.7
	5	0.7	24.4	-1002.3	-4770.0
43	4	0.9	27.6	-8898.6	-14570.8
	5	0.8	-12.9	-1913.0	-3716.9
44	4	0.8	-29.7	-7431.4	-12103.9
	5	0.7	39.9	-1730.3	-3024.6
45	4	0.9	10.9	-8351.9	-13174.1
	5	0.8	2.6	-2641.0	-1971.5
46	4	0.7	-55.7	-5178.5	-7336.8
	5	0.6	65.0	-1584.7	-1426.2
47	4	0.7	-69.4	-3627.4	-3032.9
	5	0.6	78.7	-3135.4	2800.6
48	4	0.7	-113.4	-4464.2	-5728.3
	5	0.6	118.4	-2641.2	1037.1
49	4	0.6	-127.1	-2913.1	-1424.4
	5	0.6	132.2	-4191.8	5263.9
50	4	0.8	-58.5	-2807.9	845.8
	5	0.7	70.2	-6171.2	9319.4
51	4	0.9	-18.0	-3728.4	-224.3
	5	0.8	32.9	-7081.9	10372.4
52	4	0.8	-75.2	-2261.3	2242.5
	5	0.7	85.6	-6899.2	11064.7
53	4	0.9	-34.7	-3181.7	1172.4
	5	0.8	48.3	-7809.8	12117.8
54	4	1.0	79.4	-8246.7	-10903.9
	5	0.9	-59.4	-4620.3	2083.9
55	4	1.0	65.8	-6695.7	-6600.0
	5	0.9	-45.7	-6171.0	6310.7
56	4	1.0	21.8	-7532.4	-9295.4
	5	0.9	-6.0	-5676.8	4547.3
57	4	1.0	8.1	-5981.4	-4991.4
	5	0.9	7.7	-7227.4	8774.1
58	4	0.8	-11.2	-8382.6	-14736.9
	5	0.7	22.5	-427.5	-6196.5
59	4	0.9	36.3	-9459.0	-15990.4
	5	0.8	-21.2	-1492.0	-4965.0
60	4	0.8	-30.7	-7744.2	-13107.2
	5	0.7	40.5	-1278.3	-4156.0
61	4	0.9	16.9	-8820.6	-14360.7
	5	0.8	-3.3	-2342.9	-2924.5
62	4	0.6	-61.5	-5109.0	-7526.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	5	0.5	70.2	-1108.0	-2289.7
63	4	0.6	-77.5	-3296.0	-2495.2
	5	0.5	86.3	-2920.6	2651.0
64	4	0.6	-128.5	-4275.8	-5654.8
	5	0.6	132.3	-2343.1	591.7
65	4	0.6	-144.5	-2462.8	-624.0
	5	0.6	148.3	-4155.7	5532.4
66	4	0.8	-64.5	-2339.2	2032.4
	5	0.7	76.0	-6469.3	10272.3
67	4	0.9	-17.0	-3415.7	779.0
	5	0.8	32.3	-7533.9	11503.9
68	4	0.8	-83.9	-1700.9	3662.1
	5	0.7	94.0	-7320.1	12312.8
69	4	0.9	-36.4	-2777.3	2408.6
	5	0.8	50.2	-8384.7	13544.3
70	4	1.1	96.9	-8697.0	-11704.3
	5	0.9	-75.6	-4656.5	1815.4
71	4	1.1	80.9	-6884.0	-6673.5
	5	0.9	-59.5	-6469.1	6756.1
72	4	1.1	29.8	-7863.8	-9833.0
	5	1.0	-13.5	-5891.6	4696.9
73	4	1.0	13.9	-6050.8	-4802.2
	5	1.0	2.5	-7704.1	9637.5
1	6	1.1	757.0	4681.0	8248.2
	5	1.2	-767.8	-6407.8	9013.8
2	6	0.9	593.0	4137.9	6528.6
	5	1.1	-601.5	-4635.8	7119.5
3	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
4	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
5	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
6	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
7	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
8	6	0.9	578.1	4051.1	6284.7
	5	1.1	-586.4	-4370.8	6818.5
9	6	0.6	126.1	5765.0	7934.4
	5	0.7	-132.1	-5632.0	10330.8
10	6	0.7	144.7	6048.1	9110.5
	5	0.8	-152.2	-6816.5	11355.8
11	6	0.7	110.3	5352.7	7695.8
	5	0.7	-116.1	-5426.6	9480.2
12	6	0.8	128.8	5635.8	8872.0
	5	0.8	-136.3	-6611.1	10505.2
13	6	0.5	291.3	3329.7	3649.0
	5	0.5	-295.5	-2020.2	5126.0
14	6	0.4	448.5	1549.9	1160.6
	5	0.5	-452.1	-111.2	1617.5
15	6	0.5	268.7	2974.6	3430.7
	5	0.6	-271.0	-1820.1	4107.0
16	6	0.5	425.9	1194.8	942.4
	5	0.6	-427.5	88.9	598.5
17	6	0.5	650.1	-167.6	-360.1
	5	0.7	-654.0	731.5	-1364.1
18	6	0.6	668.7	115.6	816.0
	5	0.8	-674.1	-453.0	-339.1
19	6	0.6	634.3	-579.8	-598.7
	5	0.7	-638.0	936.9	-2214.6
20	6	0.7	652.8	-296.7	577.4
	5	0.8	-658.2	-247.6	-1189.6
21	6	0.8	353.1	4273.5	7569.5
	5	0.9	-362.7	-5968.6	8542.6
22	6	0.8	510.3	2493.7	5081.1
	5	0.9	-519.3	-4059.5	5034.1
23	6	0.9	330.5	3918.4	7351.2
	5	0.9	-338.2	-5768.5	7523.6
24	6	0.8	487.7	2138.6	4862.9
	5	1.0	-494.8	-3859.4	4015.1
25	6	0.7	518.7	3212.0	5727.5

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	5	0.9	-526.1	-4474.5	6234.8
26	6	0.7	409.3	2849.9	4581.1
	5	0.8	-415.2	-3293.2	4971.9
27	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
28	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
29	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
30	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
31	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
32	6	0.7	399.4	2792.0	4418.5
	5	0.8	-405.2	-3116.5	4771.2
33	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
34	6	0.7	393.4	2757.3	4320.9
	5	0.8	-399.1	-3010.5	4650.8
35	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
36	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
37	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
38	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
39	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
40	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
41	6	0.6	389.5	2734.1	4255.9
	5	0.7	-395.1	-2939.8	4570.6
42	6	0.6	152.4	5467.7	7570.0
	5	0.7	-158.3	-5365.5	9763.3
43	6	0.7	169.0	5719.4	8628.9
	5	0.8	-176.4	-6431.9	10682.8
44	6	0.7	138.0	5091.6	7353.7
	5	0.7	-143.8	-5179.2	8990.6
45	6	0.8	154.6	5343.3	8412.5
	5	0.8	-161.9	-6245.7	9910.2
46	6	0.5	301.3	3281.6	3711.2
	5	0.6	-305.7	-2113.3	5083.6
47	6	0.5	442.9	1678.8	1470.0
	5	0.6	-446.7	-393.9	1924.0
48	6	0.5	280.7	2950.5	3512.3
	5	0.6	-283.3	-1931.0	4152.1
49	6	0.5	422.3	1347.7	1271.1
	5	0.6	-424.3	-211.6	992.4
50	6	0.5	624.3	125.0	99.3
	5	0.7	-628.4	366.0	-769.0
51	6	0.6	641.0	376.7	1158.1
	5	0.8	-646.5	-700.4	150.5
52	6	0.6	610.0	-251.1	-117.0
	5	0.7	-613.9	552.2	-1541.7
53	6	0.7	626.6	0.6	941.8
	5	0.8	-632.0	-514.2	-622.1
54	6	0.8	356.7	4120.6	7240.7
	5	0.9	-365.9	-5668.1	8148.7
55	6	0.8	498.3	2517.8	4999.5
	5	0.9	-507.0	-3948.6	4989.0
56	6	0.8	336.0	3789.5	7041.8
	5	0.9	-343.6	-5485.8	7217.2
57	6	0.8	477.6	2186.7	4800.6
	5	0.9	-484.6	-3766.4	4057.5
58	6	0.6	112.3	5928.5	8129.5
	5	0.7	-118.3	-5774.9	10639.2
59	6	0.7	131.7	6223.5	9367.3
	5	0.8	-139.4	-7021.6	11714.9
60	6	0.7	95.5	5489.8	7876.8
	5	0.7	-101.3	-5557.4	9737.2
61	6	0.8	115.0	5784.7	9114.6
	5	0.8	-122.5	-6804.1	10812.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
62	6	0.5	286.4	3371.4	3618.8
	5	0.5	-290.5	-1973.3	5167.3
63	6	0.4	451.9	1497.9	999.1
	5	0.5	-455.3	36.5	1474.0
64	6	0.5	262.3	2987.1	3386.8
	5	0.6	-264.4	-1760.7	4081.5
65	6	0.5	427.8	1113.6	767.1
	5	0.6	-429.2	249.1	388.2
66	6	0.5	664.0	-316.4	-602.8
	5	0.7	-667.7	924.4	-1671.7
67	6	0.6	683.4	-21.5	635.0
	5	0.8	-688.9	-322.2	-596.0
68	6	0.6	647.2	-755.2	-855.4
	5	0.7	-650.8	1141.9	-2573.8
69	6	0.7	666.7	-460.2	382.3
	5	0.8	-672.0	-104.7	-1498.1
70	6	0.8	351.2	4354.7	7744.7
	5	0.9	-361.0	-6128.8	8752.9
71	6	0.8	516.7	2481.2	5125.1
	5	0.9	-525.8	-4119.0	5059.7
72	6	0.9	327.1	3970.4	7512.7
	5	1.0	-334.9	-5916.2	7667.1
73	6	0.8	492.6	2096.9	4893.0
	5	1.0	-499.8	-3906.4	3973.9
1	7	1.1	608.3	-8946.7	3272.0
	6	1.1	-757.0	-4681.0	-8248.2
2	7	1.0	475.4	-7000.9	3174.2
	6	0.9	-593.0	-4137.9	-6528.6
3	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
4	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
5	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
6	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
7	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
8	7	0.9	463.3	-6768.8	3103.5
	6	0.9	-578.1	-4051.1	-6284.7
9	7	0.8	43.5	-2025.9	13132.7
	6	0.6	-126.1	-5765.0	-7934.4
10	7	0.9	4.2	-4244.5	11777.4
	6	0.7	-144.7	-6048.1	-9110.5
11	7	0.8	4.6	-3137.4	10701.9
	6	0.7	-110.3	-5352.7	-7695.8
12	7	0.9	-34.7	-5356.0	9346.7
	6	0.8	-128.8	-5635.8	-8872.0
13	7	0.5	319.2	361.2	8780.2
	6	0.5	-291.3	-3329.7	-3649.0
14	7	0.4	503.6	-190.2	3272.7
	6	0.4	-448.5	-1549.9	-1160.6
15	7	0.5	251.0	-1634.2	5365.7
	6	0.5	-268.7	-2974.6	-3430.7
16	7	0.4	435.4	-2185.6	-141.8
	6	0.5	-425.9	-1194.8	-942.4
17	7	0.4	658.2	-3863.8	-5225.7
	6	0.5	-650.1	167.6	360.1
18	7	0.5	618.9	-6082.4	-6580.9
	6	0.6	-668.7	-115.6	-816.0
19	7	0.4	619.3	-4975.2	-7656.5
	6	0.6	-634.3	579.8	598.7
20	7	0.6	580.0	-7193.8	-9011.7
	6	0.7	-652.8	296.7	-577.4
21	7	0.9	188.1	-7034.2	4262.8
	6	0.8	-353.1	-4273.5	-7569.5
22	7	0.8	372.5	-7585.5	-1244.7
	6	0.8	-510.3	-2493.7	-5081.1
23	7	0.9	119.9	-9029.5	848.3
	6	0.9	-330.5	-3918.4	-7351.2
24	7	0.8	304.3	-9580.9	-4659.2
	6	0.8	-487.7	-2138.6	-4862.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
25	7	0.8	416.5	-6216.6	2219.9
	6	0.7	-518.7	-3212.0	-5727.5
26	7	0.7	327.9	-4919.4	2154.7
	6	0.7	-409.3	-2849.9	-4581.1
27	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
28	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
29	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
30	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
31	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
32	7	0.7	319.8	-4764.6	2107.6
	6	0.7	-399.4	-2792.0	-4418.5
33	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
34	7	0.7	315.0	-4671.8	2079.3
	6	0.7	-393.4	-2757.3	-4320.9
35	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
36	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
37	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
38	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
39	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
40	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
41	7	0.7	311.7	-4609.9	2060.5
	6	0.6	-389.5	-2734.1	-4255.9
42	7	0.7	70.1	-2282.5	12030.7
	6	0.6	-152.4	-5467.7	-7570.0
43	7	0.9	34.8	-4279.7	10818.8
	6	0.7	-169.0	-5719.4	-8628.9
44	7	0.8	35.0	-3294.5	9832.8
	6	0.7	-138.0	-5091.6	-7353.7
45	7	0.9	-0.4	-5291.8	8620.9
	6	0.8	-154.6	-5343.3	-8412.5
46	7	0.5	318.4	-133.0	8099.9
	6	0.5	-301.3	-3281.6	-3711.2
47	7	0.4	484.5	-626.6	3140.7
	6	0.5	-442.9	-1678.8	-1470.0
48	7	0.6	256.9	-1935.5	5019.9
	6	0.5	-280.7	-2950.5	-3512.3
49	7	0.5	423.0	-2429.2	60.8
	6	0.5	-422.3	-1347.7	-1271.1
50	7	0.4	623.8	-3927.9	-4499.9
	6	0.5	-624.3	-125.0	-99.3
51	7	0.5	588.5	-5925.2	-5711.8
	6	0.6	-641.0	-376.7	-1158.1
52	7	0.5	588.7	-4940.0	-6697.8
	6	0.6	-610.0	251.1	117.0
53	7	0.6	553.3	-6937.3	-7909.7
	6	0.7	-626.6	-0.6	-941.8
54	7	0.9	200.5	-6790.6	4060.2
	6	0.8	-356.7	-4120.6	-7240.7
55	7	0.8	366.6	-7284.2	-898.9
	6	0.8	-498.3	-2517.8	-4999.5
56	7	0.9	139.0	-8593.1	980.3
	6	0.8	-336.0	-3789.5	-7041.8
57	7	0.8	305.1	-9086.7	-3978.9
	6	0.8	-477.6	-2186.7	-4800.6
58	7	0.8	29.3	-1889.4	13715.2
	6	0.6	-112.3	-5928.5	-8129.5
59	7	0.9	-12.0	-4224.0	12297.7
	6	0.7	-131.7	-6223.5	-9367.3
60	7	0.8	-11.7	-3071.8	11145.7
	6	0.7	-95.5	-5489.8	-7876.8
61	7	0.9	-53.1	-5406.4	9728.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	6	0.8	-115.0	-5784.7	-9114.6
62	7	0.5	319.5	623.2	9122.9
	6	0.5	-286.4	-3371.4	-3618.8
63	7	0.4	513.7	46.0	3326.2
	6	0.4	-451.9	-1497.9	-999.1
64	7	0.5	247.6	-1483.7	5519.8
	6	0.5	-262.3	-2987.1	-3386.8
65	7	0.4	441.8	-2060.9	-276.9
	6	0.5	-427.8	-1113.6	-767.1
66	7	0.4	676.5	-3813.4	-5607.2
	6	0.5	-664.0	316.4	602.8
67	7	0.5	635.2	-6148.0	-7024.7
	6	0.6	-683.4	21.5	-635.0
68	7	0.4	635.5	-4995.7	-8176.7
	6	0.6	-647.2	755.2	855.4
69	7	0.6	594.1	-7330.3	-9594.2
	6	0.7	-666.7	460.2	-382.3
70	7	0.9	181.7	-7158.8	4397.9
	6	0.8	-351.2	-4354.7	-7744.7
71	7	0.8	375.8	-7736.0	-1398.8
	6	0.8	-516.7	-2481.2	-5125.1
72	7	1.0	109.8	-9265.7	794.8
	6	0.9	-327.1	-3970.4	-7512.7
73	7	0.8	303.9	-9842.9	-5001.9
	6	0.8	-492.6	-2096.9	-4893.0
1	8	0.8	-1388.7	-11755.7	-2032.2
	9	0.7	1565.2	-13672.6	9461.9
2	8	0.7	-1224.5	-10440.6	-1404.0
	9	0.7	1368.8	-13171.6	9981.0
3	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
4	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
5	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
6	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
7	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
8	8	0.7	-1199.1	-10252.6	-1413.7
	9	0.7	1340.0	-12897.4	9775.1
9	8	0.5	-926.7	-7493.2	-5407.5
	9	0.5	859.0	-6912.5	3280.1
10	8	0.4	-720.8	-7434.7	-5232.0
	9	0.5	869.5	-6855.3	3091.5
11	8	0.5	-1212.6	-7559.8	-5443.8
	9	0.5	1213.1	-6953.4	3385.0
12	8	0.5	-1006.7	-7501.4	-5268.4
	9	0.5	1223.5	-6896.2	3196.5
13	8	0.5	-1063.8	-7146.5	-2538.4
	9	0.5	633.0	-8262.9	5867.0
14	8	0.5	-968.9	-6798.7	91.6
	9	0.5	550.7	-9334.2	7861.3
15	8	0.5	-1334.8	-7231.5	-2585.7
	9	0.5	1222.6	-8235.9	5891.2
16	8	0.5	-1240.0	-6883.7	44.3
	9	0.5	1140.3	-9307.1	7885.5
17	8	0.6	-610.7	-6333.9	3359.2
	9	0.5	584.7	-10483.3	9927.6
18	8	0.6	-404.7	-6275.4	3534.6
	9	0.5	595.1	-10426.2	9739.0
19	8	0.6	-896.5	-6400.6	3322.8
	9	0.5	938.7	-10524.2	10032.5
20	8	0.6	-690.6	-6342.1	3498.3
	9	0.5	949.2	-10467.1	9844.0
21	8	0.5	-377.4	-6951.5	-1953.5
	9	0.5	667.9	-8072.4	5238.6
22	8	0.5	-282.5	-6603.8	676.5
	9	0.5	585.6	-9143.6	7232.8
23	8	0.5	-648.4	-7036.6	-2000.9
	9	0.5	1257.5	-8045.4	5262.8
24	8	0.5	-553.6	-6688.8	629.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	9	0.5	1175.2	-9116.6	7257.0
25	8	0.6	-952.0	-8045.1	-1360.5
	9	0.5	1073.5	-9389.3	6490.5
26	8	0.5	-842.5	-7168.4	-941.7
	9	0.5	942.5	-9055.3	6836.5
27	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
28	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
29	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
30	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
31	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
32	8	0.5	-825.6	-7043.0	-948.1
	9	0.5	923.3	-8872.5	6699.3
33	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
34	8	0.5	-815.4	-6967.8	-952.0
	9	0.5	911.8	-8762.9	6616.9
35	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
36	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
37	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
38	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
39	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
40	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
41	8	0.5	-808.7	-6917.6	-954.6
	9	0.5	904.1	-8689.8	6562.0
42	8	0.5	-911.3	-7435.5	-4965.3
	9	0.5	863.8	-7088.7	3605.4
43	8	0.5	-728.4	-7383.4	-4807.4
	9	0.5	872.0	-7037.4	3435.9
44	8	0.5	-1171.4	-7496.2	-4998.2
	9	0.5	1181.4	-7125.9	3700.8
45	8	0.5	-988.5	-7444.0	-4840.3
	9	0.5	1189.6	-7074.6	3531.3
46	8	0.5	-1029.7	-7122.1	-2380.5
	9	0.5	664.1	-8304.7	5934.8
47	8	0.5	-945.0	-6808.9	-11.6
	9	0.5	590.6	-9269.6	7731.0
48	8	0.5	-1282.1	-7200.4	-2423.8
	9	0.5	1190.3	-8281.0	5958.0
49	8	0.5	-1197.4	-6887.1	-54.9
	9	0.5	1116.7	-9245.8	7754.2
50	8	0.6	-628.8	-6391.3	2931.1
	9	0.5	618.6	-10304.9	9592.8
51	8	0.6	-445.9	-6339.1	3088.9
	9	0.5	626.8	-10253.6	9423.3
52	8	0.6	-889.0	-6451.9	2898.2
	9	0.5	936.2	-10342.2	9688.1
53	8	0.6	-706.1	-6399.7	3056.0
	9	0.5	944.4	-10290.8	9518.6
54	8	0.5	-420.0	-6948.2	-1854.3
	9	0.5	691.5	-8133.7	5369.9
55	8	0.5	-335.2	-6634.9	514.6
	9	0.5	617.9	-9098.6	7166.1
56	8	0.5	-672.4	-7026.4	-1897.6
	9	0.5	1217.6	-8109.9	5393.0
57	8	0.5	-587.7	-6713.2	471.3
	9	0.5	1144.1	-9074.8	7189.2
58	8	0.4	-929.2	-7523.1	-5642.6
	9	0.5	856.6	-6818.4	3106.2
59	8	0.4	-714.8	-7462.0	-5458.0
	9	0.5	866.5	-6758.3	2908.0
60	8	0.5	-1232.8	-7593.9	-5681.0
	9	0.5	1228.3	-6861.8	3217.6

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
61	8	0.4	-1018.4	-7532.7	-5496.5
	9	0.5	1238.2	-6801.8	3019.4
62	8	0.5	-1069.0	-7157.1	-2621.4
	9	0.5	622.5	-8239.9	5829.2
63	8	0.5	-970.0	-6790.9	147.5
	9	0.5	536.5	-9367.7	7928.7
64	8	0.5	-1362.1	-7248.1	-2671.9
	9	0.5	1238.6	-8211.9	5856.0
65	8	0.5	-1263.0	-6882.0	97.0
	9	0.5	1152.7	-9339.7	7955.5
66	8	0.6	-599.0	-6302.6	3587.2
	9	0.5	570.0	-10577.7	10104.7
67	8	0.6	-384.6	-6241.4	3771.8
	9	0.5	579.9	-10517.7	9906.5
68	8	0.6	-902.6	-6373.3	3548.8
	9	0.5	941.7	-10621.2	10216.0
69	8	0.6	-688.2	-6312.2	3733.3
	9	0.5	951.6	-10561.2	10017.8
70	8	0.5	-354.3	-6953.3	-2006.3
	9	0.5	655.5	-8039.8	5168.5
71	8	0.5	-255.3	-6587.1	762.7
	9	0.5	569.6	-9167.6	7268.1
72	8	0.5	-647.4	-7044.4	-2056.7
	9	0.5	1271.7	-8011.9	5195.3
73	8	0.5	-548.4	-6678.2	712.2
	9	0.5	1185.7	-9139.7	7294.9
1	9	0.7	-299.2	-12442.3	-10847.2
	10	0.8	558.9	-13770.3	12255.4
2	9	0.7	-313.2	-12074.3	-10823.6
	10	0.8	533.3	-13076.8	11536.9
3	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
4	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
5	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
6	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
7	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
8	9	0.7	-291.5	-11809.0	-10584.8
	10	0.8	505.9	-12759.3	11236.8
9	9	0.5	-113.8	-9474.3	-11253.0
	10	0.5	216.4	-7199.8	4058.1
10	9	0.5	-276.0	-9514.1	-11136.3
	10	0.6	469.5	-7488.1	4482.1
11	9	0.5	-380.3	-9460.3	-11080.3
	10	0.5	467.3	-7204.3	4054.1
12	9	0.5	-542.4	-9500.1	-10963.6
	10	0.6	720.3	-7492.6	4478.1
13	9	0.5	223.2	-8323.8	-8602.0
	10	0.5	-220.5	-7790.1	5959.3
14	9	0.5	293.1	-7405.5	-6196.0
	10	0.5	-287.1	-8573.4	7982.0
15	9	0.5	-176.0	-8375.2	-8389.3
	10	0.5	158.4	-7768.8	5883.1
16	9	0.5	-106.2	-7457.0	-5983.2
	10	0.5	91.9	-8552.1	7905.8
17	9	0.5	119.0	-6413.4	-3232.7
	10	0.5	-5.5	-9810.6	10800.5
18	9	0.5	-43.1	-6453.2	-3116.0
	10	0.5	247.6	-10098.9	11224.5
19	9	0.5	-147.4	-6399.4	-3060.0
	10	0.5	245.4	-9815.1	10796.5
20	9	0.5	-309.6	-6439.2	-2943.3
	10	0.5	498.4	-10103.4	11220.5
21	9	0.5	-317.3	-8456.5	-8213.1
	10	0.6	623.0	-8751.2	7372.8
22	9	0.5	-247.4	-7538.3	-5807.0
	10	0.6	556.4	-9534.4	9395.5
23	9	0.5	-716.5	-8508.0	-8000.4
	10	0.6	1001.9	-8729.9	7296.5

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
24	9	0.5	-646.6	-7589.7	-5594.3
	10	0.6	935.4	-9513.1	9319.3
25	9	0.5	-231.3	-8555.8	-7432.3
	10	0.6	411.1	-9537.3	8518.4
26	9	0.5	-240.6	-8310.5	-7416.5
	10	0.6	394.0	-9075.0	8039.4
27	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
28	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
29	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
30	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
31	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
32	9	0.5	-226.2	-8133.6	-7257.3
	10	0.5	375.7	-8863.3	7839.4
33	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
34	9	0.5	-217.5	-8027.5	-7161.8
	10	0.5	364.7	-8736.3	7719.3
35	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
36	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
37	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
38	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
39	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
40	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
41	9	0.5	-211.7	-7956.8	-7098.2
	10	0.5	357.4	-8651.6	7639.3
42	9	0.5	-123.1	-9323.7	-10840.5
	10	0.5	229.9	-7343.9	4413.6
43	9	0.5	-268.4	-9359.5	-10735.8
	10	0.6	457.5	-7603.6	4795.5
44	9	0.5	-363.3	-9310.9	-10684.4
	10	0.5	456.0	-7348.1	4410.1
45	9	0.5	-508.6	-9346.7	-10579.6
	10	0.6	683.6	-7607.7	4792.0
46	9	0.5	179.1	-8287.5	-8452.2
	10	0.5	-162.8	-7875.7	6126.3
47	9	0.5	241.5	-7460.5	-6285.1
	10	0.5	-222.4	-8581.2	7948.2
48	9	0.5	-180.8	-8333.7	-8260.4
	10	0.5	178.7	-7856.5	6057.5
49	9	0.5	-118.4	-7506.6	-6093.3
	10	0.5	119.1	-8562.0	7879.5
50	9	0.5	85.1	-6566.8	-3616.7
	10	0.5	31.3	-9695.5	10486.6
51	9	0.5	-60.1	-6602.6	-3511.9
	10	0.5	258.9	-9955.2	10868.5
52	9	0.5	-155.0	-6554.0	-3460.6
	10	0.5	257.4	-9699.7	10483.1
53	9	0.5	-300.3	-6589.8	-3355.8
	10	0.5	485.0	-9959.3	10865.0
54	9	0.5	-305.1	-8406.9	-8103.0
	10	0.6	595.7	-8741.3	7399.1
55	9	0.5	-242.6	-7579.8	-5935.9
	10	0.6	536.2	-9446.7	9221.0
56	9	0.5	-665.0	-8453.1	-7911.2
	10	0.6	937.3	-8722.0	7330.4
57	9	0.5	-602.5	-7626.0	-5744.1
	10	0.6	877.7	-9427.5	9152.3
58	9	0.5	-108.1	-9554.5	-11472.5
	10	0.5	208.3	-7123.1	3868.9
59	9	0.5	-277.9	-9596.4	-11350.0
	10	0.6	474.3	-7426.6	4315.2
60	9	0.5	-389.0	-9539.6	-11290.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	10	0.5	472.7	-7127.9	3864.8
61	9	0.5	-558.8	-9581.5	-11167.5
	10	0.6	738.7	-7431.4	4311.2
62	9	0.5	245.3	-8343.4	-8681.0
	10	0.5	-250.8	-7744.7	5870.7
63	9	0.5	318.4	-7376.6	-6147.9
	10	0.5	-320.5	-8569.3	8000.3
64	9	0.5	-175.6	-8397.3	-8456.7
	10	0.5	148.5	-7722.3	5790.4
65	9	0.5	-102.6	-7430.6	-5923.6
	10	0.5	78.9	-8546.9	7920.0
66	9	0.5	135.4	-6332.1	-3028.8
	10	0.5	-23.9	-9871.8	10967.4
67	9	0.5	-34.4	-6373.9	-2906.3
	10	0.5	242.2	-10175.3	11413.8
68	9	0.5	-145.5	-6317.1	-2846.3
	10	0.5	240.5	-9876.6	10963.4
69	9	0.5	-315.3	-6359.0	-2723.8
	10	0.5	506.6	-10180.1	11409.7
70	9	0.5	-320.8	-8482.9	-8272.7
	10	0.6	636.0	-8756.4	7358.6
71	9	0.5	-247.8	-7516.2	-5739.6
	10	0.6	566.3	-9581.0	9488.1
72	9	0.5	-741.8	-8536.9	-8048.4
	10	0.6	1035.3	-8734.0	7278.3
73	9	0.5	-668.8	-7570.1	-5515.3
	10	0.6	965.7	-9558.6	9407.9
1	10	0.8	195.8	-7947.5	-10885.2
	11	0.7	-191.4	4173.5	-3543.5
2	10	0.8	201.0	-7505.9	-10255.0
	11	0.7	-197.3	3917.5	-3343.1
3	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
4	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
5	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
6	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
7	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
8	10	0.8	194.5	-7317.6	-9996.1
	11	0.7	-190.9	3829.7	-3273.1
9	10	0.5	158.3	-6035.5	-9272.9
	11	0.5	-155.6	3699.5	-2320.8
10	10	0.6	218.4	-6259.5	-9688.1
	11	0.5	-215.2	3847.4	-2347.4
11	10	0.5	139.9	-5991.4	-9169.5
	11	0.5	-138.4	3661.0	-2327.0
12	10	0.6	200.1	-6215.4	-9584.7
	11	0.5	-198.0	3808.8	-2353.6
13	10	0.5	77.7	-4930.3	-6926.1
	11	0.5	-74.4	2721.0	-2183.5
14	10	0.5	51.0	-4214.4	-5345.6
	11	0.5	-47.6	2038.5	-2095.8
15	10	0.5	17.8	-4903.8	-6859.8
	11	0.5	-18.2	2702.0	-2197.5
16	10	0.5	-9.0	-4188.0	-5279.4
	11	0.5	8.5	2019.4	-2109.7
17	10	0.5	69.2	-3649.4	-4004.7
	11	0.5	-66.4	1424.3	-2028.4
18	10	0.5	129.3	-3873.4	-4419.9
	11	0.5	-126.0	1572.1	-2055.0
19	10	0.5	50.8	-3605.3	-3901.3
	11	0.5	-49.2	1385.8	-2034.5
20	10	0.5	110.9	-3829.3	-4316.5
	11	0.5	-108.7	1533.6	-2061.2
21	10	0.6	278.2	-5676.9	-8310.0
	11	0.5	-272.9	3213.7	-2272.2
22	10	0.6	251.4	-4961.0	-6729.6
	11	0.5	-246.1	2531.1	-2184.5
23	10	0.6	218.2	-5650.4	-8243.8

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	11	0.5	-216.8	3194.6	-2286.2
24	10	0.6	191.5	-4934.5	-6663.3
	11	0.5	-190.0	2512.1	-2198.5
25	10	0.6	139.8	-5477.9	-7560.0
	11	0.5	-136.7	2904.3	-2418.0
26	10	0.6	143.2	-5183.4	-7139.8
	11	0.5	-140.7	2733.7	-2284.3
27	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
28	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
29	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
30	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
31	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
32	10	0.5	138.9	-5057.9	-6967.3
	11	0.5	-136.4	2675.1	-2237.7
33	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
34	10	0.5	136.3	-4982.6	-6863.7
	11	0.5	-133.9	2640.0	-2209.7
35	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
36	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
37	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
38	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
39	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
40	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
41	10	0.5	134.6	-4932.4	-6794.7
	11	0.5	-132.2	2616.6	-2191.0
42	10	0.5	156.7	-5926.2	-9027.2
	11	0.5	-154.0	3592.2	-2307.9
43	10	0.6	210.1	-6127.8	-9401.0
	11	0.5	-206.9	3725.2	-2331.9
44	10	0.5	138.7	-5886.1	-8933.4
	11	0.5	-137.1	3557.2	-2313.5
45	10	0.6	192.1	-6087.8	-9307.2
	11	0.5	-190.0	3690.2	-2337.5
46	10	0.5	85.9	-4930.9	-6913.9
	11	0.5	-82.5	2711.0	-2184.3
47	10	0.5	62.0	-4286.1	-5490.4
	11	0.5	-58.6	2096.2	-2105.2
48	10	0.5	29.2	-4906.6	-6853.2
	11	0.5	-29.4	2693.4	-2196.8
49	10	0.5	5.4	-4261.8	-5429.7
	11	0.5	-5.5	2078.6	-2117.8
50	10	0.5	77.1	-3777.0	-4282.2
	11	0.5	-74.4	1542.9	-2044.5
51	10	0.5	130.5	-3978.7	-4655.9
	11	0.5	-127.3	1675.9	-2068.5
52	10	0.5	59.2	-3737.0	-4188.4
	11	0.5	-57.5	1507.9	-2050.1
53	10	0.5	112.6	-3938.6	-4562.1
	11	0.5	-110.4	1640.9	-2074.0
54	10	0.6	263.9	-5603.0	-8159.7
	11	0.5	-258.9	3154.5	-2264.2
55	10	0.6	240.0	-4958.2	-6736.2
	11	0.5	-235.0	2539.7	-2185.1
56	10	0.6	207.2	-5578.7	-8099.0
	11	0.5	-205.7	3136.9	-2276.7
57	10	0.6	183.4	-4933.9	-6675.5
	11	0.5	-181.9	2522.1	-2197.7
58	10	0.5	160.2	-6094.0	-9404.2
	11	0.5	-157.5	3756.9	-2327.7
59	10	0.6	222.8	-6329.7	-9841.1
	11	0.5	-219.5	3912.4	-2355.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
60	10	0.5	139.4	-6047.2	-9294.6
	11	0.5	-137.9	3716.0	-2334.2
61	10	0.6	202.0	-6282.9	-9731.5
	11	0.5	-199.9	3871.6	-2362.2
62	10	0.5	77.0	-4930.5	-6933.8
	11	0.5	-73.5	2726.9	-2183.1
63	10	0.5	49.1	-4176.9	-5269.9
	11	0.5	-45.6	2008.3	-2090.7
64	10	0.5	11.4	-4902.2	-6863.1
	11	0.5	-12.0	2706.4	-2197.8
65	10	0.5	-16.5	-4148.6	-5199.2
	11	0.5	15.9	1987.8	-2105.4
66	10	0.5	67.2	-3581.9	-3857.9
	11	0.5	-64.4	1361.5	-2019.8
67	10	0.5	129.8	-3817.6	-4294.8
	11	0.5	-126.4	1517.1	-2047.8
68	10	0.5	46.4	-3535.1	-3748.3
	11	0.5	-44.9	1320.7	-2026.3
69	10	0.5	109.0	-3770.8	-4185.2
	11	0.5	-106.9	1476.2	-2054.3
70	10	0.6	285.7	-5716.2	-8390.2
	11	0.5	-280.3	3245.3	-2276.5
71	10	0.6	257.8	-4962.6	-6726.3
	11	0.5	-252.3	2526.7	-2184.2
72	10	0.6	220.1	-5687.9	-8319.4
	11	0.5	-218.7	3224.8	-2291.2
73	10	0.6	192.2	-4934.3	-6655.5
	11	0.5	-190.8	2506.2	-2198.9
1	11	0.7	191.4	-4173.5	3543.5
	12	0.7	-46.5	-11527.6	9100.0
2	11	0.7	197.3	-3917.5	3343.1
	12	0.7	-79.5	-11127.9	9050.9
3	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
4	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
5	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
6	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
7	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
8	11	0.7	190.9	-3829.7	3273.1
	12	0.7	-76.3	-10850.0	8791.8
9	11	0.5	155.6	-3699.5	2320.8
	12	0.4	-153.7	-5729.6	1436.5
10	11	0.5	215.2	-3847.4	2347.4
	12	0.5	-92.8	-5785.1	1226.9
11	11	0.5	138.4	-3661.0	2327.0
	12	0.5	-117.5	-5824.6	1588.1
12	11	0.5	198.0	-3808.8	2353.6
	12	0.5	-56.6	-5880.1	1378.5
13	11	0.5	74.4	-2721.0	2183.5
	12	0.5	-231.0	-6705.0	4873.2
14	11	0.5	47.6	-2038.5	2095.8
	12	0.5	-200.5	-7605.8	7557.6
15	11	0.5	18.2	-2702.0	2197.5
	12	0.5	-111.2	-6821.5	4904.0
16	11	0.5	-8.5	-2019.4	2109.7
	12	0.5	-80.7	-7722.3	7588.4
17	11	0.5	66.4	-1424.3	2028.4
	12	0.5	-52.0	-8732.2	10384.4
18	11	0.5	126.0	-1572.1	2055.0
	12	0.5	8.9	-8787.7	10174.8
19	11	0.5	49.2	-1385.8	2034.5
	12	0.5	-15.8	-8827.2	10536.0
20	11	0.5	108.7	-1533.6	2061.2
	12	0.5	45.1	-8882.7	10326.3
21	11	0.5	272.9	-3213.7	2272.2
	12	0.5	-27.9	-6890.0	4174.5
22	11	0.5	246.1	-2531.1	2184.5
	12	0.5	2.6	-7790.8	6858.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
23	11	0.5	216.8	-3194.6	2286.2
	12	0.5	91.9	-7006.5	4205.3
24	11	0.5	190.0	-2512.1	2198.5
	12	0.5	122.4	-7907.2	6889.6
25	11	0.5	136.7	-2904.3	2418.0
	12	0.5	-36.5	-7943.0	6259.6
26	11	0.5	140.7	-2733.7	2284.3
	12	0.5	-58.5	-7676.6	6226.9
27	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
28	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
29	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
30	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
31	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
32	11	0.5	136.4	-2675.1	2237.7
	12	0.5	-56.4	-7491.4	6054.2
33	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
34	11	0.5	133.9	-2640.0	2209.7
	12	0.5	-55.2	-7380.2	5950.5
35	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
36	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
37	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
38	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
39	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
40	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
41	11	0.5	132.2	-2616.6	2191.0
	12	0.5	-54.3	-7306.1	5881.4
42	11	0.5	154.0	-3592.2	2307.9
	12	0.5	-143.5	-5886.1	1877.0
43	11	0.5	206.9	-3725.2	2331.9
	12	0.5	-89.1	-5935.9	1688.8
44	11	0.5	137.1	-3557.2	2313.5
	12	0.5	-110.2	-5972.0	2014.8
45	11	0.5	190.0	-3690.2	2337.5
	12	0.5	-55.8	-6021.7	1826.6
46	11	0.5	82.5	-2711.0	2184.3
	12	0.5	-212.5	-6765.1	4971.4
47	11	0.5	58.6	-2096.2	2105.2
	12	0.5	-185.3	-7576.4	7389.1
48	11	0.5	29.4	-2693.4	2196.8
	12	0.5	-104.7	-6870.1	5001.2
49	11	0.5	5.5	-2078.6	2117.8
	12	0.5	-77.5	-7681.4	7419.0
50	11	0.5	74.4	-1542.9	2044.5
	12	0.5	-52.8	-8590.5	9936.3
51	11	0.5	127.3	-1675.9	2068.5
	12	0.5	1.6	-8640.3	9748.0
52	11	0.5	57.5	-1507.9	2050.1
	12	0.5	-19.5	-8676.4	10074.1
53	11	0.5	110.4	-1640.9	2074.0
	12	0.5	34.9	-8726.1	9885.8
54	11	0.5	258.9	-3154.5	2264.2
	12	0.5	-31.1	-6930.9	4343.9
55	11	0.5	235.0	-2539.7	2185.1
	12	0.5	-3.9	-7742.2	6761.7
56	11	0.5	205.7	-3136.9	2276.7
	12	0.5	76.6	-7035.8	4373.7
57	11	0.5	181.9	-2522.1	2197.7
	12	0.5	103.8	-7847.1	6791.5
58	11	0.5	157.5	-3756.9	2327.7
	12	0.4	-158.6	-5646.3	1201.0
59	11	0.5	219.5	-3912.4	2355.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	12	0.5	-95.0	-5704.5	980.8
60	11	0.5	137.9	-3716.0	2334.2
	12	0.5	-119.7	-5746.7	1361.9
61	11	0.5	199.9	-3871.6	2362.2
	12	0.5	-56.1	-5804.8	1141.7
62	11	0.5	73.5	-2726.9	2183.1
	12	0.5	-239.4	-6673.7	4818.1
63	11	0.5	45.6	-2008.3	2090.7
	12	0.5	-207.6	-7622.0	7644.2
64	11	0.5	12.0	-2706.4	2197.8
	12	0.5	-113.3	-6796.4	4852.6
65	11	0.5	-15.9	-1987.8	2105.4
	12	0.5	-81.4	-7744.8	7678.6
66	11	0.5	64.4	-1361.5	2019.8
	12	0.5	-52.6	-8807.4	10621.2
67	11	0.5	126.4	-1517.1	2047.8
	12	0.5	11.1	-8865.6	10401.0
68	11	0.5	44.9	-1320.7	2026.3
	12	0.5	-13.7	-8907.8	10782.1
69	11	0.5	106.9	-1476.2	2054.3
	12	0.5	50.0	-8965.9	10561.9
70	11	0.5	280.3	-3245.3	2276.5
	12	0.5	-27.2	-6867.5	4084.3
71	11	0.5	252.3	-2526.7	2184.2
	12	0.5	4.6	-7815.8	6910.3
72	11	0.5	218.7	-3224.8	2291.2
	12	0.5	98.9	-6990.3	4118.7
73	11	0.5	190.8	-2506.2	2198.9
	12	0.5	130.8	-7938.6	6944.7
1	13	0.8	896.3	-12071.3	-2603.4
	12	0.7	-1080.4	-13377.5	9126.9
2	13	0.8	742.9	-10753.2	-1972.0
	12	0.7	-890.6	-12793.6	9444.3
3	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
4	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
5	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
6	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
7	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
8	13	0.7	722.6	-10560.1	-1982.0
	12	0.7	-866.2	-12495.1	9191.9
9	13	0.6	280.7	-6178.8	4665.6
	12	0.4	-322.9	-10136.1	9202.1
10	13	0.6	108.6	-6595.3	4123.0
	12	0.5	-273.0	-10114.6	8831.3
11	13	0.6	30.2	-6394.4	4116.7
	12	0.5	-102.1	-10055.6	9037.8
12	13	0.6	-141.9	-6810.9	3574.0
	12	0.5	-52.2	-10034.1	8666.9
13	13	0.5	843.1	-6084.3	1556.2
	12	0.5	-733.3	-9025.9	7705.9
14	13	0.5	1095.9	-6464.9	-1721.1
	12	0.5	-973.7	-8026.6	6043.2
15	13	0.5	459.4	-6405.2	845.2
	12	0.5	-369.0	-8884.2	7519.5
16	13	0.5	712.3	-6785.8	-2432.2
	12	0.5	-609.5	-7884.9	5856.8
17	13	0.4	1123.5	-7447.5	-6258.9
	12	0.5	-1124.3	-6805.1	3659.6
18	13	0.4	951.3	-7864.0	-6801.5
	12	0.5	-1074.5	-6783.6	3288.8
19	13	0.4	872.9	-7663.1	-6807.8
	12	0.5	-903.5	-6724.5	3495.3
20	13	0.5	700.8	-8079.6	-7350.4
	12	0.5	-853.7	-6703.1	3124.5
21	13	0.6	269.3	-7472.6	-252.7
	12	0.5	-567.1	-8954.3	6469.8
22	13	0.5	522.1	-7853.2	-3530.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	12	0.5	-807.5	-7955.0	4807.0
23	13	0.6	-114.3	-7793.5	-963.7
	12	0.5	-202.8	-8812.6	6283.4
24	13	0.5	138.5	-8174.1	-4241.0
	12	0.5	-443.3	-7813.3	4620.6
25	13	0.6	620.1	-8265.5	-1750.0
	12	0.5	-747.2	-9206.8	6288.2
26	13	0.5	517.8	-7386.7	-1329.1
	12	0.5	-620.7	-8817.5	6499.8
27	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
28	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
29	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
30	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
31	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
32	13	0.5	504.3	-7258.0	-1335.7
	12	0.5	-604.5	-8618.5	6331.6
33	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
34	13	0.5	496.2	-7180.7	-1339.7
	12	0.5	-594.8	-8499.2	6230.6
35	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
36	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
37	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
38	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
39	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
40	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
41	13	0.5	490.8	-7129.2	-1342.4
	12	0.5	-588.3	-8419.6	6163.3
42	13	0.6	301.5	-6273.1	4069.2
	12	0.5	-348.9	-9965.7	8900.6
43	13	0.6	147.0	-6648.1	3581.2
	12	0.5	-304.2	-9946.4	8566.6
44	13	0.6	75.6	-6468.1	3573.0
	12	0.5	-150.5	-9893.1	8751.9
45	13	0.6	-78.9	-6843.1	3085.1
	12	0.5	-105.8	-9873.7	8418.0
46	13	0.5	807.2	-6188.0	1267.3
	12	0.5	-717.3	-8965.5	7552.9
47	13	0.5	1034.9	-6530.7	-1684.4
	12	0.5	-933.8	-8065.4	6055.3
48	13	0.5	461.4	-6477.7	626.1
	12	0.5	-391.4	-8838.2	7384.5
49	13	0.5	689.1	-6820.4	-2325.7
	12	0.5	-608.0	-7938.1	5886.9
50	13	0.4	1060.4	-7415.3	-5769.9
	12	0.5	-1070.7	-6965.4	3908.6
51	13	0.5	906.0	-7790.3	-6257.9
	12	0.5	-1026.1	-6946.1	3574.7
52	13	0.4	834.5	-7610.4	-6266.1
	12	0.5	-872.3	-6892.8	3759.9
53	13	0.5	680.1	-7985.4	-6754.0
	12	0.5	-827.7	-6873.5	3426.0
54	13	0.6	292.4	-7438.0	-359.2
	12	0.5	-568.5	-8901.1	6439.7
55	13	0.5	520.1	-7780.7	-3310.9
	12	0.5	-785.1	-8001.0	4942.1
56	13	0.6	-53.4	-7727.7	-1000.4
	12	0.5	-242.7	-8773.8	6271.3
57	13	0.5	174.3	-8070.4	-3952.1
	12	0.5	-459.2	-7873.7	4773.7
58	13	0.6	269.6	-6128.5	4983.1
	12	0.4	-308.5	-10226.8	9362.8

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
59	13	0.6	89.0	-6566.8	4412.7
	12	0.5	-256.3	-10204.2	8972.5
60	13	0.6	5.5	-6356.4	4403.2
	12	0.5	-76.5	-10141.9	9189.1
61	13	0.6	-175.1	-6794.8	3832.7
	12	0.5	-24.3	-10119.3	8798.7
62	13	0.5	860.9	-6029.1	1708.3
	12	0.5	-739.5	-9057.7	7787.5
63	13	0.5	1127.0	-6429.6	-1741.9
	12	0.5	-992.6	-8005.7	6037.0
64	13	0.5	456.5	-6367.7	958.5
	12	0.5	-358.2	-8908.8	7590.7
65	13	0.5	722.6	-6768.2	-2491.7
	12	0.5	-611.3	-7856.8	5840.2
66	13	0.4	1156.6	-7463.6	-6517.6
	12	0.5	-1152.3	-6719.9	3527.8
67	13	0.4	976.1	-7902.0	-7088.0
	12	0.5	-1100.0	-6697.3	3137.5
68	13	0.4	892.5	-7691.6	-7097.5
	12	0.5	-920.3	-6635.0	3354.1
69	13	0.4	712.0	-8129.9	-7667.9
	12	0.5	-868.0	-6612.4	2963.7
70	13	0.6	258.9	-7490.2	-193.1
	12	0.5	-565.2	-8982.4	6486.4
71	13	0.5	525.0	-7890.7	-3643.3
	12	0.5	-818.3	-7930.3	4735.9
72	13	0.6	-145.5	-7828.8	-942.9
	12	0.5	-183.9	-8833.5	6289.5
73	13	0.5	120.6	-8229.3	-4393.1
	12	0.5	-437.1	-7781.4	4539.0
1	14	0.9	873.3	-8470.2	430.7
	15	0.8	-1117.9	-10792.4	8136.0
2	14	0.8	732.1	-6938.5	598.2
	15	0.8	-934.6	-9170.1	7093.0
3	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
4	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
5	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
6	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
7	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
8	14	0.8	725.9	-6737.6	583.5
	15	0.7	-924.6	-8862.9	6818.9
9	14	0.5	522.9	-5626.6	-4373.7
	15	0.5	-651.5	-3288.8	-1798.0
10	14	0.4	1475.8	-3416.2	-3270.2
	15	0.5	-1498.1	-1772.7	-2625.6
11	14	0.6	167.0	-7379.4	-5804.6
	15	0.5	-346.7	-3412.2	-3244.1
12	14	0.5	1119.9	-5168.9	-4701.0
	15	0.5	-1193.3	-1896.1	-4071.7
13	14	0.7	-518.1	-7286.4	-2042.6
	15	0.6	262.5	-7446.0	4784.1
14	14	0.7	-728.1	-6795.5	893.5
	15	0.6	453.0	-9471.1	9279.9
15	14	0.8	-1505.4	-9731.8	-3859.8
	15	0.6	1159.3	-7517.9	2594.8
16	14	0.8	-1715.4	-9240.9	-923.7
	15	0.6	1349.9	-9543.0	7090.6
17	14	0.7	-177.2	-3990.2	5413.3
	15	0.6	-16.3	-10039.1	13187.9
18	14	0.6	775.7	-1779.7	6516.9
	15	0.5	-862.9	-8522.9	12360.4
19	14	0.8	-533.1	-5742.9	3982.4
	15	0.6	288.5	-10162.5	11741.8
20	14	0.6	419.8	-3532.4	5086.0
	15	0.5	-558.1	-8646.3	10914.3
21	14	0.3	2658.2	81.8	1635.9
	15	0.4	-2559.5	-2392.1	2025.6

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
22	14	0.4	2448.1	572.8	4572.0
	15	0.4	-2368.9	-4417.2	6521.4
23	14	0.4	1670.9	-2363.6	-181.2
	15	0.4	-1662.6	-2464.0	-163.6
24	14	0.5	1460.8	-1872.6	2754.9
	15	0.4	-1472.1	-4489.1	4332.1
25	14	0.6	573.8	-5868.5	264.0
	15	0.6	-740.4	-7458.7	5618.9
26	14	0.6	479.6	-4847.4	375.7
	15	0.5	-618.2	-6377.2	4923.7
27	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
28	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
29	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
30	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
31	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
32	14	0.6	475.5	-4713.5	365.9
	15	0.5	-611.5	-6172.4	4740.9
33	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
34	14	0.6	473.0	-4633.1	360.0
	15	0.5	-607.5	-6049.5	4631.2
35	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
36	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
37	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
38	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
39	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
40	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
41	14	0.6	471.4	-4579.5	356.1
	15	0.5	-604.8	-5967.6	4558.1
42	14	0.5	521.4	-5510.2	-3891.8
	15	0.5	-650.2	-3554.2	-1168.8
43	14	0.4	1376.0	-3526.5	-2909.2
	15	0.5	-1409.3	-2189.0	-1909.1
44	14	0.6	191.4	-7097.6	-5194.1
	15	0.5	-367.1	-3666.2	-2473.5
45	14	0.5	1046.0	-5113.9	-4211.4
	15	0.5	-1126.2	-2301.0	-3213.8
46	14	0.7	-407.3	-6991.2	-1766.2
	15	0.6	164.5	-7297.9	4753.4
47	14	0.7	-594.7	-6551.6	878.4
	15	0.6	334.5	-9121.9	8803.1
48	14	0.8	-1311.2	-9219.8	-3441.6
	15	0.6	986.0	-7364.1	2780.6
49	14	0.8	-1498.6	-8780.3	-796.9
	15	0.6	1156.0	-9188.1	6830.3
50	14	0.7	-103.3	-4045.1	4923.7
	15	0.6	-83.4	-9634.2	12330.0
51	14	0.6	751.3	-2061.4	5906.3
	15	0.5	-842.5	-8268.9	11589.8
52	14	0.7	-433.2	-5632.6	3621.5
	15	0.6	199.7	-9746.2	11025.3
53	14	0.6	421.4	-3648.8	4604.1
	15	0.5	-559.4	-8380.9	10285.1
54	14	0.3	2441.3	-378.8	1509.2
	15	0.4	-2365.6	-2747.0	2286.0
55	14	0.4	2253.9	60.8	4153.8
	15	0.4	-2195.6	-4571.0	6335.6
56	14	0.4	1537.5	-2607.4	-166.2
	15	0.4	-1544.1	-2813.2	313.2
57	14	0.5	1350.1	-2167.9	2478.5
	15	0.5	-1374.1	-4637.2	4362.8
58	14	0.5	528.9	-5669.2	-4611.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	15	0.5	-657.1	-3146.8	-2135.3
59	14	0.4	1528.7	-3348.7	-3460.6
	15	0.5	-1545.1	-1550.9	-3001.1
60	14	0.6	144.5	-7523.1	-6131.2
	15	0.5	-327.3	-3277.6	-3660.8
61	14	0.4	1144.3	-5202.6	-4979.9
	15	0.5	-1215.4	-1681.7	-4526.7
62	14	0.7	-558.7	-7404.4	-2133.7
	15	0.6	297.2	-7522.9	4788.4
63	14	0.8	-777.9	-6890.6	957.5
	15	0.6	496.1	-9654.9	9521.9
64	14	0.8	-1612.1	-10003.4	-4082.8
	15	0.6	1254.5	-7600.0	2480.5
65	14	0.9	-1831.2	-9489.6	-991.6
	15	0.6	1453.3	-9731.9	7214.0
66	14	0.7	-201.6	-3956.4	5692.2
	15	0.6	5.8	-10253.4	13642.9
67	14	0.6	798.2	-1636.0	6843.5
	15	0.5	-882.3	-8657.5	12777.1
68	14	0.8	-586.0	-5810.4	4172.9
	15	0.6	335.5	-10384.2	12117.4
69	14	0.6	413.8	-3489.9	5324.1
	15	0.5	-552.6	-8788.3	11251.5
70	14	0.3	2773.9	330.6	1703.9
	15	0.4	-2662.9	-2203.2	1902.3
71	14	0.3	2554.8	844.4	4795.1
	15	0.4	-2464.1	-4335.2	6635.7
72	14	0.4	1720.6	-2268.5	-245.2
	15	0.4	-1705.7	-2280.2	-405.6
73	14	0.4	1501.5	-1754.7	2846.0
	15	0.4	-1506.8	-4412.2	4327.8
1	15	0.8	-429.3	-9252.4	-9225.8
	16	0.8	162.8	-8762.9	7851.8
2	15	0.8	-390.4	-7951.7	-8099.8
	16	0.8	171.0	-7379.9	6539.7
3	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
4	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
5	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
6	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
7	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
8	15	0.7	-378.4	-7674.2	-7807.4
	16	0.7	162.6	-7125.6	6312.9
9	15	0.5	-17.2	-8336.0	-13825.4
	16	0.5	-118.7	-2388.9	-2406.5
10	15	0.5	126.4	-7366.2	-12909.8
	16	0.5	-229.2	-1101.8	-3783.6
11	15	0.5	-197.9	-9184.1	-14876.8
	16	0.6	31.0	-1981.2	-3815.4
12	15	0.5	-54.4	-8214.3	-13961.3
	16	0.5	-79.5	-694.1	-5192.5
13	15	0.6	-318.1	-7093.7	-9004.9
	16	0.6	162.9	-6323.1	5311.6
14	15	0.6	-454.2	-5225.9	-3811.9
	16	0.6	293.7	-8276.5	10139.1
15	15	0.6	-549.6	-8331.1	-9716.6
	16	0.6	312.4	-5608.2	2944.0
16	15	0.6	-685.8	-6463.3	-4523.6
	16	0.6	443.2	-7561.5	7771.4
17	15	0.6	-470.9	-2110.0	3484.7
	16	0.5	317.3	-8900.2	13685.1
18	15	0.5	-327.4	-1140.1	4400.2
	16	0.5	206.8	-7613.0	12307.9
19	15	0.6	-651.7	-2958.0	2433.2
	16	0.5	467.0	-8492.5	12276.2
20	15	0.5	-508.1	-1988.2	3348.8
	16	0.5	356.5	-7205.4	10899.0
21	15	0.4	160.4	-3861.0	-5953.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	16	0.4	-205.4	-2032.7	721.1
22	15	0.4	24.3	-1993.1	-760.0
	16	0.4	-74.6	-3986.1	5548.6
23	15	0.4	-71.1	-5098.4	-6664.8
	16	0.4	-55.8	-1317.8	-1646.5
24	15	0.4	-207.2	-3230.5	-1471.7
	16	0.4	75.0	-3271.1	3180.9
25	15	0.6	-304.5	-6399.3	-6378.9
	16	0.6	124.6	-6058.2	5423.4
26	15	0.5	-278.6	-5532.2	-5628.3
	16	0.5	130.1	-5136.2	4548.6
27	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
28	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
29	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
30	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
31	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
32	15	0.5	-270.6	-5347.1	-5433.3
	16	0.5	124.5	-4966.7	4397.5
33	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
34	15	0.5	-265.9	-5236.1	-5316.3
	16	0.5	121.1	-4865.0	4306.8
35	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
36	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
37	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
38	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
39	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
40	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
41	15	0.5	-262.7	-5162.1	-5238.3
	16	0.5	118.9	-4797.1	4246.3
42	15	0.5	-39.9	-8016.3	-12964.6
	16	0.5	-96.6	-2628.2	-1746.3
43	15	0.5	87.8	-7146.8	-12147.7
	16	0.5	-194.6	-1469.0	-2984.6
44	15	0.5	-205.5	-8785.5	-13921.2
	16	0.6	40.8	-2260.2	-3017.5
45	15	0.5	-77.8	-7916.1	-13104.4
	16	0.5	-57.3	-1101.0	-4255.9
46	15	0.6	-307.3	-6887.9	-8605.4
	16	0.6	153.8	-6172.0	5203.2
47	15	0.6	-429.5	-5205.4	-3927.7
	16	0.6	271.3	-7931.5	9551.6
48	15	0.6	-521.5	-8017.0	-9271.7
	16	0.6	293.4	-5526.9	3068.9
49	15	0.6	-643.8	-6334.5	-4594.0
	16	0.6	410.9	-7286.4	7417.3
50	15	0.6	-447.5	-2408.1	2627.8
	16	0.5	295.1	-8493.3	12748.5
51	15	0.5	-319.8	-1538.7	3444.6
	16	0.5	197.0	-7334.1	11510.1
52	15	0.6	-613.1	-3177.4	1671.1
	16	0.5	432.5	-8125.3	11477.2
53	15	0.5	-485.4	-2307.9	2487.9
	16	0.5	334.4	-6966.1	10238.8
54	15	0.4	118.4	-3989.7	-5882.6
	16	0.4	-173.1	-2307.9	1075.3
55	15	0.4	-3.8	-2307.3	-1204.9
	16	0.4	-55.6	-4067.4	5423.7
56	15	0.4	-95.8	-5118.8	-6548.9
	16	0.5	-33.5	-1662.8	-1059.0
57	15	0.5	-218.1	-3436.3	-1871.2
	16	0.5	84.0	-3422.3	3289.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
58	15	0.5	-2.7	-8499.3	-14271.0
	16	0.6	-132.6	-2262.0	-2758.0
59	15	0.5	147.0	-7482.0	-13314.5
	16	0.5	-247.6	-907.0	-4205.6
60	15	0.5	-195.8	-9397.4	-15387.4
	16	0.6	27.5	-1831.8	-4244.1
61	15	0.5	-46.2	-8380.1	-14430.8
	16	0.5	-87.4	-476.9	-5691.8
62	15	0.6	-316.1	-7182.6	-9180.0
	16	0.6	160.8	-6404.1	5365.5
63	15	0.6	-459.0	-5216.1	-3712.5
	16	0.6	298.2	-8460.7	10448.1
64	15	0.6	-565.2	-8499.0	-9952.8
	16	0.6	322.9	-5650.1	2870.0
65	15	0.6	-708.1	-6532.5	-4485.2
	16	0.6	460.2	-7706.7	7952.7
66	15	0.6	-479.1	-1944.1	3954.2
	16	0.5	325.3	-9117.4	14184.3
67	15	0.5	-329.5	-926.8	4910.8
	16	0.5	210.3	-7762.5	12736.6
68	15	0.6	-672.3	-2842.2	2837.8
	16	0.5	485.4	-8687.3	12698.2
69	15	0.5	-522.7	-1825.0	3794.4
	16	0.5	370.4	-7332.3	11250.5
70	15	0.4	182.8	-3791.7	-5991.4
	16	0.4	-222.4	-1887.6	539.8
71	15	0.4	39.9	-1825.2	-523.8
	16	0.4	-85.1	-3944.2	5622.5
72	15	0.4	-66.3	-5108.2	-6764.2
	16	0.4	-60.4	-1133.6	-1955.6
73	15	0.4	-209.2	-3141.6	-1296.6
	16	0.4	77.0	-3190.2	3127.1
1	16	0.8	220.0	-9259.3	-7960.8
	17	0.8	-518.7	-10297.5	10798.1
2	16	0.8	220.3	-7820.7	-6666.4
	17	0.8	-466.6	-8836.8	9437.2
3	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
4	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
5	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
6	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
7	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
8	16	0.7	214.1	-7550.8	-6435.3
	17	0.7	-456.5	-8529.4	9100.0
9	16	0.5	477.2	-8813.4	-13126.1
	17	0.6	-683.4	-3781.8	-1449.5
10	16	0.5	336.9	-7694.7	-12057.1
	17	0.5	-485.3	-2450.3	-2686.5
11	16	0.6	282.0	-9395.3	-14445.5
	17	0.6	-478.8	-2986.4	-3187.7
12	16	0.5	141.7	-8276.6	-13376.5
	17	0.5	-280.7	-1654.8	-4424.7
13	16	0.6	594.2	-7536.7	-8018.5
	17	0.6	-865.1	-7686.8	6876.8
14	16	0.6	499.2	-5462.9	-2677.9
	17	0.6	-763.3	-9491.8	12292.7
15	16	0.6	270.5	-8443.4	-9586.2
	17	0.6	-521.9	-6400.0	4009.3
16	16	0.6	175.5	-6369.6	-4245.6
	17	0.6	-420.1	-8205.0	9425.1
17	16	0.5	160.4	-1900.7	4675.8
	17	0.5	-344.2	-9798.5	16603.3
18	16	0.5	20.1	-782.0	5744.8
	17	0.5	-146.1	-8466.9	15366.3
19	16	0.5	-34.8	-2482.6	3356.4
	17	0.5	-139.6	-9003.0	14865.1
20	16	0.5	-175.1	-1363.9	4425.5
	17	0.5	58.5	-7671.5	13628.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
21	16	0.4	126.7	-3807.7	-4455.1
	17	0.4	-204.7	-3248.3	2753.5
22	16	0.4	31.6	-1733.9	885.5
	17	0.4	-103.0	-5053.3	8169.4
23	16	0.4	-197.0	-4714.4	-6022.8
	17	0.4	138.5	-1961.5	-114.0
24	16	0.4	-292.1	-2640.6	-682.2
	17	0.4	240.2	-3766.5	5301.8
25	16	0.6	159.1	-6407.6	-5521.3
	17	0.6	-360.6	-7110.2	7446.1
26	16	0.5	159.3	-5448.6	-4658.4
	17	0.5	-325.8	-6136.4	6538.8
27	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
28	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
29	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
30	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
31	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
32	16	0.5	155.2	-5268.6	-4504.3
	17	0.5	-319.1	-5931.5	6314.1
33	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
34	16	0.5	152.7	-5160.6	-4411.9
	17	0.5	-315.1	-5808.6	6179.2
35	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
36	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
37	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
38	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
39	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
40	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
41	16	0.5	151.1	-5088.7	-4350.3
	17	0.5	-312.4	-5726.6	6089.3
42	16	0.5	444.5	-8441.5	-12243.8
	17	0.6	-646.4	-3975.2	-702.1
43	16	0.5	318.9	-7435.6	-11291.3
	17	0.5	-468.4	-2776.4	-1812.1
44	16	0.6	266.9	-8968.4	-13444.8
	17	0.6	-460.3	-3257.3	-2270.6
45	16	0.5	141.3	-7962.5	-12492.2
	17	0.5	-282.3	-2058.5	-3380.7
46	16	0.6	549.2	-7287.3	-7619.8
	17	0.6	-809.5	-7492.0	6792.9
47	16	0.6	464.1	-5419.3	-2809.2
	17	0.6	-718.4	-9117.9	11671.3
48	16	0.6	256.9	-8110.8	-9066.7
	17	0.6	-499.8	-6331.4	4207.6
49	16	0.6	171.8	-6242.8	-4256.1
	17	0.6	-408.6	-7957.3	9086.0
50	16	0.5	160.9	-2214.8	3791.6
	17	0.5	-342.5	-9394.7	15559.3
51	16	0.5	35.2	-1208.9	4744.1
	17	0.5	-164.5	-8195.9	14449.2
52	16	0.5	-16.8	-2741.7	2590.6
	17	0.5	-156.5	-8676.9	13990.8
53	16	0.5	-142.4	-1735.8	3543.2
	17	0.5	21.5	-7478.1	12880.7
54	16	0.4	130.3	-3934.5	-4444.5
	17	0.5	-216.2	-3496.0	3092.6
55	16	0.4	45.2	-2066.5	366.1
	17	0.4	-125.1	-5121.9	7971.1
56	16	0.5	-162.0	-4758.0	-5891.5
	17	0.4	93.5	-2335.4	507.3
57	16	0.5	-247.1	-2890.0	-1080.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	17	0.4	184.7	-3961.3	5385.7
58	16	0.6	494.2	-9008.1	-13579.2
	17	0.6	-702.8	-3679.5	-1848.4
59	16	0.5	347.2	-7831.9	-12463.3
	17	0.5	-494.7	-2278.2	-3146.4
60	16	0.6	286.6	-9623.5	-14980.4
	17	0.6	-485.4	-2840.4	-3682.2
61	16	0.5	139.6	-8447.4	-13864.5
	17	0.5	-277.3	-1439.1	-4980.2
62	16	0.6	616.7	-7660.1	-8180.1
	17	0.6	-893.6	-7790.2	6913.1
63	16	0.6	517.2	-5476.7	-2557.2
	17	0.6	-787.1	-9690.6	12615.3
64	16	0.6	274.9	-8621.2	-9863.1
	17	0.6	-531.4	-6433.6	3889.8
65	16	0.6	175.3	-6437.7	-4240.2
	17	0.6	-424.8	-8334.0	9592.0
66	16	0.5	162.5	-1730.0	5163.9
	17	0.5	-347.5	-10014.1	17158.8
67	16	0.5	15.5	-553.8	6279.8
	17	0.5	-139.4	-8612.9	15860.8
68	16	0.5	-45.1	-2345.4	3762.7
	17	0.5	-130.1	-9175.0	15325.0
69	16	0.5	-192.1	-1169.2	4878.6
	17	0.5	78.0	-7773.8	14027.1
70	16	0.4	126.8	-3739.6	-4460.5
	17	0.4	-200.0	-3119.3	2586.6
71	16	0.4	27.3	-1556.2	1162.5
	17	0.4	-93.4	-5019.7	8288.8
72	16	0.4	-215.1	-4700.7	-6143.5
	17	0.4	162.2	-1762.7	-436.7
73	16	0.4	-314.6	-2517.2	-520.6
	17	0.4	268.8	-3663.1	5265.5
1	17	0.8	-1200.6	-11415.2	-9924.4
	18	0.9	946.7	-8271.9	-704.2
2	17	0.8	-1030.2	-9706.8	-8629.7
	18	0.8	820.9	-6749.4	-869.6
3	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
4	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
5	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
6	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
7	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
8	17	0.7	-1020.2	-9383.5	-8307.3
	18	0.8	814.7	-6553.9	-851.3
9	17	0.6	344.6	-10251.0	-11862.9
	18	0.8	-603.2	-5747.4	-4196.5
10	17	0.5	-786.8	-8780.2	-11883.4
	18	0.6	661.5	-3095.7	-5698.9
11	17	0.6	54.5	-10219.0	-13414.1
	18	0.7	-267.8	-4172.0	-5668.7
12	17	0.5	-1076.8	-8748.2	-13434.6
	18	0.6	997.0	-1520.3	-7171.1
13	17	0.6	1789.6	-9713.3	-6266.3
	18	0.9	-2203.4	-9792.3	1606.6
14	17	0.6	1607.8	-7799.7	-2004.4
	18	0.8	-2002.7	-10285.1	4694.6
15	17	0.6	824.9	-9723.5	-9018.3
	18	0.8	-1150.6	-7464.2	-760.8
16	17	0.6	643.1	-7809.9	-4756.5
	18	0.7	-949.9	-7957.0	2327.1
17	17	0.5	-261.5	-3872.3	2343.4
	18	0.6	65.7	-7390.0	6096.8
18	17	0.5	-1392.8	-2401.5	2322.9
	18	0.4	1330.5	-4738.4	4594.4
19	17	0.5	-551.5	-3840.3	792.2
	18	0.5	401.1	-5814.6	4624.6
20	17	0.5	-1682.9	-2369.5	771.6

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	18	0.4	1665.9	-3163.0	3122.2
21	17	0.4	-1981.4	-4810.7	-6334.7
	18	0.4	2012.6	-953.3	-3401.4
22	17	0.4	-2163.2	-2897.1	-2072.9
	18	0.4	2213.3	-1446.1	-313.4
23	17	0.4	-2946.1	-4820.8	-9086.8
	18	0.3	3065.4	1374.7	-5768.9
24	17	0.4	-3127.9	-2907.2	-4824.9
	18	0.3	3266.0	881.9	-2680.9
25	17	0.6	-796.1	-7880.3	-6838.6
	18	0.6	623.5	-5730.8	-451.3
26	17	0.5	-682.5	-6741.3	-5975.5
	18	0.6	539.6	-4715.7	-561.6
27	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
28	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
29	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
30	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
31	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
32	17	0.5	-675.8	-6525.8	-5760.6
	18	0.6	535.5	-4585.4	-549.4
33	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
34	17	0.5	-671.8	-6396.5	-5631.6
	18	0.6	533.0	-4507.3	-542.0
35	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
36	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
37	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
38	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
39	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
40	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
41	17	0.5	-669.2	-6310.3	-5545.6
	18	0.6	531.3	-4455.2	-537.1
42	17	0.6	243.5	-9859.8	-11240.4
	18	0.7	-490.2	-5622.0	-3833.2
43	17	0.5	-774.9	-8535.2	-11253.9
	18	0.6	648.4	-3234.6	-5184.4
44	17	0.6	-22.3	-9830.7	-12633.9
	18	0.7	-183.0	-4202.1	-5161.5
45	17	0.5	-1040.7	-8506.1	-12647.4
	18	0.6	955.7	-1814.7	-6512.7
46	17	0.6	1545.0	-9375.1	-6212.3
	18	0.8	-1931.4	-9262.9	1391.2
47	17	0.6	1382.7	-7651.5	-2373.3
	18	0.8	-1752.2	-9705.0	4172.7
48	17	0.6	673.7	-9384.3	-8672.8
	18	0.8	-980.5	-7163.3	-743.0
49	17	0.6	511.4	-7660.7	-4833.9
	18	0.7	-801.3	-7605.4	2038.6
50	17	0.5	-297.6	-4114.4	1556.2
	18	0.6	107.0	-7095.6	5438.5
51	17	0.5	-1316.0	-2789.8	1542.6
	18	0.5	1245.6	-4708.2	4087.3
52	17	0.5	-563.4	-4085.4	162.7
	18	0.5	414.3	-5675.8	4110.2
53	17	0.5	-1581.8	-2760.8	149.1
	18	0.4	1552.9	-3288.4	2759.0
54	17	0.5	-1849.7	-4959.8	-6257.3
	18	0.4	1864.0	-1304.9	-3112.8
55	17	0.4	-2012.0	-3236.2	-2418.4
	18	0.4	2043.2	-1747.0	-331.3
56	17	0.4	-2721.0	-4969.0	-8717.9
	18	0.4	2814.9	794.7	-5247.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
57	17	0.4	-2883.3	-3245.4	-4879.0
	18	0.3	2994.1	352.6	-2465.5
58	17	0.6	397.7	-10459.2	-12200.7
	18	0.8	-662.8	-5819.0	-4389.6
59	17	0.5	-792.7	-8910.9	-12217.8
	18	0.6	668.1	-3028.4	-5969.2
60	17	0.6	87.3	-10425.2	-13830.7
	18	0.7	-303.9	-4159.2	-5942.3
61	17	0.5	-1103.2	-8876.9	-13847.8
	18	0.6	1027.0	-1368.6	-7521.9
62	17	0.6	1919.1	-9892.8	-6320.6
	18	0.9	-2347.4	-10074.9	1717.5
63	17	0.6	1729.2	-7878.1	-1833.4
	18	0.8	-2137.9	-10591.7	4968.7
64	17	0.6	900.6	-9903.4	-9200.9
	18	0.8	-1235.9	-7620.6	-777.7
65	17	0.6	710.7	-7888.8	-4713.7
	18	0.7	-1026.4	-8137.4	2473.5
66	17	0.5	-235.1	-3743.6	2756.6
	18	0.6	35.7	-7541.7	6447.7
67	17	0.5	-1425.6	-2195.3	2739.5
	18	0.4	1366.6	-4751.1	4868.1
68	17	0.5	-545.6	-3709.7	1126.6
	18	0.5	394.5	-5881.9	4895.0
69	17	0.5	-1736.0	-2161.4	1109.5
	18	0.4	1725.5	-3091.3	3315.4
70	17	0.4	-2049.0	-4731.8	-6377.5
	18	0.4	2089.0	-772.9	-3547.7
71	17	0.4	-2238.9	-2717.1	-1890.3
	18	0.4	2298.6	-1289.7	-296.5
72	17	0.4	-3067.5	-4742.4	-9257.8
	18	0.3	3200.5	1681.4	-6043.0
73	17	0.4	-3257.4	-2727.8	-4770.6
	18	0.3	3410.1	1164.6	-2791.8
1	1	1.0	1911.9	-7932.9	-1016.3
	8	0.8	-2050.9	-8119.8	3298.0
2	1	0.9	1756.1	-6255.0	-569.2
	8	0.7	-1867.4	-6842.6	3147.8
3	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
4	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
5	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
6	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
7	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
8	1	0.9	1733.3	-6084.7	-555.6
	8	0.7	-1842.5	-6619.2	3001.0
9	1	0.5	1296.2	-2359.4	-572.3
	8	0.5	-1299.0	-2908.9	2050.0
10	1	0.6	475.0	-1677.0	4976.4
	8	0.4	-498.6	-5599.1	4464.3
11	1	0.4	2060.1	-3087.9	-1964.1
	8	0.5	-2056.2	-792.3	1289.3
12	1	0.5	1238.9	-2405.5	3584.6
	8	0.5	-1255.8	-3482.5	3703.6
13	1	0.4	2079.6	-4260.8	-6374.7
	8	0.5	-2110.7	-1093.0	-552.5
14	1	0.5	2013.1	-5306.6	-7489.6
	8	0.5	-2082.7	-1883.3	-1042.9
15	1	0.3	3037.5	-5219.0	-11710.0
	8	0.5	-3046.8	1824.9	-2885.9
16	1	0.3	2971.0	-6264.8	-12824.9
	8	0.5	-3018.8	1034.6	-3376.3
17	1	0.7	1074.4	-5845.5	-4288.5
	8	0.6	-1205.7	-5543.2	415.3
18	1	0.8	253.2	-5163.2	1260.2
	8	0.6	-405.3	-8233.4	2829.6
19	1	0.6	1838.3	-6574.0	-5680.3
	8	0.6	-1962.8	-3426.6	-345.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
20	1	0.7	1017.1	-5891.7	-131.6
	8	0.6	-1162.4	-6116.8	2068.9
21	1	0.9	-657.7	-1986.2	12121.0
	8	0.5	557.3	-10060.3	7495.2
22	1	0.9	-724.2	-3032.1	11006.1
	8	0.5	585.3	-10850.6	7004.8
23	1	0.7	300.2	-2944.4	6785.7
	8	0.5	-378.8	-7142.4	5161.8
24	1	0.8	233.7	-3990.3	5670.8
	8	0.5	-350.8	-7932.7	4671.4
25	1	0.7	1290.9	-5471.2	-668.2
	8	0.6	-1386.3	-5662.3	2355.3
26	1	0.6	1187.0	-4352.6	-370.2
	8	0.5	-1263.9	-4810.8	2255.2
27	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
28	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
29	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
30	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
31	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
32	1	0.6	1171.8	-4239.0	-361.1
	8	0.5	-1247.3	-4661.8	2157.3
33	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
34	1	0.6	1162.7	-4170.9	-355.6
	8	0.5	-1237.4	-4572.5	2098.6
35	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
36	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
37	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
38	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
39	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
40	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
41	1	0.6	1156.7	-4125.5	-352.0
	8	0.5	-1230.7	-4512.9	2059.5
42	1	0.5	1280.2	-2529.8	-532.5
	8	0.5	-1289.8	-3080.3	2058.7
43	1	0.6	543.4	-1919.7	4445.8
	8	0.5	-571.6	-5495.0	4225.2
44	1	0.4	1967.8	-3193.5	-1831.2
	8	0.5	-1970.9	-1164.6	1352.8
45	1	0.5	1231.0	-2583.4	3147.1
	8	0.5	-1252.8	-3579.3	3519.2
46	1	0.4	1978.4	-4232.0	-5710.6
	8	0.5	-2013.8	-1462.3	-265.2
47	1	0.5	1919.0	-5173.3	-6706.2
	8	0.5	-1989.5	-2172.2	-703.0
48	1	0.3	2850.2	-5111.3	-10592.1
	8	0.5	-2865.7	1195.6	-2399.5
49	1	0.4	2790.9	-6052.7	-11587.7
	8	0.5	-2841.4	485.7	-2837.2
50	1	0.7	1082.3	-5667.6	-3851.0
	8	0.6	-1208.7	-5446.4	599.7
51	1	0.8	345.5	-5057.6	1127.3
	8	0.6	-490.6	-7861.2	2766.1
52	1	0.6	1769.9	-6331.3	-5149.7
	8	0.6	-1889.8	-3530.7	-106.2
53	1	0.7	1033.1	-5721.2	-171.4
	8	0.6	-1171.7	-5945.5	2060.2
54	1	0.8	-477.5	-2198.4	10883.8
	8	0.5	379.9	-9511.5	6956.1
55	1	0.9	-536.9	-3139.7	9888.2
	8	0.5	404.3	-10221.3	6518.4
56	1	0.7	394.3	-3077.7	6002.3

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	8	0.5	-471.9	-6853.5	4821.9
57	1	0.8	334.9	-4019.1	5006.7
	8	0.5	-447.6	-7563.4	4384.2
58	1	0.5	1301.8	-2261.4	-567.8
	8	0.4	-1300.4	-2836.3	2056.6
59	1	0.6	439.9	-1547.2	5256.0
	8	0.4	-460.4	-5660.8	4590.9
60	1	0.4	2104.9	-3035.9	-2079.3
	8	0.5	-2096.1	-599.0	1234.3
61	1	0.5	1243.0	-2321.7	3744.4
	8	0.4	-1256.0	-3423.5	3768.5
62	1	0.4	2119.5	-4253.6	-6631.4
	8	0.5	-2148.4	-940.4	-664.5
63	1	0.5	2050.1	-5353.9	-7795.6
	8	0.5	-2119.9	-1770.1	-1176.4
64	1	0.3	3136.3	-5277.7	-12320.8
	8	0.5	-3141.9	2159.6	-3152.2
65	1	0.3	3066.8	-6378.1	-13485.0
	8	0.5	-3113.4	1329.8	-3664.1
66	1	0.7	1070.3	-5929.3	-4448.3
	8	0.6	-1205.4	-5602.2	350.4
67	1	0.8	208.4	-5215.1	1375.4
	8	0.6	-365.4	-8426.8	2884.6
68	1	0.6	1873.4	-6703.8	-5959.9
	8	0.6	-2001.1	-3364.9	-471.9
69	1	0.7	1011.5	-5989.6	-136.1
	8	0.6	-1161.0	-6189.4	2062.3
70	1	0.9	-753.5	-1872.9	12781.1
	8	0.5	651.9	-10355.5	7783.0
71	1	1.0	-823.0	-2973.3	11616.9
	8	0.5	680.4	-11185.3	7271.1
72	1	0.7	263.2	-2897.1	7091.7
	8	0.5	-341.6	-7255.6	5295.3
73	1	0.8	193.8	-3997.5	5927.5
	8	0.5	-313.1	-8085.4	4783.4
1	8	0.8	-318.8	-7803.3	-17.3
	14	0.9	74.9	-10491.5	4772.1
2	8	0.7	-303.2	-6630.6	-537.7
	14	0.8	102.3	-8515.3	3653.8
3	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
4	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
5	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
6	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
7	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
8	8	0.7	-307.5	-6413.9	-462.1
	14	0.8	110.4	-8274.1	3542.0
9	8	0.5	112.9	-3722.0	-1646.1
	14	0.5	-76.7	-3425.3	-236.4
10	8	0.4	-557.0	-625.0	4298.4
	14	0.4	624.2	-4118.6	5441.7
11	8	0.5	512.2	-5474.2	-7006.5
	14	0.6	-596.6	-2631.5	-4886.4
12	8	0.5	-157.7	-2377.2	-1061.9
	14	0.5	104.4	-3324.8	791.8
13	8	0.5	675.0	-7582.8	-7184.2
	14	0.7	-794.6	-4327.5	-4446.7
14	8	0.5	570.3	-8373.6	-6575.9
	14	0.7	-764.9	-5668.7	-3178.3
15	8	0.5	1268.8	-10685.1	-13919.7
	14	0.8	-1444.7	-3241.4	-10965.6
16	8	0.5	1164.0	-11476.0	-13311.4
	14	0.8	-1415.0	-4582.7	-9697.3
17	8	0.6	-236.2	-6358.3	381.4
	14	0.7	22.5	-7896.3	3991.4
18	8	0.6	-906.1	-3261.3	6326.0
	14	0.6	723.4	-8589.6	9669.5
19	8	0.6	163.1	-8110.5	-4978.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	14	0.8	-497.4	-7102.5	-658.6
20	8	0.6	-506.8	-5013.5	965.6
	14	0.6	203.5	-7795.8	5019.6
21	8	0.5	-1557.9	2740.5	12630.9
	14	0.3	1541.8	-6638.4	14480.4
22	8	0.5	-1662.6	1949.6	13239.2
	14	0.4	1571.6	-7979.7	15748.8
23	8	0.5	-964.1	-361.8	5895.5
	14	0.4	891.7	-5552.4	7961.5
24	8	0.5	-1068.9	-1152.7	6503.7
	14	0.5	921.5	-6893.7	9229.8
25	8	0.6	-201.7	-5438.5	-94.1
	14	0.6	34.3	-7249.7	3286.1
26	8	0.5	-191.3	-4656.7	-441.0
	14	0.6	52.5	-5932.2	2540.6
27	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
28	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
29	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
30	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
31	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
32	8	0.5	-194.1	-4512.2	-390.6
	14	0.6	58.0	-5771.4	2466.1
33	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
34	8	0.5	-195.8	-4425.5	-360.4
	14	0.6	61.2	-5674.9	2421.4
35	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
36	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
37	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
38	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
39	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
40	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
41	8	0.5	-196.9	-4367.7	-340.2
	14	0.6	63.4	-5610.6	2391.6
42	8	0.5	79.4	-3776.0	-1504.6
	14	0.5	-61.6	-3648.1	59.7
43	8	0.5	-522.5	-996.2	3830.3
	14	0.4	568.3	-4267.3	5153.7
44	8	0.5	440.7	-5385.4	-6328.7
	14	0.6	-529.1	-2926.8	-4153.0
45	8	0.5	-161.2	-2605.5	-993.8
	14	0.5	100.7	-3546.0	940.9
46	8	0.5	583.0	-7230.4	-6440.4
	14	0.7	-704.2	-4472.7	-3693.7
47	8	0.5	489.4	-7936.6	-5895.0
	14	0.7	-677.9	-5680.8	-2558.9
48	8	0.5	1123.1	-10065.1	-12568.4
	14	0.8	-1294.6	-3476.3	-9637.9
49	8	0.5	1029.5	-10771.3	-12023.0
	14	0.8	-1268.3	-4684.4	-8503.1
50	8	0.6	-232.6	-6129.9	313.3
	14	0.7	26.1	-7675.1	3842.2
51	8	0.6	-834.5	-3350.1	5648.2
	14	0.6	655.9	-8294.3	8936.2
52	8	0.6	128.6	-7739.3	-4510.7
	14	0.7	-441.4	-6953.8	-370.5
53	8	0.6	-473.3	-4959.4	824.1
	14	0.6	188.4	-7573.0	4723.5
54	8	0.5	-1423.4	2035.8	11342.5
	14	0.3	1395.1	-6536.7	13286.3
55	8	0.5	-1517.0	1329.7	11887.9
	14	0.4	1421.4	-7744.8	14421.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
56	8	0.5	-883.2	-798.9	5214.5
	14	0.4	804.7	-5540.3	7342.1
57	8	0.5	-976.8	-1505.1	5759.9
	14	0.5	831.0	-6748.4	8476.9
58	8	0.4	126.4	-3678.5	-1706.0
	14	0.5	-83.0	-3315.5	-339.1
59	8	0.4	-577.5	-426.9	4534.5
	14	0.4	653.5	-4040.5	5620.1
60	8	0.5	548.4	-5555.9	-7340.9
	14	0.6	-629.3	-2473.6	-5258.9
61	8	0.4	-155.5	-2304.3	-1100.4
	14	0.4	107.3	-3198.6	700.3
62	8	0.5	715.9	-7721.7	-7486.4
	14	0.7	-835.1	-4276.3	-4737.9
63	8	0.5	606.4	-8547.5	-6848.6
	14	0.8	-804.3	-5688.4	-3411.3
64	8	0.5	1346.0	-11026.8	-14633.6
	14	0.8	-1524.0	-3115.9	-11669.4
65	8	0.5	1236.6	-11852.6	-13995.8
	14	0.9	-1493.2	-4528.0	-10342.8
66	8	0.6	-238.4	-6431.2	420.0
	14	0.7	19.6	-8022.5	4082.9
67	8	0.6	-942.3	-3179.5	6660.5
	14	0.6	756.1	-8747.5	10042.1
68	8	0.6	183.6	-8308.6	-5215.0
	14	0.8	-526.7	-7180.6	-836.9
69	8	0.6	-520.3	-5057.0	1025.5
	14	0.6	209.9	-7905.6	5122.3
70	8	0.5	-1630.5	3117.1	13315.3
	14	0.3	1620.0	-6693.1	15126.0
71	8	0.5	-1739.9	2291.3	13953.1
	14	0.3	1650.8	-8105.2	16452.6
72	8	0.5	-1000.3	-188.0	6168.1
	14	0.4	931.2	-5532.7	8194.5
73	8	0.5	-1109.8	-1013.8	6805.9
	14	0.4	961.9	-6944.8	9521.1
1	3	1.2	1697.5	-13868.4	-4617.7
	9	0.7	-1609.4	-3905.9	-8622.3
2	3	1.1	1186.7	-11040.3	-3406.4
	9	0.7	-1110.6	-4326.2	-4900.7
3	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
4	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
5	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
6	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
7	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
8	3	1.1	1134.5	-10704.9	-3308.2
	9	0.7	-1061.5	-4139.6	-4824.3
9	3	0.7	2478.6	-6798.1	-2940.1
	9	0.5	-2353.1	-2309.9	-3274.0
10	3	0.8	2597.0	-6389.5	-138.1
	9	0.5	-2465.5	-4384.5	-266.9
11	3	0.7	2310.0	-7122.4	-4552.6
	9	0.5	-2192.2	-2084.8	-4304.8
12	3	0.7	2428.4	-6713.8	-1750.7
	9	0.5	-2304.6	-4159.4	-1297.7
13	3	0.6	1142.9	-7531.9	-5916.3
	9	0.5	-1076.0	-32.4	-7014.4
14	3	0.6	136.1	-7811.2	-5827.9
	9	0.5	-114.0	196.4	-7546.9
15	3	0.5	1020.2	-7993.7	-7908.0
	9	0.5	-962.3	1012.4	-8823.4
16	3	0.6	13.3	-8273.0	-7819.6
	9	0.5	-0.3	1241.2	-9356.0
17	3	0.7	-877.6	-7729.0	-2645.4
	9	0.5	853.5	-1547.1	-5049.1
18	3	0.8	-759.2	-7320.4	156.6
	9	0.5	741.1	-3621.7	-2042.0

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
19	3	0.7	-1046.2	-8053.4	-4257.9
	9	0.5	1014.4	-1322.0	-6079.9
20	3	0.8	-927.9	-7644.8	-1456.0
	9	0.5	902.0	-3396.6	-3072.8
21	3	0.9	1537.5	-6169.9	3423.6
	9	0.5	-1450.8	-6947.7	3009.2
22	3	0.9	530.6	-6449.2	3512.0
	9	0.5	-488.8	-6718.9	2476.7
23	3	0.9	1414.7	-6631.6	1431.8
	9	0.5	-1337.1	-5902.9	1200.1
24	3	0.9	407.8	-6910.9	1520.2
	9	0.5	-375.1	-5674.1	667.6
25	3	0.9	1185.5	-9554.1	-3136.5
	9	0.5	-1123.6	-2821.8	-5756.4
26	3	0.8	845.0	-7668.7	-2328.9
	9	0.5	-791.0	-3102.0	-3275.3
27	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
28	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
29	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
30	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
31	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
32	3	0.8	810.2	-7445.1	-2263.5
	9	0.5	-758.3	-2977.6	-3224.3
33	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
34	3	0.8	789.3	-7310.9	-2224.2
	9	0.5	-738.7	-2903.0	-3193.8
35	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
36	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
37	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
38	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
39	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
40	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
41	3	0.7	775.4	-7221.4	-2198.0
	9	0.5	-725.6	-2853.3	-3173.4
42	3	0.7	2310.9	-6838.4	-2863.3
	9	0.5	-2192.9	-2365.9	-3259.9
43	3	0.8	2416.3	-6471.9	-343.4
	9	0.5	-2292.9	-4232.2	-555.1
44	3	0.7	2157.2	-7133.9	-4313.2
	9	0.5	-2046.2	-2156.7	-4202.2
45	3	0.7	2262.5	-6767.4	-1793.3
	9	0.5	-2146.2	-4023.0	-1497.4
46	3	0.6	1110.6	-7495.8	-5533.8
	9	0.5	-1045.2	-320.6	-6619.8
47	3	0.6	203.8	-7746.9	-5455.7
	9	0.5	-178.8	-115.9	-7096.6
48	3	0.6	995.9	-7917.6	-7340.1
	9	0.5	-938.8	630.4	-8266.1
49	3	0.6	89.0	-8168.7	-7261.9
	9	0.5	-72.4	835.1	-8743.0
50	3	0.7	-711.8	-7675.5	-2602.8
	9	0.5	695.1	-1683.5	-4849.3
51	3	0.8	-606.4	-7309.0	-82.8
	9	0.5	595.1	-3549.8	-2144.5
52	3	0.7	-865.5	-7970.9	-4052.7
	9	0.5	841.8	-1474.3	-5791.7
53	3	0.8	-760.1	-7604.4	-1532.8
	9	0.5	741.8	-3340.6	-3086.9
54	3	0.9	1461.7	-6274.1	2865.9
	9	0.5	-1378.7	-6541.6	2396.2
55	3	0.9	554.9	-6525.2	2944.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	9	0.5	-512.3	-6336.9	1919.4
56	3	0.9	1347.0	-6695.9	1059.7
	9	0.5	-1272.3	-5590.6	749.9
57	3	0.9	440.2	-6947.0	1137.8
	9	0.5	-405.9	-5385.9	273.0
58	3	0.7	2569.9	-6774.1	-2976.6
	9	0.5	-2440.4	-2283.0	-3275.4
59	3	0.8	2693.3	-6345.4	-30.2
	9	0.5	-2557.6	-4465.1	-112.9
60	3	0.6	2390.6	-7119.0	-4670.7
	9	0.5	-2269.2	-2039.3	-4375.4
61	3	0.7	2514.0	-6690.2	-1724.3
	9	0.5	-2386.4	-4221.4	-1212.9
62	3	0.6	1166.3	-7543.4	-6100.4
	9	0.5	-1098.3	109.1	-7204.9
63	3	0.6	106.3	-7836.9	-6008.9
	9	0.5	-85.6	348.4	-7762.5
64	3	0.5	1033.1	-8035.2	-8208.5
	9	0.5	-974.8	1218.5	-9125.9
65	3	0.6	-26.8	-8328.7	-8117.1
	9	0.5	37.9	1457.9	-9683.5
66	3	0.7	-963.2	-7752.6	-2671.7
	9	0.5	935.3	-1485.1	-5133.9
67	3	0.8	-839.8	-7323.9	274.7
	9	0.5	818.1	-3667.2	-1971.4
68	3	0.7	-1142.6	-8097.5	-4365.9
	9	0.5	1106.5	-1241.4	-6233.8
69	3	0.8	-1019.1	-7668.7	-1419.4
	9	0.5	989.3	-3423.5	-3071.3
70	3	0.9	1577.6	-6114.1	3721.0
	9	0.5	-1489.0	-7164.4	3336.7
71	3	1.0	517.7	-6407.7	3812.5
	9	0.5	-476.3	-6925.1	2779.2
72	3	0.9	1444.5	-6605.9	1612.9
	9	0.5	-1365.5	-6055.0	1415.7
73	3	0.9	384.5	-6899.5	1704.4
	9	0.5	-352.8	-5815.6	858.2
1	9	0.7	367.6	-8984.1	5443.9
	15	0.8	-322.2	-13687.8	4407.9
2	9	0.7	396.7	-9390.0	2060.2
	15	0.8	-351.4	-12046.3	3378.8
3	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
4	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
5	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
6	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
7	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
8	9	0.7	383.2	-9193.4	2018.9
	15	0.7	-339.8	-11797.2	3296.6
9	9	0.5	-243.3	-7354.7	-1747.0
	15	0.5	340.4	-7095.1	514.8
10	9	0.5	-304.9	-4991.8	4237.7
	15	0.5	409.8	-8108.5	4001.2
11	9	0.5	-315.9	-8251.5	-4336.6
	15	0.5	413.0	-6554.2	-1035.4
12	9	0.5	-377.5	-5888.6	1648.1
	15	0.5	482.4	-7567.6	2451.1
13	9	0.5	261.0	-9573.8	-7295.0
	15	0.6	-224.5	-6425.4	-2668.1
14	9	0.5	608.3	-9325.3	-6479.9
	15	0.6	-614.9	-6770.4	-2253.0
15	9	0.5	133.9	-10965.9	-10850.9
	15	0.6	-94.7	-5664.5	-5019.0
16	9	0.5	481.2	-10717.4	-10035.8
	15	0.6	-485.1	-6009.5	-4604.0
17	9	0.5	914.5	-6526.2	969.9
	15	0.6	-960.8	-8245.2	1898.4
18	9	0.5	852.9	-4163.3	6954.6

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	15	0.5	-891.4	-9258.6	5384.9
19	9	0.5	841.9	-7423.1	-1619.6
	15	0.6	-888.1	-7704.3	348.3
20	9	0.5	780.3	-5060.2	4365.0
	15	0.5	-818.7	-8717.7	3834.8
21	9	0.5	55.8	-1697.5	12653.8
	15	0.4	6.7	-9803.3	8953.5
22	9	0.5	403.2	-1448.9	13468.9
	15	0.4	-383.6	-10148.4	9368.6
23	9	0.5	-71.3	-3089.6	9098.0
	15	0.4	136.5	-9042.4	6602.6
24	9	0.5	276.0	-2841.0	9913.0
	15	0.4	-253.8	-9387.4	7017.7
25	9	0.5	267.0	-6198.9	3619.9
	15	0.6	-235.2	-9332.9	2970.3
26	9	0.5	286.5	-6469.5	1364.1
	15	0.5	-254.7	-8238.5	2284.3
27	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
28	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
29	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
30	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
31	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
32	9	0.5	277.5	-6338.4	1336.5
	15	0.5	-246.9	-8072.5	2229.5
33	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
34	9	0.5	272.1	-6259.8	1320.0
	15	0.5	-242.3	-7972.8	2196.7
35	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
36	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
37	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
38	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
39	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
40	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
41	9	0.5	268.5	-6207.4	1309.0
	15	0.5	-239.2	-7906.4	2174.8
42	9	0.5	-192.5	-7235.9	-1431.6
	15	0.5	282.9	-7177.8	688.8
43	9	0.5	-247.8	-5110.2	3952.5
	15	0.5	345.3	-8089.0	3824.3
44	9	0.5	-258.1	-8045.9	-3772.3
	15	0.5	348.4	-6688.6	-712.3
45	9	0.5	-313.4	-5920.3	1611.7
	15	0.5	410.8	-7599.8	2423.3
46	9	0.5	261.6	-9229.6	-6416.4
	15	0.6	-225.8	-6578.1	-2169.2
47	9	0.5	574.4	-9007.2	-5685.0
	15	0.6	-577.5	-6888.6	-1798.0
48	9	0.5	147.0	-10493.2	-9643.8
	15	0.6	-108.8	-5886.8	-4304.4
49	9	0.5	459.8	-10270.8	-8912.4
	15	0.6	-460.5	-6197.4	-3933.1
50	9	0.5	850.4	-6494.6	1006.3
	15	0.6	-889.1	-8213.0	1926.2
51	9	0.5	795.1	-4369.0	6390.3
	15	0.5	-826.8	-9124.2	5061.8
52	9	0.5	784.9	-7304.7	-1334.4
	15	0.6	-823.6	-7723.8	525.2
53	9	0.5	729.5	-5179.0	4049.6
	15	0.5	-761.2	-8635.0	3660.8
54	9	0.5	77.2	-2144.0	11530.4
	15	0.4	-17.9	-9615.4	8282.6

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
55	9	0.5	390.1	-1921.7	12261.8
	15	0.4	-369.5	-9926.0	8653.9
56	9	0.5	-37.4	-3407.7	8303.0
	15	0.4	99.1	-8924.2	6147.5
57	9	0.5	275.5	-3185.3	9034.4
	15	0.5	-252.5	-9234.7	6518.7
58	9	0.5	-270.4	-7410.2	-1896.0
	15	0.5	371.0	-7054.4	436.6
59	9	0.5	-335.0	-4924.9	4398.8
	15	0.5	444.0	-8119.9	4102.9
60	9	0.5	-347.0	-8356.5	-4630.6
	15	0.5	447.6	-6483.0	-1200.1
61	9	0.5	-411.6	-5871.3	1664.3
	15	0.5	520.6	-7548.4	2466.2
62	9	0.5	260.4	-9742.1	-7726.4
	15	0.6	-223.6	-6352.5	-2906.8
63	9	0.5	626.1	-9482.2	-6871.5
	15	0.6	-634.6	-6715.4	-2472.8
64	9	0.5	126.4	-11217.0	-11493.4
	15	0.6	-86.8	-5545.8	-5398.5
65	9	0.5	492.1	-10957.0	-10638.4
	15	0.6	-497.8	-5908.8	-4964.5
66	9	0.5	948.6	-6543.6	953.8
	15	0.6	-998.9	-8264.4	1883.4
67	9	0.5	884.0	-4058.3	7248.6
	15	0.5	-926.0	-9329.9	5549.6
68	9	0.5	872.0	-7489.9	-1780.8
	15	0.6	-922.3	-7692.9	246.7
69	9	0.5	807.4	-5004.7	4514.0
	15	0.5	-849.4	-8758.4	3912.9
70	9	0.5	44.9	-1457.9	13256.5
	15	0.4	19.5	-9904.0	9314.0
71	9	0.5	410.6	-1197.9	14111.4
	15	0.4	-391.5	-10267.0	9748.1
72	9	0.5	-89.1	-2932.7	9489.5
	15	0.4	156.3	-9097.4	6822.3
73	9	0.5	276.6	-2672.7	10344.4
	15	0.4	-254.7	-9460.4	7256.3
1	10	0.8	-181.8	-1594.0	5656.8
	4	1.4	181.5	-7915.1	4144.2
2	10	0.8	-173.0	-2429.1	2342.5
	4	1.2	172.8	-5994.9	2768.3
3	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
4	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
5	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
6	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
7	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
8	10	0.8	-169.0	-2376.5	2242.7
	4	1.2	168.7	-5808.7	2664.1
9	10	0.5	201.7	-939.8	2585.0
	4	0.8	-204.6	-4316.5	3017.8
10	10	0.6	185.5	-2392.2	424.2
	4	0.9	-188.4	-3601.7	623.1
11	10	0.5	169.3	-1027.4	2885.7
	4	0.8	-172.0	-4386.9	3317.6
12	10	0.6	153.1	-2479.8	724.9
	4	0.9	-155.7	-3672.2	922.9
13	10	0.5	20.4	752.1	4999.7
	4	0.6	-21.5	-5071.3	5702.4
14	10	0.5	-154.9	822.9	4896.6
	4	0.6	155.4	-5001.3	5580.5
15	10	0.5	-20.6	834.7	5272.5
	4	0.6	19.6	-5136.3	5936.1
16	10	0.5	-195.9	905.5	5169.4
	4	0.6	196.5	-5066.2	5814.2
17	10	0.5	-382.6	-703.7	2241.5
	4	0.8	384.9	-4082.9	2611.3

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
18	10	0.5	-398.8	-2156.1	80.7
	4	0.9	401.2	-3368.2	216.6
19	10	0.5	-415.0	-791.4	2542.2
	4	0.8	417.5	-4153.3	2911.1
20	10	0.5	-431.2	-2243.8	381.4
	4	0.9	433.8	-3438.6	516.4
21	10	0.6	-33.6	-4089.1	-2203.0
	4	1.1	32.7	-2688.9	-2280.0
22	10	0.6	-208.9	-4018.3	-2306.0
	4	1.0	209.5	-2618.8	-2401.9
23	10	0.6	-74.6	-4006.5	-1930.2
	4	1.0	73.8	-2753.8	-2046.3
24	10	0.6	-249.9	-3935.7	-2033.2
	4	1.0	250.7	-2683.7	-2168.2
25	10	0.6	-126.0	-1105.2	3825.8
	4	1.0	125.8	-5405.9	2823.4
26	10	0.6	-120.2	-1661.9	1616.2
	4	0.9	120.0	-4125.8	1906.1
27	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
28	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
29	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
30	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
31	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
32	10	0.5	-117.5	-1626.8	1549.7
	4	0.9	117.3	-4001.6	1836.6
33	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
34	10	0.5	-115.8	-1605.8	1509.8
	4	0.9	115.7	-3927.2	1794.9
35	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
36	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
37	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
38	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
39	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
40	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
41	10	0.5	-114.8	-1591.8	1483.2
	4	0.8	114.6	-3877.5	1767.1
42	10	0.5	170.2	-1004.8	2474.9
	4	0.8	-172.9	-4272.7	2893.0
43	10	0.6	155.8	-2312.7	529.2
	4	0.9	-158.4	-3629.1	736.6
44	10	0.5	140.9	-1083.4	2746.4
	4	0.8	-143.4	-4336.3	3163.6
45	10	0.6	126.5	-2391.2	800.6
	4	0.9	-128.9	-3692.7	1007.2
46	10	0.5	6.7	518.3	4648.8
	4	0.7	-7.8	-4952.3	5310.1
47	10	0.5	-151.1	582.1	4556.1
	4	0.7	151.5	-4889.2	5200.3
48	10	0.5	-30.2	593.8	4896.2
	4	0.7	29.3	-5011.3	5522.2
49	10	0.5	-188.1	657.6	4803.5
	4	0.6	188.6	-4948.2	5412.4
50	10	0.5	-356.0	-792.3	2165.8
	4	0.8	358.1	-4062.4	2527.0
51	10	0.5	-370.5	-2100.2	220.1
	4	0.9	372.6	-3418.7	370.6
52	10	0.5	-385.3	-870.9	2437.3
	4	0.8	387.6	-4126.0	2797.7
53	10	0.5	-399.8	-2178.7	491.5
	4	0.9	402.1	-3482.4	641.2
54	10	0.6	-41.5	-3841.1	-1837.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	4	1.0	40.6	-2806.9	-1878.2
55	10	0.6	-199.3	-3777.4	-1929.8
	4	1.0	199.9	-2743.8	-1988.0
56	10	0.6	-78.4	-3765.7	-1589.6
	4	1.0	77.7	-2865.8	-1666.1
57	10	0.6	-236.3	-3701.9	-1682.4
	4	1.0	237.0	-2802.7	-1775.9
58	10	0.5	218.4	-905.6	2642.5
	4	0.8	-221.4	-4339.5	3083.3
59	10	0.6	201.5	-2434.4	368.1
	4	0.9	-204.5	-3587.1	562.5
60	10	0.5	184.1	-997.5	2959.7
	4	0.8	-187.0	-4413.8	3399.5
61	10	0.6	167.2	-2526.3	685.2
	4	0.9	-170.0	-3661.5	878.7
62	10	0.5	27.3	875.0	5183.8
	4	0.6	-28.5	-5134.0	5908.8
63	10	0.5	-157.2	949.5	5075.4
	4	0.6	157.7	-5060.2	5780.5
64	10	0.5	-15.9	962.9	5472.6
	4	0.6	14.9	-5202.7	6156.3
65	10	0.5	-200.4	1037.4	5364.2
	4	0.6	201.1	-5129.0	6027.9
66	10	0.5	-396.7	-657.3	2281.2
	4	0.8	399.2	-4093.6	2655.5
67	10	0.5	-413.6	-2186.0	6.8
	4	0.9	416.2	-3341.3	134.7
68	10	0.5	-431.0	-749.1	2598.4
	4	0.8	433.7	-4167.9	2971.7
69	10	0.5	-447.9	-2277.9	323.9
	4	0.9	450.6	-3415.6	450.9
70	10	0.6	-29.1	-4221.0	-2397.7
	4	1.1	28.1	-2626.1	-2493.7
71	10	0.6	-213.6	-4146.5	-2506.1
	4	1.1	214.3	-2552.3	-2622.1
72	10	0.6	-72.3	-4133.0	-2109.0
	4	1.1	71.5	-2694.9	-2246.3
73	10	0.6	-256.8	-4058.5	-2217.4
	4	1.0	257.7	-2621.1	-2374.6
1	10	0.8	648.6	-11620.1	1891.8
	16	0.8	-629.0	-13371.2	2344.8
2	10	0.8	594.0	-11802.7	-1116.8
	16	0.8	-575.3	-11772.9	1502.9
3	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
4	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
5	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
6	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
7	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
8	10	0.8	574.3	-11533.3	-1100.2
	16	0.7	-556.2	-11515.7	1462.2
9	10	0.5	-58.7	-9097.4	-4158.8
	16	0.5	124.4	-7340.0	-510.1
10	10	0.6	-70.3	-6790.5	2404.8
	16	0.5	139.4	-8479.8	2675.8
11	10	0.5	-148.0	-9384.1	-5047.0
	16	0.6	217.5	-7339.4	-307.8
12	10	0.6	-159.6	-7077.1	1516.6
	16	0.5	232.5	-8479.2	2878.1
13	10	0.5	343.7	-11608.4	-11509.1
	16	0.6	-323.7	-5900.4	-4252.7
14	10	0.5	646.7	-11444.7	-11201.2
	16	0.6	-660.6	-5786.8	-4408.0
15	10	0.5	183.7	-11874.2	-12293.4
	16	0.6	-155.6	-5854.2	-4361.4
16	10	0.5	486.7	-11710.6	-11985.6
	16	0.6	-492.6	-5740.5	-4516.7
17	10	0.5	951.3	-8552.0	-3132.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	16	0.5	-998.8	-6961.2	-1027.9
18	10	0.5	939.6	-6245.0	3430.9
	16	0.5	-983.8	-8101.0	2158.1
19	10	0.5	862.0	-8838.6	-4020.9
	16	0.5	-905.7	-6960.6	-825.5
20	10	0.5	850.4	-6531.7	2542.7
	16	0.5	-890.7	-8100.4	2360.4
21	10	0.6	305.0	-3918.6	10369.5
	16	0.4	-273.7	-9699.8	6367.0
22	10	0.6	608.0	-3754.9	10677.3
	16	0.4	-610.7	-9586.2	6211.7
23	10	0.6	144.9	-4184.4	9585.1
	16	0.4	-105.7	-9653.5	6258.3
24	10	0.6	447.9	-4020.7	9893.0
	16	0.4	-442.6	-9539.9	6103.0
25	10	0.6	458.4	-8052.0	1175.5
	16	0.6	-444.4	-9128.6	1540.6
26	10	0.6	422.1	-8173.7	-830.3
	16	0.5	-408.6	-8063.1	979.4
27	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
28	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
29	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
30	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
31	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
32	10	0.5	409.0	-7994.1	-819.2
	16	0.5	-395.9	-7891.6	952.2
33	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
34	10	0.5	401.1	-7886.4	-812.5
	16	0.5	-388.2	-7788.8	936.0
35	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
36	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
37	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
38	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
39	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
40	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
41	10	0.5	395.8	-7814.6	-808.0
	16	0.5	-383.2	-7720.2	925.1
42	10	0.5	-13.8	-8969.4	-3824.1
	16	0.5	74.2	-7378.0	-367.0
43	10	0.6	-24.0	-6892.0	2086.3
	16	0.5	87.5	-8404.4	2502.0
44	10	0.5	-94.0	-9228.3	-4625.8
	16	0.6	158.0	-7377.1	-185.5
45	10	0.6	-104.3	-7150.9	1284.6
	16	0.5	171.3	-8403.5	2683.5
46	10	0.5	348.2	-11230.0	-10441.5
	16	0.6	-328.9	-6081.8	-3736.6
47	10	0.5	621.1	-11082.6	-10164.5
	16	0.6	-632.4	-5979.5	-3876.5
48	10	0.5	204.9	-11471.1	-11153.0
	16	0.6	-178.3	-6039.4	-3836.5
49	10	0.5	477.8	-11323.8	-10876.0
	16	0.6	-481.9	-5937.1	-3976.4
50	10	0.5	896.0	-8478.2	-2900.7
	16	0.5	-937.6	-7036.8	-833.2
51	10	0.5	885.7	-6400.9	3009.7
	16	0.5	-924.3	-8063.2	2035.8
52	10	0.5	815.7	-8737.1	-3702.4
	16	0.5	-853.8	-7036.0	-651.7
53	10	0.5	805.4	-6659.7	2208.0
	16	0.5	-840.5	-8062.4	2217.3

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
54	10	0.6	313.9	-4305.3	9259.9
	16	0.4	-284.4	-9503.2	5826.7
55	10	0.6	586.8	-4158.0	9537.0
	16	0.4	-588.0	-9400.9	5686.8
56	10	0.6	170.6	-4546.5	8548.4
	16	0.5	-133.9	-9460.9	5726.7
57	10	0.6	443.5	-4399.1	8825.4
	16	0.5	-437.4	-9358.5	5586.9
58	10	0.5	-82.9	-9164.5	-4333.8
	16	0.6	151.4	-7320.1	-585.3
59	10	0.6	-94.9	-6736.2	2575.1
	16	0.5	167.0	-8519.9	2768.3
60	10	0.5	-176.7	-9467.0	-5270.5
	16	0.6	249.3	-7319.2	-373.0
61	10	0.6	-188.8	-7038.7	1638.4
	16	0.5	264.9	-8519.0	2980.6
62	10	0.5	340.3	-11807.1	-12069.5
	16	0.6	-319.9	-5805.0	-4524.3
63	10	0.5	659.3	-11634.9	-11745.7
	16	0.6	-674.6	-5685.3	-4687.8
64	10	0.5	172.6	-12088.6	-12899.9
	16	0.6	-143.7	-5755.6	-4640.6
65	10	0.5	491.6	-11916.4	-12576.1
	16	0.6	-498.5	-5636.0	-4804.1
66	10	0.5	980.5	-8590.5	-3254.4
	16	0.5	-1031.2	-6921.3	-1130.3
67	10	0.5	968.4	-6162.1	3654.4
	16	0.5	-1015.6	-8121.2	2223.3
68	10	0.5	886.6	-8892.9	-4191.2
	16	0.5	-933.3	-6920.4	-918.0
69	10	0.5	874.5	-6464.6	2717.7
	16	0.5	-917.7	-8120.2	2435.6
70	10	0.6	300.0	-3712.7	10960.0
	16	0.4	-267.8	-9804.3	6654.3
71	10	0.6	619.0	-3540.5	11283.8
	16	0.4	-622.6	-9684.7	6490.8
72	10	0.6	132.4	-3994.2	10129.7
	16	0.4	-91.7	-9755.0	6538.1
73	10	0.6	451.4	-3822.0	10453.5
	16	0.4	-446.4	-9635.4	6374.6
1	5	1.2	-475.3	-17686.3	-4601.3
	12	0.7	424.9	-7812.9	-8153.8
2	5	1.1	-122.8	-14655.9	-3383.7
	12	0.7	79.5	-8243.7	-4140.8
3	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
4	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
5	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
6	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
7	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
8	5	1.1	-91.1	-14301.4	-3290.6
	12	0.7	50.1	-8043.9	-4056.6
9	5	0.7	1720.2	-9489.4	-3545.7
	12	0.4	-1672.2	-3916.5	-4760.4
10	5	0.8	1556.9	-9176.8	-713.0
	12	0.5	-1514.0	-6184.6	-1478.3
11	5	0.7	1472.9	-9420.5	-2704.3
	12	0.5	-1431.2	-4819.8	-3524.4
12	5	0.8	1309.6	-9107.9	128.4
	12	0.5	-1273.0	-7087.9	-242.3
13	5	0.5	847.0	-10109.7	-7358.8
	12	0.5	-841.6	-1156.1	-8860.3
14	5	0.5	-103.5	-10309.7	-7647.3
	12	0.5	66.5	-1126.3	-8969.2
15	5	0.6	509.2	-9996.3	-6174.0
	12	0.5	-511.9	-2218.4	-7336.5
16	5	0.6	-441.3	-10196.2	-6462.5
	12	0.5	396.2	-2188.6	-7445.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
17	5	0.7	-1448.2	-10155.8	-4507.3
	12	0.5	1354.9	-3817.2	-5123.1
18	5	0.8	-1611.4	-9843.2	-1674.6
	12	0.5	1513.1	-6085.3	-1841.0
19	5	0.7	-1695.5	-10086.9	-3665.9
	12	0.5	1595.9	-4720.5	-3887.2
20	5	0.8	-1858.7	-9774.3	-833.2
	12	0.5	1754.1	-6988.7	-605.1
21	5	0.9	302.7	-9067.5	2083.6
	12	0.5	-314.3	-8716.5	2079.9
22	5	0.9	-647.8	-9267.4	1795.1
	12	0.5	593.8	-8686.7	1971.1
23	5	0.9	-35.0	-8954.1	3268.4
	12	0.5	15.4	-9778.8	3603.7
24	5	1.0	-985.5	-9154.0	2979.9
	12	0.5	923.5	-9749.1	3494.9
25	5	0.9	-346.6	-12124.8	-3125.3
	12	0.5	310.4	-5431.8	-5470.3
26	5	0.8	-111.6	-10104.5	-2313.6
	12	0.5	80.1	-5719.0	-2795.0
27	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
28	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
29	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
30	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
31	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
32	5	0.8	-90.4	-9868.2	-2251.5
	12	0.5	60.5	-5585.8	-2738.8
33	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
34	5	0.8	-77.7	-9726.4	-2214.3
	12	0.5	48.8	-5505.8	-2705.2
35	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
36	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
37	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
38	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
39	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
40	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
41	5	0.7	-69.3	-9631.9	-2189.4
	12	0.5	41.0	-5452.6	-2682.7
42	5	0.7	1542.4	-9503.6	-3412.5
	12	0.5	-1501.9	-4069.0	-4553.4
43	5	0.8	1396.0	-9222.0	-861.2
	12	0.5	-1360.1	-6111.8	-1597.5
44	5	0.7	1318.9	-9441.4	-2654.1
	12	0.5	-1284.1	-4879.9	-3443.9
45	5	0.8	1172.5	-9159.8	-102.8
	12	0.5	-1142.3	-6922.6	-487.9
46	5	0.6	755.0	-10062.3	-6846.6
	12	0.5	-753.0	-1582.2	-8247.5
47	5	0.6	-101.0	-10242.4	-7105.7
	12	0.5	64.9	-1556.2	-8344.8
48	5	0.6	450.5	-9960.0	-5777.5
	12	0.5	-455.8	-2539.7	-6873.9
49	5	0.6	-405.5	-10140.1	-6036.6
	12	0.5	362.1	-2513.7	-6971.2
50	5	0.7	-1311.0	-10103.9	-4276.1
	12	0.5	1224.2	-3982.5	-4877.6
51	5	0.8	-1457.4	-9822.3	-1724.8
	12	0.5	1366.0	-6025.2	-1921.6
52	5	0.7	-1534.5	-10041.7	-3517.6
	12	0.5	1442.0	-4793.3	-3768.0
53	5	0.8	-1680.9	-9760.1	-966.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	12	0.5	1583.8	-6836.1	-812.0
54	5	0.9	267.0	-9123.6	1657.7
	12	0.5	-280.2	-8391.4	1605.7
55	5	0.9	-589.0	-9303.7	1398.6
	12	0.5	537.7	-8365.4	1508.5
56	5	0.9	-37.5	-9021.3	2726.8
	12	0.5	17.1	-9348.9	2979.3
57	5	0.9	-893.5	-9201.4	2467.7
	12	0.5	834.9	-9323.0	2882.1
58	5	0.7	1814.6	-9482.0	-3619.0
	12	0.4	-1762.5	-3835.4	-4869.3
59	5	0.8	1643.4	-9152.8	-637.0
	12	0.5	-1596.6	-6223.1	-1414.2
60	5	0.7	1553.3	-9409.3	-2732.5
	12	0.5	-1507.9	-4783.4	-3572.2
61	5	0.8	1382.1	-9080.1	249.6
	12	0.5	-1342.1	-7171.1	-117.1
62	5	0.5	894.4	-10135.0	-7632.9
	12	0.5	-887.3	-928.7	-9187.1
63	5	0.5	-106.1	-10345.5	-7935.8
	12	0.5	68.7	-898.3	-9300.8
64	5	0.6	538.3	-10015.4	-6383.4
	12	0.5	-539.7	-2047.9	-7581.6
65	5	0.6	-462.3	-10225.9	-6686.2
	12	0.5	416.3	-2017.5	-7695.3
66	5	0.7	-1520.7	-10183.6	-4628.5
	12	0.5	1424.0	-3734.1	-5248.4
67	5	0.8	-1691.9	-9854.4	-1646.4
	12	0.5	1589.8	-6121.8	-1793.3
68	5	0.7	-1781.9	-10110.9	-3741.9
	12	0.5	1678.6	-4682.0	-3951.2
69	5	0.8	-1953.1	-9781.7	-759.9
	12	0.5	1844.4	-7069.7	-496.1
70	5	0.9	323.7	-9037.8	2307.3
	12	0.5	-334.4	-8887.6	2329.9
71	5	0.9	-676.8	-9248.3	2004.5
	12	0.5	621.6	-8857.2	2216.2
72	5	1.0	-32.4	-8918.2	3556.9
	12	0.5	13.3	-10006.9	3935.4
73	5	1.0	-1033.0	-9128.7	3254.0
	12	0.5	969.2	-9976.4	3821.7
1	12	0.7	-407.1	-8713.4	5563.9
	17	0.8	372.9	-13777.8	4696.8
2	12	0.7	-427.1	-9132.7	2032.7
	17	0.8	391.3	-12096.4	3670.8
3	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
4	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
5	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
6	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
7	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
8	12	0.7	-411.9	-8923.6	2001.0
	17	0.7	377.6	-11842.3	3590.2
9	12	0.4	-875.1	-7308.5	-1961.3
	17	0.6	922.3	-7451.4	276.2
10	12	0.5	-796.0	-4732.7	4652.8
	17	0.5	838.0	-8676.2	4308.0
11	12	0.5	-917.8	-6491.3	159.3
	17	0.6	967.0	-7922.4	1592.4
12	12	0.5	-838.8	-3915.5	6773.4
	17	0.5	882.7	-9147.3	5624.2
13	12	0.5	-554.9	-10773.7	-10895.1
	17	0.6	559.0	-5657.4	-5196.0
14	12	0.5	-214.1	-11021.5	-11557.2
	17	0.6	176.9	-5438.0	-5544.8
15	12	0.5	-627.3	-9614.5	-7884.7
	17	0.6	635.4	-6346.5	-3156.4
16	12	0.5	-286.5	-9862.3	-8546.7

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	17	0.6	253.3	-6127.2	-3505.1
17	12	0.5	260.9	-8134.5	-4168.2
	17	0.5	-351.3	-6720.2	-886.1
18	12	0.5	340.0	-5558.6	2445.9
	17	0.5	-435.6	-7945.0	3145.7
19	12	0.5	218.2	-7317.2	-2047.6
	17	0.5	-306.7	-7191.2	430.1
20	12	0.5	297.2	-4741.4	4566.5
	17	0.5	-391.0	-8416.1	4461.9
21	12	0.5	-291.4	-2187.6	11151.9
	17	0.4	278.0	-9740.3	8243.2
22	12	0.5	49.5	-2435.4	10489.9
	17	0.4	-104.1	-9520.9	7894.5
23	12	0.5	-363.8	-1028.4	14162.4
	17	0.4	354.4	-10429.4	10282.9
24	12	0.5	-23.0	-1276.2	13500.3
	17	0.4	-27.7	-10210.1	9934.2
25	12	0.5	-295.9	-6024.3	3699.0
	17	0.6	271.6	-9393.5	3160.5
26	12	0.5	-309.2	-6303.8	1344.8
	17	0.5	283.9	-8272.6	2476.6
27	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
28	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
29	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
30	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
31	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
32	12	0.5	-299.1	-6164.4	1323.7
	17	0.5	274.8	-8103.2	2422.8
33	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
34	12	0.5	-293.0	-6080.7	1311.0
	17	0.5	269.3	-8001.5	2390.6
35	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
36	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
37	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
38	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
39	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
40	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
41	12	0.5	-288.9	-6025.0	1302.6
	17	0.5	265.7	-7933.7	2369.1
42	12	0.5	-816.7	-7182.8	-1641.5
	17	0.6	856.9	-7498.6	480.7
43	12	0.5	-745.7	-4862.9	4315.4
	17	0.5	781.2	-8601.8	4111.7
44	12	0.5	-855.5	-6446.1	270.1
	17	0.6	897.4	-7923.3	1666.3
45	12	0.5	-784.4	-4126.2	6227.0
	17	0.5	821.6	-9026.4	5297.4
46	12	0.5	-528.0	-10303.3	-9686.8
	17	0.6	529.4	-5882.9	-4446.8
47	12	0.5	-221.0	-10525.6	-10280.9
	17	0.6	185.2	-5685.7	-4758.8
48	12	0.5	-593.7	-9257.3	-6970.3
	17	0.6	598.7	-6504.7	-2606.7
49	12	0.5	-286.8	-9479.6	-7564.4
	17	0.6	254.5	-6307.5	-2918.7
50	12	0.5	206.5	-7923.7	-3621.8
	17	0.5	-290.3	-6841.0	-559.3
51	12	0.5	277.6	-5603.8	2335.1
	17	0.5	-366.1	-7944.2	3071.8
52	12	0.5	167.8	-7187.0	-1710.2
	17	0.5	-249.8	-7265.7	626.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
53	12	0.5	238.9	-4867.1	4246.7
	17	0.5	-325.6	-8368.8	4257.5
54	12	0.5	-291.1	-2570.3	10169.6
	17	0.5	276.8	-9560.0	7656.8
55	12	0.5	15.9	-2792.6	9575.5
	17	0.4	-67.4	-9362.7	7344.8
56	12	0.5	-356.8	-1524.3	12886.1
	17	0.4	346.1	-10181.8	9496.9
57	12	0.5	-49.9	-1746.6	12292.0
	17	0.4	2.0	-9984.5	9185.0
58	12	0.4	-905.9	-7378.3	-2138.6
	17	0.6	956.8	-7425.2	161.8
59	12	0.5	-822.8	-4666.6	4824.1
	17	0.5	868.2	-8714.6	4406.0
60	12	0.5	-951.1	-6517.1	96.0
	17	0.6	1004.1	-7921.6	1547.9
61	12	0.5	-868.0	-3805.5	7058.7
	17	0.5	915.4	-9210.9	5792.1
62	12	0.5	-568.5	-11025.7	-11542.3
	17	0.6	574.0	-5536.7	-5597.6
63	12	0.5	-209.7	-11285.5	-12236.8
	17	0.6	171.7	-5306.1	-5962.4
64	12	0.5	-645.2	-9803.1	-8367.3
	17	0.6	654.9	-6263.4	-3446.8
65	12	0.5	-286.4	-10062.9	-9061.7
	17	0.6	252.7	-6032.8	-3811.6
66	12	0.5	290.2	-8244.4	-4453.6
	17	0.5	-384.1	-6656.5	-1054.0
67	12	0.5	373.3	-5532.8	2509.2
	17	0.5	-472.7	-7945.9	3190.2
68	12	0.5	244.9	-7383.3	-2218.9
	17	0.5	-336.9	-7152.9	332.1
69	12	0.5	328.0	-4671.6	4743.8
	17	0.5	-425.5	-8442.3	4576.3
70	12	0.5	-291.5	-1987.0	11666.9
	17	0.4	278.7	-9834.6	8549.7
71	12	0.5	67.4	-2246.8	10972.5
	17	0.4	-123.6	-9604.0	8184.9
72	12	0.5	-368.2	-764.4	14842.0
	17	0.4	359.6	-10561.4	10700.5
73	12	0.5	-9.4	-1024.2	14147.5
	17	0.4	-42.7	-10330.8	10335.8
1	13	0.8	-2134.8	-8184.6	-1113.3
	7	1.1	1987.1	-9414.3	612.1
2	13	0.8	-1943.3	-6876.9	-1315.8
	7	1.0	1822.3	-7558.4	385.3
3	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
4	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
5	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
6	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
7	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
8	13	0.7	-1925.1	-6649.2	-1207.7
	7	0.9	1806.3	-7355.0	375.4
9	13	0.6	322.9	-3655.7	4271.6
	7	0.8	-551.6	-8559.3	3416.2
10	13	0.6	634.5	-6490.6	-245.7
	7	0.9	-875.6	-8030.8	385.8
11	13	0.6	178.6	-5271.5	2021.9
	7	0.8	-399.7	-7791.4	2103.4
12	13	0.6	490.2	-8106.4	-2495.3
	7	0.9	-723.7	-7262.9	-926.9
13	13	0.5	-1227.3	989.9	9303.4
	7	0.5	1119.5	-7291.4	6936.6
14	13	0.5	-2249.2	1797.6	8254.0
	7	0.4	2231.9	-5533.7	6333.4
15	13	0.5	-1382.6	-1417.6	5081.8
	7	0.5	1280.8	-6191.4	4246.4

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
16	13	0.5	-2404.5	-610.0	4032.4
	7	0.4	2393.2	-4433.8	3643.1
17	13	0.4	-3083.4	-963.4	773.5
	7	0.4	3156.3	-2700.5	1405.4
18	13	0.4	-2771.8	-3798.3	-3743.8
	7	0.5	2832.3	-2172.0	-1624.9
19	13	0.4	-3227.8	-2579.2	-1476.1
	7	0.4	3308.2	-1932.6	92.7
20	13	0.5	-2916.2	-5414.1	-5993.4
	7	0.6	2984.2	-1404.1	-2937.6
21	13	0.6	-188.7	-8459.8	-5754.2
	7	0.9	39.4	-5529.6	-3164.6
22	13	0.5	-1210.6	-7652.1	-6803.6
	7	0.8	1151.8	-3772.0	-3767.8
23	13	0.6	-344.0	-10867.4	-9975.9
	7	0.9	200.7	-4429.7	-5854.8
24	13	0.5	-1365.9	-10059.7	-11025.3
	7	0.8	1313.1	-2672.0	-6458.0
25	13	0.6	-1448.5	-5710.4	-870.1
	7	0.8	1347.5	-6490.1	403.7
26	13	0.5	-1320.9	-4838.5	-1005.1
	7	0.7	1237.6	-5252.8	252.5
27	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
28	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
29	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
30	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
31	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
32	13	0.5	-1308.7	-4686.7	-933.0
	7	0.7	1226.9	-5117.3	245.9
33	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
34	13	0.5	-1301.5	-4595.6	-889.8
	7	0.7	1220.6	-5035.9	241.9
35	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
36	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
37	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
38	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
39	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
40	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
41	13	0.5	-1296.6	-4534.9	-860.9
	7	0.7	1216.3	-4981.7	239.3
42	13	0.6	162.7	-3741.3	3761.7
	7	0.7	-376.7	-8203.6	3100.5
43	13	0.6	443.0	-6293.8	-304.7
	7	0.9	-668.1	-7729.5	372.4
44	13	0.6	31.8	-5197.8	1710.8
	7	0.8	-238.9	-7509.4	1902.0
45	13	0.6	312.1	-7750.3	-2355.6
	7	0.9	-530.3	-7035.4	-826.0
46	13	0.5	-1232.7	441.7	8292.5
	7	0.5	1127.6	-7059.0	6270.7
47	13	0.5	-2153.1	1168.2	7354.2
	7	0.4	2129.5	-5476.4	5731.9
48	13	0.5	-1374.3	-1729.7	4478.6
	7	0.6	1274.6	-6067.3	3840.0
49	13	0.5	-2294.7	-1003.2	3540.2
	7	0.5	2276.4	-4484.6	3301.2
50	13	0.4	-2905.3	-1319.5	633.7
	7	0.4	2962.9	-2928.0	1304.5
51	13	0.5	-2625.0	-3872.0	-3432.7
	7	0.5	2671.4	-2454.0	-1423.5
52	13	0.4	-3036.2	-2776.0	-1417.1

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	7	0.5	3100.7	-2233.9	106.1
53	13	0.5	-2755.9	-5328.5	-5483.5
	7	0.6	2809.2	-1759.8	-2621.9
54	13	0.6	-298.5	-8066.6	-5262.1
	7	0.9	156.1	-5478.8	-2822.7
55	13	0.5	-1218.9	-7340.1	-6200.5
	7	0.8	1158.0	-3896.1	-3361.5
56	13	0.6	-440.1	-10238.0	-9076.0
	7	0.9	303.1	-4487.0	-5253.4
57	13	0.5	-1360.5	-9511.5	-10014.4
	7	0.8	1305.0	-2904.4	-5792.1
58	13	0.6	409.0	-3607.3	4542.4
	7	0.8	-645.5	-8747.9	3583.7
59	13	0.6	736.7	-6590.8	-210.8
	7	0.9	-986.3	-8193.5	394.9
60	13	0.6	256.1	-5309.8	2146.5
	7	0.8	-484.6	-7936.4	2183.8
61	13	0.6	583.8	-8293.3	-2606.7
	7	0.9	-825.4	-7382.0	-1005.0
62	13	0.5	-1222.3	1282.2	9838.7
	7	0.5	1113.0	-7410.6	7289.4
63	13	0.5	-2298.1	2131.4	8741.5
	7	0.4	2284.0	-5560.6	6659.4
64	13	0.5	-1387.4	-1256.1	5380.7
	7	0.5	1284.4	-6250.6	4448.3
65	13	0.5	-2463.2	-406.8	4283.4
	7	0.4	2455.5	-4400.7	3818.3
66	13	0.4	-3177.1	-776.5	884.8
	7	0.4	3257.9	-2581.4	1483.5
67	13	0.4	-2849.4	-3760.0	-3868.4
	7	0.5	2917.2	-2027.0	-1705.2
68	13	0.4	-3329.9	-2479.0	-1511.0
	7	0.4	3418.9	-1769.9	83.6
69	13	0.4	-3002.2	-5462.5	-6264.3
	7	0.6	3078.1	-1215.5	-3105.1
70	13	0.6	-130.0	-8663.0	-6005.3
	7	0.9	-22.9	-5562.7	-3339.8
71	13	0.5	-1205.8	-7813.7	-7102.6
	7	0.8	1148.2	-3712.8	-3969.8
72	13	0.6	-295.1	-11201.2	-10463.3
	7	1.0	148.6	-4402.8	-6180.9
73	13	0.5	-1370.9	-10352.0	-11560.6
	7	0.8	1319.6	-2552.8	-6810.9
1	18	0.9	325.1	-10616.2	-4684.3
	13	0.8	-571.9	-7626.9	-1103.4
2	18	0.8	350.8	-8641.8	-3668.5
	13	0.8	-555.8	-6474.8	-420.3
3	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
4	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
5	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
6	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
7	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
8	18	0.8	356.2	-8397.9	-3556.2
	13	0.7	-557.4	-6261.9	-470.3
9	18	0.8	-9.1	-7196.9	1258.3
	13	0.6	-274.2	-7884.1	2910.6
10	18	0.6	826.8	-8059.3	-5575.7
	13	0.6	-1077.8	-4789.9	-2996.3
11	18	0.7	319.7	-7918.4	-2977.8
	13	0.6	-578.4	-6417.7	-415.8
12	18	0.6	1155.6	-8780.8	-9811.8
	13	0.6	-1381.9	-3323.6	-6322.7
13	18	0.9	-1306.8	-4369.8	11599.6
	13	0.5	1067.2	-11098.7	11652.9
14	18	0.8	-1514.4	-2993.9	12721.3
	13	0.5	1345.9	-10296.4	12505.2
15	18	0.8	-817.5	-5522.6	5244.2

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
	13	0.5	605.5	-8550.6	6613.4
16	18	0.7	-1025.1	-4146.7	6365.9
	13	0.5	884.2	-7748.3	7465.7
17	18	0.6	-701.3	-2610.5	4997.2
	13	0.4	654.7	-5209.7	5751.6
18	18	0.4	134.5	-3472.9	-1836.8
	13	0.4	-148.8	-2115.5	-155.4
19	18	0.5	-372.5	-3332.0	761.1
	13	0.4	350.6	-3743.3	2425.1
20	18	0.4	463.3	-4194.4	-6072.9
	13	0.5	-453.0	-649.2	-3481.8
21	18	0.4	1479.4	-7244.6	-11180.5
	13	0.6	-1611.4	-784.9	-8036.9
22	18	0.4	1271.7	-5868.6	-10058.8
	13	0.5	-1332.7	17.4	-7184.6
23	18	0.3	1968.7	-8397.4	-17535.9
	13	0.6	-2073.1	1763.2	-13076.4
24	18	0.3	1761.0	-7021.5	-16414.2
	13	0.5	-1794.4	2565.5	-12224.1
25	18	0.6	202.8	-7337.1	-3234.3
	13	0.6	-372.1	-5318.5	-674.3
26	18	0.6	220.0	-6020.8	-2557.1
	13	0.5	-361.4	-4550.4	-218.8
27	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
28	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
29	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
30	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
31	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
32	18	0.6	223.6	-5858.2	-2482.2
	13	0.5	-362.5	-4408.5	-252.2
33	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
34	18	0.6	225.7	-5760.7	-2437.3
	13	0.5	-363.2	-4323.4	-272.2
35	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
36	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
37	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
38	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
39	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
40	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
41	18	0.6	227.1	-5695.6	-2407.3
	13	0.5	-363.6	-4266.6	-285.6
42	18	0.7	14.0	-7047.7	905.3
	13	0.6	-282.8	-7525.1	2602.7
43	18	0.6	766.8	-7823.7	-5247.2
	13	0.6	-1006.5	-4739.3	-2715.6
44	18	0.7	310.5	-7698.7	-2913.6
	13	0.6	-557.2	-6191.6	-396.3
45	18	0.6	1063.3	-8474.7	-9066.1
	13	0.6	-1280.9	-3405.8	-5714.6
46	18	0.8	-1154.7	-4502.3	10210.7
	13	0.5	925.4	-10420.1	10469.9
47	18	0.8	-1341.7	-3262.9	11214.6
	13	0.5	1176.3	-9700.8	11232.1
48	18	0.8	-713.3	-5541.7	4479.2
	13	0.5	508.8	-8118.4	5924.5
49	18	0.7	-900.2	-4302.3	5483.0
	13	0.5	759.7	-7399.1	6686.7
50	18	0.6	-609.0	-2916.6	4251.6
	13	0.4	553.7	-5127.5	5143.4
51	18	0.5	143.7	-3692.6	-1901.0
	13	0.5	-170.0	-2341.7	-174.9

Comb.	Nodo	Pressione [kg/cm²]	Mt [kgm]	Taglio [kg]	MFlet. [kgm]
52	18	0.5	-312.5	-3567.5	432.6
	13	0.4	279.3	-3793.9	2144.4
53	18	0.4	440.2	-4343.6	-5719.9
	13	0.5	-444.4	-1008.2	-3173.9
54	18	0.4	1354.4	-7089.0	-10297.6
	13	0.6	-1486.9	-1134.2	-7257.9
55	18	0.4	1167.5	-5849.6	-9293.7
	13	0.5	-1236.0	-414.9	-6495.7
56	18	0.4	1795.9	-8128.4	-16029.2
	13	0.6	-1903.5	1167.6	-11803.3
57	18	0.3	1609.0	-6889.0	-15025.3
	13	0.5	-1652.6	1886.8	-11041.1
58	18	0.8	-21.9	-7276.0	1464.9
	13	0.6	-269.2	-8075.4	3090.6
59	18	0.6	857.9	-8183.1	-5726.7
	13	0.6	-1115.1	-4819.1	-3125.9
60	18	0.7	324.6	-8036.9	-2999.8
	13	0.6	-589.9	-6517.3	-415.5
61	18	0.6	1204.5	-8944.1	-10191.4
	13	0.6	-1435.8	-3261.1	-6632.0
62	18	0.9	-1388.1	-4300.5	12342.0
	13	0.5	1143.0	-11459.3	12286.3
63	18	0.8	-1606.5	-2851.9	13515.6
	13	0.5	1436.3	-10618.4	13177.4
64	18	0.8	-872.1	-5515.7	5641.8
	13	0.5	656.1	-8769.0	6973.0
65	18	0.7	-1090.5	-4067.1	6815.4
	13	0.5	949.4	-7928.0	7864.1
66	18	0.6	-750.2	-2447.2	5376.8
	13	0.4	708.6	-5272.2	6060.8
67	18	0.4	129.6	-3354.4	-1814.8
	13	0.4	-137.3	-2015.9	-155.7
68	18	0.5	-403.7	-3208.2	912.2
	13	0.4	387.9	-3714.1	2554.8
69	18	0.4	476.2	-4115.3	-6279.4
	13	0.4	-458.0	-457.9	-3661.7
70	18	0.4	1544.8	-7324.2	-11630.0
	13	0.6	-1676.6	-605.2	-8435.3
71	18	0.4	1326.3	-5875.6	-10456.4
	13	0.5	-1383.3	235.7	-7544.2
72	18	0.3	2060.8	-8539.4	-18330.2
	13	0.6	-2163.5	2085.1	-13748.6
73	18	0.3	1842.3	-7090.8	-17156.6
	13	0.5	-1870.2	2926.1	-12857.5

Combinazioni agli Stati Limite di Operatività

Massimi spostamenti differenziali orizzontali

- Fattore moltiplicativo spostamenti dovuti al sisma b 1
- c 1
- Controllo degli spostamenti di interpiano dU inferiore a 0.0033 H

N.B. Nelle combinazioni SLD b è moltiplicato per q_{SLD}=1.50

Comb.	U_x		U_y		U_z		$\|U_{xyz}\|$	
	Nodi	U_x [cm]	Nodi	U_y [cm]	Nodi	U_z [cm]	Nodi	$\|U_{xyz}\|$ [cm]
58	7-107	0.35	18-118	0.17	18-118	-0.00	7-107	0.39
59	7-107	0.34	14-114	-0.15	14-114	0.00	1-101	0.37
60	18-118	0.35	14-114	0.20	1-101	0.00	14-114	0.41
61	18-118	0.37	18-118	-0.21	7-107	-0.00	18-118	0.43
62	7-107	0.16	18-118	0.47	18-118	-0.00	7-107	0.50
63	18-118	-0.18	18-118	0.49	7-107	0.00	18-118	0.52
64	18-118	0.13	14-114	0.42	1-101	0.00	14-114	0.44
65	7-107	-0.13	14-114	0.40	1-101	0.00	1-101	0.42
66	18-118	-0.37	18-118	0.21	7-107	0.00	18-118	0.43
67	18-118	-0.35	14-114	-0.20	1-101	-0.00	14-114	0.41
68	7-107	-0.34	14-114	0.15	14-114	-0.00	1-101	0.37
69	7-107	-0.35	18-118	-0.17	18-118	0.00	7-107	0.39
70	7-107	0.13	14-114	-0.40	1-101	-0.00	1-101	0.42
71	18-118	-0.13	14-114	-0.42	1-101	-0.00	14-114	0.44
72	18-118	0.18	18-118	-0.49	7-107	-0.00	18-118	0.52
73	7-107	-0.16	18-118	-0.47	18-118	0.00	7-107	0.50

Spostamenti Max in direzione U_x [cm]

Nodi	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
7 107	58	**0.35**	0.34	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	-0.35	0.13	-0.06	0.03	-0.16
7 107	59	0.35	**0.34**	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	-0.35	0.13	-0.06	0.03	-0.16
18 118	60	0.29	0.31	**0.35**	0.37	0.02	-0.18	0.13	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	-0.13	0.18	-0.02
18 118	61	0.29	0.31	0.35	**0.37**	0.02	-0.18	0.13	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	-0.13	0.18	-0.02
7 107	62	0.35	0.34	0.29	0.28	**0.16**	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	-0.35	0.13	-0.06	0.03	-0.16
18 118	63	0.29	0.31	0.35	0.37	0.02	**-0.18**	0.13	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	-0.13	0.18	-0.02
18 118	64	0.29	0.31	0.35	0.37	0.02	-0.18	**0.13**	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	-0.13	0.18	-0.02
7 107	65	0.35	0.34	0.29	0.28	0.16	-0.03	0.06	**-0.13**	-0.28	-0.29	-0.34	-0.35	0.13	-0.06	0.03	-0.16
18 118	66	0.29	0.31	0.35	0.37	0.02	-0.18	0.13	-0.07	**-0.37**	-0.35	-0.31	-0.29	0.07	-0.13	0.18	-0.02
18 118	67	0.29	0.31	0.35	0.37	0.02	-0.18	0.13	-0.07	-0.37	**-0.35**	-0.31	-0.29	0.07	-0.13	0.18	-0.02
7 107	68	0.35	0.34	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	**-0.34**	-0.35	0.13	-0.06	0.03	-0.16
7 107	69	0.35	0.34	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	**-0.35**	0.13	-0.06	0.03	-0.16
7 107	70	0.35	0.34	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	-0.35	**0.13**	-0.06	0.03	-0.16
18 118	71	0.29	0.31	0.35	0.37	0.02	-0.18	0.13	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	**-0.13**	0.18	-0.02
18 118	72	0.29	0.31	0.35	0.37	0.02	-0.18	0.13	-0.07	-0.37	-0.35	-0.31	-0.29	0.07	-0.13	**0.18**	-0.02
7 107	73	0.35	0.34	0.29	0.28	0.16	-0.03	0.06	-0.13	-0.28	-0.29	-0.34	-0.35	0.13	-0.06	0.03	**-0.16**

Spostamenti Max in direzione U_y [cm]

Nodi	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
18 118	58	**0.17**	-0.06	0.01	-0.21	0.47	0.49	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	-0.47
14 114	59	0.04	**-0.15**	0.20	0.02	0.21	0.19	0.42	0.40	-0.02	-0.20	0.15	-0.04	-0.40	-0.42	-0.19	-0.21
14 114	60	0.04	-0.15	**0.20**	0.02	0.21	0.19	0.42	0.40	-0.02	-0.20	0.15	-0.04	-0.40	-0.42	-0.19	-0.21
18 118	61	0.17	-0.06	0.01	**-0.21**	0.47	0.49	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	-0.47
18 118	62	0.17	-0.06	0.01	-0.21	**0.47**	0.49	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	-0.47
18 118	63	0.17	-0.06	0.01	-0.21	0.47	**0.49**	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	-0.47
14 114	64	0.04	-0.15	0.20	0.02	0.21	0.19	**0.42**	0.40	-0.02	-0.20	0.15	-0.04	-0.40	-0.42	-0.19	-0.21
14 114	65	0.04	-0.15	0.20	0.02	0.21	0.19	0.42	**0.40**	-0.02	-0.20	0.15	-0.04	-0.40	-0.42	-0.19	-0.21
18 118	66	0.17	-0.06	0.01	-0.21	0.47	0.49	0.27	0.28	**0.21**	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	-0.47
14 114	67	0.04	-0.15	0.20	0.02	0.21	0.19	0.42	0.40	-0.02	**-0.20**	0.15	-0.04	-0.40	-0.42	-0.19	-0.21
14 114	68	0.04	-0.15	0.20	0.02	0.21	0.19	0.42	0.40	-0.02	-0.20	**0.15**	-0.04	-0.40	-0.42	-0.19	-0.21
18 118	69	0.17	-0.06	0.01	-0.21	0.47	0.49	0.27	0.28	0.21	-0.01	0.06	**-0.17**	-0.28	-0.27	-0.49	-0.47
14 114	70	0.04	-0.15	0.20	0.02	0.21	0.19	0.42	0.40	-0.02	-0.20	0.15	-0.04	**-0.40**	-0.42	-0.19	-0.21
14 114	71	0.04	-0.15	0.20	0.02	0.21	0.19	0.42	0.40	-0.02	-0.20	0.15	-0.04	-0.40	**-0.42**	-0.19	-0.21
18 118	72	0.17	-0.06	0.01	-0.21	0.47	0.49	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	**-0.49**	-0.47
18 118	73	0.17	-0.06	0.01	-0.21	0.47	0.49	0.27	0.28	0.21	-0.01	0.06	-0.17	-0.28	-0.27	-0.49	**-0.47**

Spostamenti Max in direzione U_z [cm]

Nodi	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
18 118	58	**-0.00**	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 114	59	0.00	**0.00**	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00
1 101	60	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7 107	61	-0.00	-0.00	-0.00	**-0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00
18 118	62	-0.00	-0.00	-0.00	-0.00	**-0.00**	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 107	63	-0.00	-0.00	-0.00	-0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00
1 101	64	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1 101	65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7 107	66	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00
1 101	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	**-0.00**	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
14 114	68	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	**-0.00**	-0.00	0.00	0.00	0.00	0.00
18 118	69	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00
1 101	70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00	**-0.00**	-0.00	-0.00	-0.00
1 101	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	**-0.00**	-0.00	-0.00
7 107	72	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	**-0.00**	-0.00
18 118	73	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**

Spostamenti Max in direzione $|U_{xyz}|$ [cm]

Nodi	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
7 107	58	**0.39**	0.35	0.29	0.35	0.50	0.49	0.27	0.31	0.35	0.29	0.35	0.39	0.31	0.27	0.49	0.50
1 101	59	0.35	**0.37**	0.35	0.28	0.26	0.19	0.42	0.42	0.28	0.35	0.37	0.35	0.42	0.42	0.19	0.26
14 114	60	0.30	0.34	**0.41**	0.37	0.21	0.26	0.44	0.41	0.37	0.41	0.34	0.30	0.41	0.44	0.26	0.21
18 118	61	0.34	0.31	0.35	**0.43**	0.47	0.52	0.30	0.29	0.43	0.35	0.31	0.34	0.29	0.30	0.52	0.47
7 107	62	0.39	0.35	0.29	0.35	**0.50**	0.49	0.27	0.31	0.35	0.29	0.35	0.39	0.31	0.27	0.49	0.50
18 118	63	0.34	0.31	0.35	0.43	0.47	**0.52**	0.30	0.29	0.43	0.35	0.31	0.34	0.29	0.30	0.52	0.47
14 114	64	0.30	0.34	0.41	0.37	0.21	0.26	**0.44**	0.41	0.37	0.41	0.34	0.30	0.41	0.44	0.26	0.21
1 101	65	0.35	0.37	0.35	0.28	0.26	0.19	0.42	**0.42**	0.28	0.35	0.37	0.35	0.42	0.42	0.19	0.26
18 118	66	0.34	0.31	0.35	0.43	0.47	0.52	0.30	0.29	**0.43**	0.35	0.31	0.34	0.29	0.30	0.52	0.47
14 114	67	0.30	0.34	0.41	0.37	0.21	0.26	0.44	0.41	0.37	**0.41**	0.34	0.30	0.41	0.44	0.26	0.21
1 101	68	0.35	0.37	0.35	0.28	0.26	0.19	0.42	0.42	0.28	0.35	**0.37**	0.35	0.42	0.42	0.19	0.26
7 107	69	0.39	0.35	0.29	0.35	0.50	0.49	0.27	0.31	0.35	0.29	0.35	**0.39**	0.31	0.27	0.49	0.50
1 101	70	0.35	0.37	0.35	0.28	0.26	0.19	0.42	0.42	0.28	0.35	0.37	0.35	**0.42**	0.42	0.19	0.26
14 114	71	0.30	0.34	0.41	0.37	0.21	0.26	0.44	0.41	0.37	0.41	0.34	0.30	0.41	**0.44**	0.26	0.21
18 118	72	0.34	0.31	0.35	0.43	0.47	0.52	0.30	0.29	0.43	0.35	0.31	0.34	0.29	0.30	**0.52**	0.47
7 107	73	0.39	0.35	0.29	0.35	0.50	0.49	0.27	0.31	0.35	0.29	0.35	0.39	0.31	0.27	0.49	**0.50**

Spostamenti Massimi :

Combinazione di Carico 63 Fra i nodi 18 118 $|U_{xyz}|$ Spostamento 0.52 [cm]

Non si sono rilevati spostamenti di interpiano superiori a 0.003300 H

du/H x 1000 Max in direzione U_x

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
7 107	0.00	0.00	375.00	375.00	58	**0.935**	0.909	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	-0.935	0.334	-0.170	0.083	-0.420
7 107	0.00	0.00	375.00	375.00	59	0.935	**0.909**	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	-0.935	0.334	-0.170	0.083	-0.420
18 118	0.00	0.00	375.00	375.00	60	0.782	0.819	**0.943**	0.980	0.060	-0.469	0.346	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	-0.346	0.469	-0.060
18 118	0.00	0.00	375.00	375.00	61	0.782	0.819	0.943	**0.980**	0.060	-0.469	0.346	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	-0.346	0.469	-0.060
7 107	0.00	0.00	375.00	375.00	62	0.935	0.909	0.770	0.744	**0.420**	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	-0.935	0.334	-0.170	0.083	-0.420
18 118	0.00	0.00	375.00	375.00	63	0.782	0.819	0.943	0.980	0.060	**-0.469**	0.346	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	-0.346	0.469	-0.060
18 118	0.00	0.00	375.00	375.00	64	0.782	0.819	0.943	0.980	0.060	-0.469	**0.346**	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	-0.346	0.469	-0.060
7 107	0.00	0.00	375.00	375.00	65	0.935	0.909	0.770	0.744	0.420	-0.083	0.170	**-0.334**	-0.744	-0.770	-0.909	-0.935	0.334	-0.170	0.083	-0.420
18 118	0.00	0.00	375.00	375.00	66	0.782	0.819	0.943	0.980	0.060	-0.469	0.346	-0.183	**-0.980**	-0.943	-0.819	-0.782	0.183	-0.346	0.469	-0.060
18 118	0.00	0.00	375.00	375.00	67	0.782	0.819	0.943	0.980	0.060	-0.469	0.346	-0.183	-0.980	**-0.943**	-0.819	-0.782	0.183	-0.346	0.469	-0.060
7 107	0.00	0.00	375.00	375.00	68	0.935	0.909	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	**-0.909**	-0.935	0.334	-0.170	0.083	-0.420
7 107	0.00	0.00	375.00	375.00	69	0.935	0.909	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	**-0.935**	0.334	-0.170	0.083	-0.420
7	0.00	0.00	375.00	375.00	70	0.935	0.909	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	-0.935	**0.334**	-0.170	0.083	-0.420

107																					
18 118	0.00	0.00	375.00	375.00	71	0.782	0.819	0.943	0.980	0.060	-0.469	0.346	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	**-0.346**	0.469	-0.060
18 118	0.00	0.00	375.00	375.00	72	0.782	0.819	0.943	0.980	0.060	-0.469	0.346	-0.183	-0.980	-0.943	-0.819	-0.782	0.183	-0.346	**0.469**	-0.060
7 107	0.00	0.00	375.00	375.00	73	0.935	0.909	0.770	0.744	0.420	-0.083	0.170	-0.334	-0.744	-0.770	-0.909	-0.935	0.334	-0.170	0.083	**-0.420**

du/H x 1000 Max in direzione U_y

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
18 118	0.00	0.00	375.00	375.00	58	**0.440**	-0.162	0.032	-0.570	1.258	1.297	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	-1.258
14 114	0.00	0.00	375.00	375.00	59	0.094	**-0.392**	0.532	0.046	0.553	0.511	1.110	1.068	-0.046	-0.532	0.392	-0.094	-1.068	-1.110	-0.511	-0.553
14 114	0.00	0.00	375.00	375.00	60	0.094	-0.392	**0.532**	0.046	0.553	0.511	1.110	1.068	-0.046	-0.532	0.392	-0.094	-1.068	-1.110	-0.511	-0.553
18 118	0.00	0.00	375.00	375.00	61	0.440	-0.162	0.032	**-0.570**	1.258	1.297	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	-1.258
18 118	0.00	0.00	375.00	375.00	62	0.440	-0.162	0.032	-0.570	**1.258**	1.297	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	-1.258
18 118	0.00	0.00	375.00	375.00	63	0.440	-0.162	0.032	-0.570	1.258	**1.297**	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	-1.258
14 114	0.00	0.00	375.00	375.00	64	0.094	-0.392	0.532	0.046	0.553	0.511	**1.110**	1.068	-0.046	-0.532	0.392	-0.094	-1.068	-1.110	-0.511	-0.553
14 114	0.00	0.00	375.00	375.00	65	0.094	-0.392	0.532	0.046	0.553	0.511	1.110	**1.068**	-0.046	-0.532	0.392	-0.094	-1.068	-1.110	-0.511	-0.553
18 118	0.00	0.00	375.00	375.00	66	0.440	-0.162	0.032	-0.570	1.258	1.297	0.710	0.749	**0.570**	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	-1.258
14 114	0.00	0.00	375.00	375.00	67	0.094	-0.392	0.532	0.046	0.553	0.511	1.110	1.068	-0.046	**-0.532**	0.392	-0.094	-1.068	-1.110	-0.511	-0.553
14 114	0.00	0.00	375.00	375.00	68	0.094	-0.392	0.532	0.046	0.553	0.511	1.110	1.068	-0.046	-0.532	**0.392**	-0.094	-1.068	-1.110	-0.511	-0.553
18 118	0.00	0.00	375.00	375.00	69	0.440	-0.162	0.032	-0.570	1.258	1.297	0.710	0.749	0.570	-0.032	0.162	**-0.440**	-0.749	-0.710	-1.297	-1.258
14 114	0.00	0.00	375.00	375.00	70	0.094	-0.392	0.532	0.046	0.553	0.511	1.110	1.068	-0.046	-0.532	0.392	-0.094	**-1.068**	-1.110	-0.511	-0.553
14 114	0.00	0.00	375.00	375.00	71	0.094	-0.392	0.532	0.046	0.553	0.511	1.110	1.068	-0.046	-0.532	0.392	-0.094	-1.068	**-1.110**	-0.511	-0.553
18 118	0.00	0.00	375.00	375.00	72	0.440	-0.162	0.032	-0.570	1.258	1.297	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	**-1.297**	-1.258
18 118	0.00	0.00	375.00	375.00	73	0.440	-0.162	0.032	-0.570	1.258	1.297	0.710	0.749	0.570	-0.032	0.162	-0.440	-0.749	-0.710	-1.297	**-1.258**

du/H x 1000 Max in direzione U_z

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
18 118	0.00	0.00	375.00	375.00	58	**-0.005**	-0.002	-0.004	-0.001	-0.007	-0.005	-0.005	-0.003	0.001	0.004	0.002	0.005	0.003	0.005	0.005	0.007
14 114	0.00	0.00	375.00	375.00	59	0.002	**0.005**	0.001	0.003	-0.003	-0.004	-0.005	-0.006	-0.003	-0.001	-0.005	-0.002	0.006	0.005	0.004	0.003
1 101	0.00	0.00	375.00	375.00	60	0.004	0.000	**0.006**	0.002	0.005	0.003	0.008	0.007	-0.002	-0.006	-0.000	-0.004	-0.007	-0.008	-0.003	-0.005
7 107	0.00	0.00	375.00	375.00	61	-0.002	-0.005	-0.003	**-0.006**	0.005	0.007	0.003	0.005	0.006	0.003	0.005	0.002	-0.005	-0.003	-0.007	-0.005
18 118	0.00	0.00	375.00	375.00	62	-0.005	-0.002	-0.004	-0.001	**-0.007**	-0.005	-0.005	-0.003	0.001	0.004	0.002	0.005	0.003	0.005	0.005	0.007
7 107	0.00	0.00	375.00	375.00	63	-0.002	-0.005	-0.003	-0.006	0.005	**0.007**	0.003	0.005	0.006	0.003	0.005	0.002	-0.005	-0.003	-0.007	-0.005
1 101	0.00	0.00	375.00	375.00	64	0.004	0.000	0.006	0.002	0.005	0.003	**0.008**	0.007	-0.002	-0.006	-0.000	-0.004	-0.007	-0.008	-0.003	-0.005
1 101	0.00	0.00	375.00	375.00	65	0.004	0.000	0.006	0.002	0.005	0.003	0.008	**0.007**	-0.002	-0.006	-0.000	-0.004	-0.007	-0.008	-0.003	-0.005
7 107	0.00	0.00	375.00	375.00	66	-0.002	-0.005	-0.003	-0.006	0.005	0.007	0.003	0.005	**0.006**	0.003	0.005	0.002	-0.005	-0.003	-0.007	-0.005
1 101	0.00	0.00	375.00	375.00	67	0.004	0.000	0.006	0.002	0.005	0.003	0.008	0.007	-0.002	**-0.006**	-0.000	-0.004	-0.007	-0.008	-0.003	-0.005
14 114	0.00	0.00	375.00	375.00	68	0.002	0.005	0.001	0.003	-0.003	-0.004	-0.005	-0.006	-0.003	-0.001	**-0.005**	-0.002	0.006	0.005	0.004	0.003
18 118	0.00	0.00	375.00	375.00	69	-0.005	-0.002	-0.004	-0.001	-0.007	-0.005	-0.005	-0.003	0.001	0.004	0.002	**0.005**	0.003	0.005	0.005	0.007
1 101	0.00	0.00	375.00	375.00	70	0.004	0.000	0.006	0.002	0.005	0.003	0.008	0.007	-0.002	-0.006	-0.000	-0.004	**-0.007**	-0.008	-0.003	-0.005
1	0.00	0.00	375.00	375.00	71	0.004	0.000	0.006	0.002	0.005	0.003	0.008	0.007	-0.002	-0.006	-0.000	-0.004	-0.007	**-0.008**	-0.003	-0.005

101																						
7 107	0.00	0.00	375.00	375.00	72	-0.002	-0.005	-0.003	-0.006	0.005	0.007	0.003	0.005	0.006	0.003	0.005	0.002	-0.005	-0.003	**-0.007**	-0.005
18 118	0.00	0.00	375.00	375.00	73	-0.005	-0.002	-0.004	-0.001	-0.007	-0.005	-0.005	-0.003	0.001	0.004	0.002	0.005	0.003	0.005	0.005	**0.007**

du/H x 1000 Max in direzione $|U_{xyz}|$

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
7 107	0.00	0.00	375.00	375.00	58	**1.033**	0.923	0.770	0.937	1.326	1.300	0.730	0.820	0.937	0.770	0.923	1.033	0.820	0.730	1.300	1.326
1 101	0.00	0.00	375.00	375.00	59	0.939	**0.990**	0.936	0.745	0.695	0.518	1.123	1.119	0.745	0.936	0.990	0.939	1.119	1.123	0.518	0.695
14 114	0.00	0.00	375.00	375.00	60	0.788	0.908	**1.083**	0.981	0.556	0.694	1.162	1.083	0.981	1.083	0.908	0.788	1.083	1.162	0.694	0.556
18 118	0.00	0.00	375.00	375.00	61	0.897	0.835	0.944	**1.134**	1.259	1.379	0.790	0.771	1.134	0.944	0.835	0.897	0.771	0.790	1.379	1.259
7 107	0.00	0.00	375.00	375.00	62	1.033	0.923	0.770	0.937	**1.326**	1.300	0.730	0.820	0.937	0.770	0.923	1.033	0.820	0.730	1.300	1.326
18 118	0.00	0.00	375.00	375.00	63	0.897	0.835	0.944	1.134	1.259	**1.379**	0.790	0.771	1.134	0.944	0.835	0.897	0.771	0.790	1.379	1.259
14 114	0.00	0.00	375.00	375.00	64	0.788	0.908	1.083	0.981	0.556	0.694	**1.162**	1.083	0.981	1.083	0.908	0.788	1.083	1.162	0.694	0.556
1 101	0.00	0.00	375.00	375.00	65	0.939	0.990	0.936	0.745	0.695	0.518	1.123	**1.119**	0.745	0.936	0.990	0.939	1.119	1.123	0.518	0.695
18 118	0.00	0.00	375.00	375.00	66	0.897	0.835	0.944	1.134	1.259	1.379	0.790	0.771	**1.134**	0.944	0.835	0.897	0.771	0.790	1.379	1.259
14 114	0.00	0.00	375.00	375.00	67	0.788	0.908	1.083	0.981	0.556	0.694	1.162	1.083	0.981	**1.083**	0.908	0.788	1.083	1.162	0.694	0.556
1 101	0.00	0.00	375.00	375.00	68	0.939	0.990	0.936	0.745	0.695	0.518	1.123	1.119	0.745	0.936	**0.990**	0.939	1.119	1.123	0.518	0.695
7 107	0.00	0.00	375.00	375.00	69	1.033	0.923	0.770	0.937	1.326	1.300	0.730	0.820	0.937	0.770	0.923	**1.033**	0.820	0.730	1.300	1.326
1 101	0.00	0.00	375.00	375.00	70	0.939	0.990	0.936	0.745	0.695	0.518	1.123	1.119	0.745	0.936	0.990	0.939	**1.119**	1.123	0.518	0.695
14 114	0.00	0.00	375.00	375.00	71	0.788	0.908	1.083	0.981	0.556	0.694	1.162	1.083	0.981	1.083	0.908	0.788	1.083	**1.162**	0.694	0.556
18 118	0.00	0.00	375.00	375.00	72	0.897	0.835	0.944	1.134	1.259	1.379	0.790	0.771	1.134	0.944	0.835	0.897	0.771	0.790	**1.379**	1.259
7 107	0.00	0.00	375.00	375.00	73	1.033	0.923	0.770	0.937	1.326	1.300	0.730	0.820	0.937	0.770	0.923	1.033	0.820	0.730	1.300	**1.326**

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)

Sigla:
WinStrand

Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional

Documentazione in uso:
Manuale teorico - Manuale d'uso

Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  - modellazione generale 6 gradi di libertà per nodo.
  - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  - Via statica equivalente.
  - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 21 Gennaio 2019, n. 7 "*Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018*"
- D.M. del 17 Gennaio 2018 "*Aggiornamento delle «Norme tecniche per le costruzioni»*"
- Circolare del 2 Febbraio 2009, n. 617 "*Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008*"
- D.M. del 14 Gennaio 2008 "*Approvazione delle nuove norme tecniche per le costruzioni*"
- Ordinanza n. 3274 del 20 Marzo 2003. "*Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica*"
- Ordinanza n. 3316. "*Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003*"
- D.M. del 16 Gennaio 1996. "*Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»*".
- D.M del 16 Gennaio 1996. "*Norme tecniche per le costruzioni in zone sismiche*"
- D.M. del 9 Gennaio 1996. "*Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche*".
- D.M. del 14 Febbraio 1992. "*Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche*".
- D.M. del 3 Ottobre 1978. "*Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi*".
- D.M. del 3 Marzo 1975. "*Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche*".
- D.M. del 3 Marzo 1975. "*Approvazione delle norme tecniche per le costruzioni in zone sismiche*".
- Legge n. 64 del 2 Febbraio 1974. "*Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche*".
- Legge n. 1086 del 5 Novembre 1971. "*Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica*".
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche travi

Modalità di verifica

Le travi vengono progettate-verificate a flessione retta e taglio nel piano longitudinale della trave sulla base dell'inviluppo delle sollecitazioni.

Viene comunque sempre predisposta l'armatura minima mentre gli sforzi di taglio vengono integralmente assorbiti dalle staffe.

Le operazioni di progetto-verifica vengono condotte, per ogni asta, in tre diverse sezioni e precisamente in corrispondenza dei fili esterni dei pilastri e della sezione in campata nella quale viene riscontrato il massimo momento positivo (negativo).

I momenti si intendono postivi se tendono le fibre di intradosso (inferiori).

Per quanto concerne il progetto e la verifica delle travi a taglio esse vengono condotte nel modo seguente:

- Si controlla se la trave necessita o meno di armatura aggiuntiva a taglio:
    1. Se non occorre armatura aggiuntiva a taglio si procede a disporre la staffatura minima di regolamento e la progettazione ha termine.
    2. Se occorre armatura aggiuntiva a taglio la staffatuta viene progettata andando a suddividere la trave, a seconda del caso, in uno, tre o cinque conci:
        - due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione;
        - due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento
        - un restante (eventuale) concio di chiusura centrale.
- In ogni caso l'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Per quanto concerne le verifiche a taglio esse vengono condotte suddividendo la trave in cinque conci:

due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione; due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento; il restante (eventuale) concio di chiusura centrale.

L'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Simbologia utilizzata:

Af Es.
Area di ferro all'estradosso

Af In.
Area di ferro all'intradosso

Sigb.Es.
Tensione del calcestruzzo estradosso

Sigb. In.
Tensione del calcestruzzo intradosso

Sigf. Es.
Tensione dell'acciaio estradosso

Sigf. In.
Tensione dell'acciaio intradosso

Sezioni Impiegate: Trave

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Cop. Es [cm]	Cop. In [cm]	cotg θ_I	cotg θ
1	Rett. T1_30x60	B 30 H 60 [cm]	Vertrav	C30/37	1.50	1.00	300.0	170.0	180.0	300.0	135.0	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	3.00	1.00	1.00

Impostazioni di verifica delle sezioni Trave

Sezione	Info	Ausiliaria	Esistente	Secondaria	Campo Elastico	Minimi Cap. 7
1	Rett. T1_30x60 B 30 H 60 [cm]					x

Sezioni Impiegate: Trave di fondazione

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Cop. Es [cm]	Cop. In [cm]	cotg θ_I	cotg θ
1	a Tr F1	B 90 H 80 b 50 h 30 [cm] Terreno numero 1	Verfond	C30/37	1.50	1.00	300.0	170.0	180.0	300.0	135.0	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	3.00	1.00	1.00
2	Rett. F2_30x80	B 30 H 80 [cm] Terreno numero 1	Verfond	C30/37	1.50	1.00	300.0	170.0	180.0	300.0	135.0	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	3.00	1.00	1.00

Impostazioni di verifica delle sezioni Trave di fondazione

Sezione	Info	Ausiliaria	Esistente	Secondaria	Campo Elastico	Minimi Cap. 7
1	a Tr F1 B 90 H 80 b 50 h 30 [cm] Terreno numero 1				x	x
2	Rett. F2_30x80 B 30 H 80 [cm] Terreno numero 1					x

Verifica a fessurazione indiretta

Fattore di sovraresistenza Travi $\gamma_{R,d\ (Nuovo)}$=1.10 $\gamma_{R,d\ (Esistente)}$=0.00
Fattore di sovraresistenza delle azioni sulle Fondazioni $\gamma_{R,d\ (Nuovo)}$=1.10 $\gamma_{R,d\ (Esistente)}$=0.00

Verifiche Travate :

Travata: *Travata 1 Nodi 1 2 3 4 5 6 7*

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
1	0.15	12.57	15.71			9808.0	34681.2	0.18	-3219.0	-42344.0	0.26					
					SLE Rare	3153.2			0.0			0.0	5.6	356.3	55.7	
					SLE Freq.	2722.3			0.0			0.0	4.8	307.6	48.1	OK
					SLE Q.P.	2695.8			0.0			0.0	4.8	304.6	47.7	OK
Camp.	1.96	12.57	15.71			13376.4	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	9205.1			0.0			0.0	16.3	1040.2	162.7	
					SLE Freq.	7276.3			0.0			0.0	12.9	822.2	128.6	OK
					SLE Q.P.	7189.0			0.0			0.0	12.7	812.4	127.1	OK
2	3.77	12.57	15.71			9328.0	34681.2	0.18	-949.4	-42344.0	0.26					
					SLE Rare	3963.3			0.0			0.0	7.0	447.9	70.1	
					SLE Freq.	2911.9			0.0			0.0	5.2	329.0	51.5	OK
					SLE Q.P.	2867.9			0.0			0.0	5.1	324.1	50.7	OK
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
2	0.00	12.57	15.71			7205.2	35187.4	0.08	-2454.6	-43804.3	0.10					
					SLE Rare	3963.3			0.0			0.0	11.6	456.7	134.3	
					SLE Freq.	2911.9			0.0			0.0	8.6	335.6	98.7	OK
					SLE Q.P.	2867.9			0.0			0.0	8.4	330.5	97.2	OK
Camp.	0.58	12.57	15.71			4614.6	35187.4	0.08	-8677.0	-43804.3	0.10					
					SLE Rare	0.0			-1114.3			3.2	0.0	38.5	104.0	
					SLE Freq.	0.0			-1098.4			3.2	0.0	38.0	102.6	OK
					SLE Q.P.	0.0			-1094.5			3.2	0.0	37.8	102.2	OK
3	1.16	12.57	15.71			2147.5	35187.4	0.08	-12780.5	-43804.3	0.10					
					SLE Rare	0.0			-6308.2			18.2	0.0	218.2	588.9	
					SLE Freq.	0.0			-5165.1			14.9	0.0	178.6	482.2	OK
					SLE Q.P.	0.0			-5104.4			14.7	0.0	176.5	476.6	OK
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
3	0.00	12.57	15.71			4678.1	35187.4	0.08	-12973.8	-43804.3	0.10					
					SLE Rare	0.0			-4476.6			12.9	0.0	154.8	417.9	
					SLE Freq.	0.0			-3885.1			11.2	0.0	134.4	362.7	OK
					SLE Q.P.	0.0			-3851.4			11.1	0.0	133.2	359.6	OK
Camp.	2.46	12.57	12.57			2565.7	35182.6	0.08	-579.3	-35182.6	0.08					
					SLE Rare	1316.2			0.0			0.0	4.1	152.3	47.5	
					SLE Freq.	1097.0			0.0			0.0	3.4	126.9	39.6	OK
					SLE Q.P.	1087.8			0.0			0.0	3.4	125.9	39.3	OK
4	4.92	12.57	12.57			3319.0	35182.6	0.08	-14266.1	-35182.6	0.08					
					SLE Rare	0.0			-6731.0			20.8	0.0	243.0	779.0	
					SLE Freq.	0.0			-5246.4			16.2	0.0	189.4	607.2	OK
					SLE Q.P.	0.0			-5173.8			16.0	0.0	186.8	598.8	OK
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
4	0.30	12.57	12.57			4327.0	35182.6	0.08	-15134.0	-35182.6	0.08					
					SLE Rare	0.0			-6557.5			20.3	0.0	236.7	758.9	
					SLE Freq.	0.0			-5165.5			16.0	0.0	186.5	597.8	OK
					SLE Q.P.	0.0			-5098.5			15.8	0.0	184.1	590.0	OK
Camp.	2.85	21.18	12.57			3927.6	58708.2	0.12	0.0	-35188.9	0.08					
					SLE Rare	2614.6			0.0			0.0	6.9	183.4	85.3	
					SLE Freq.	2201.9			0.0			0.0	5.8	154.4	71.8	OK
					SLE Q.P.	2183.0			0.0			0.0	5.8	153.1	71.2	OK
5	5.40	12.57	15.71			6274.1	35187.4	0.08	-12481.7	-43804.3	0.10					
					SLE Rare	0.0			-3559.6			10.3	0.0	123.1	332.3	
					SLE Freq.	0.0			-2873.9			8.3	0.0	99.4	268.3	OK
					SLE Q.P.	0.0			-2835.5			8.2	0.0	98.1	264.7	OK
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
5	0.25	12.57	15.71			2244.1	35187.4	0.08	-11016.0	-43804.3	0.10					
					SLE Rare	0.0			-5353.1			15.5	0.0	185.1	499.8	
					SLE Freq.	0.0			-4053.8			11.7	0.0	140.2	378.5	OK
					SLE Q.P.	0.0			-3987.2			11.5	0.0	137.9	372.3	OK
Camp.	1.73	12.57	15.71			2672.4	35187.4	0.08	-2772.2	-43804.3	0.10					
					SLE Rare	615.4			-14.4			0.0	1.8	70.9	20.9	
					SLE Freq.	231.1			-23.4			0.1	0.7	26.6	7.8	OK
					SLE Q.P.	218.9			-23.4			0.1	0.6	25.2	7.4	OK
6	3.21	12.57	15.71			10021.6	35187.4	0.08	-658.6	-43804.3	0.10					
					SLE Rare	5727.5			0.0			0.0	16.8	660.1	194.1	
					SLE Freq.	4320.9			0.0			0.0	12.7	498.0	146.4	OK
					SLE Q.P.	4255.9			0.0			0.0	12.5	490.5	144.2	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
6	0.00	12.57	15.71			11944.6	34681.2	0.18	-910.3	-42344.0	0.26					
					SLE Rare	5727.5			0.0			0.0	10.2	647.2	101.2	
					SLE Freq.	4320.9			0.0			0.0	7.7	488.3	76.4	OK
					SLE Q.P.	4255.9			0.0			0.0	7.5	480.9	75.2	OK
Camp.	0.97	12.57	15.71			14974.8	34681.2	0.18	-3931.7	-42344.0	0.26					
					SLE Rare	6898.4			0.0			0.0	12.2	779.5	121.9	
					SLE Freq.	5483.0			0.0			0.0	9.7	619.6	96.9	OK
					SLE Q.P.	5414.1			0.0			0.0	9.6	611.8	95.7	OK
7	1.94	12.57	15.71			15021.4	34681.2	0.18	-8384.0	-42344.0	0.26					
					SLE Rare	3378.1			0.0			0.0	6.0	381.7	59.7	
					SLE Freq.	2947.0			0.0			0.0	5.2	333.0	52.1	OK
					SLE Q.P.	2916.5			0.0			0.0	5.2	329.6	51.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 1 2 Sez. 1 a Tr 90x80x50x30 [cm] F1											

0.15	3.77	3.62	1.00	10419.6	14785.8	144585.0	26765.4	1582.5	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 2 3 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.00	0.86	0.86	1.00	10007.4	10518.3	86751.0	26765.4	1400.1	11079.7	2594.3	ø 8 4br. 20.0'
Trave di fondazione 3 4 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.00	4.82	4.82	1.00	8964.7	10518.3	86751.0	26765.4	192.4	11079.7	2594.3	ø 8 4br. 20.0'
Trave di fondazione 4 5 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.40	5.26	4.86	1.00	9495.8	10518.3	86751.0	26765.4	142.5	11079.7	2594.3	ø 8 4br. 20.0'
Trave di fondazione 5 6 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.30	3.21	2.91	1.00	6764.0	10518.3	86751.0	26765.4	767.0	11079.7	2594.3	ø 8 4br. 20.0'
Trave di fondazione 6 7 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	1.72	1.72	1.00	8619.3	14785.8	144585.0	26765.4	757.0	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 2 Nodi 8 9 10 11 12 13***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
8	0.15	12.57	12.72			6741.9	34658.9	0.18	-5036.8	-34616.9	0.23					
					SLE Rare	448.6			-548.6			1.3	0.8	50.7	62.0	
					SLE Freq.	414.1			-385.0			0.9	0.7	46.8	43.5	OK
					SLE Q.P.	405.5			-385.0			0.9	0.7	45.9	43.5	OK
Camp.	2.69	12.57	12.72			11437.0	34658.9	0.18	0.0	-34616.9	0.23					
					SLE Rare	7703.3			0.0			0.0	14.0	871.1	141.7	
					SLE Freq.	6727.6			0.0			0.0	12.2	760.8	123.8	OK
					SLE Q.P.	6671.6			0.0			0.0	12.1	754.4	122.7	OK
9	5.23	12.57	12.72			461.7	34658.9	0.18	-9100.7	-34616.9	0.23					
					SLE Rare	0.0			-5103.5			12.3	0.0	136.3	577.0	
					SLE Freq.	0.0			-4939.7			11.9	0.0	131.9	558.5	OK
					SLE Q.P.	0.0			-4898.8			11.8	0.0	130.8	553.9	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
9	0.00	12.57	12.72			0.0	34658.9	0.18	-12378.3	-34616.9	0.23					
					SLE Rare	0.0			-7432.3			17.9	0.0	198.5	840.4	
					SLE Freq.	0.0			-7161.8			17.3	0.0	191.3	809.8	OK
					SLE Q.P.	0.0			-7098.1			17.1	0.0	189.6	802.6	OK
Camp.	2.61	12.57	12.72			5375.2	34658.9	0.18	0.0	-34616.9	0.23					
					SLE Rare	3708.2			0.0			0.0	6.7	419.3	68.2	
					SLE Freq.	3387.4			0.0			0.0	6.1	383.1	62.3	OK
					SLE Q.P.	3358.7			0.0			0.0	6.1	379.8	61.8	OK
10	5.22	12.57	12.57			0.0	34648.1	0.18	-12337.3	-34156.9	0.23					
					SLE Rare	0.0			-8518.4			20.7	0.0	228.5	976.2	
					SLE Freq.	0.0			-7719.3			18.8	0.0	207.0	884.6	OK
					SLE Q.P.	0.0			-7639.3			18.6	0.0	204.9	875.4	OK
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
10	0.30	12.57	12.57			0.0	35182.6	0.08	-9330.1	-35182.6	0.08					
					SLE Rare	0.0			-6487.9			20.1	0.0	234.2	750.8	
					SLE Freq.	0.0			-5888.6			18.2	0.0	212.6	681.5	OK
					SLE Q.P.	0.0			-5829.4			18.1	0.0	210.5	674.6	OK
Camp.	1.35	12.57	12.57			813.3	35182.6	0.08	-4625.1	-35182.6	0.08					
					SLE Rare	0.0			-1387.4			4.3	0.0	50.1	160.6	
					SLE Freq.	0.0			-1250.1			3.9	0.0	45.1	144.7	OK
					SLE Q.P.	0.0			-1236.5			3.8	0.0	44.6	143.1	OK
11	2.40	12.57	12.57			3543.5	35182.6	0.08	0.0	-35182.6	0.08					
					SLE Rare	2418.0			0.0			0.0	7.5	279.8	87.3	
					SLE Freq.	2209.7			0.0			0.0	6.8	255.7	79.8	OK
					SLE Q.P.	2191.0			0.0			0.0	6.8	253.6	79.1	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
11	0.00	12.57	12.57			4682.5	34648.1	0.18	0.0	-34156.9	0.23					
					SLE Rare	2418.0			0.0			0.0	4.4	273.5	44.2	
					SLE Freq.	2209.7			0.0			0.0	4.0	250.0	40.4	OK
					SLE Q.P.	2191.0			0.0			0.0	4.0	247.8	40.0	OK
Camp.	1.60	13.98	19.11			5241.0	38524.9	0.19	-1226.8	-51199.2	0.28					
					SLE Rare	2780.5			0.0			0.0	4.6	282.8	47.1	
					SLE Freq.	2476.6			0.0			0.0	4.1	251.9	41.9	OK
					SLE Q.P.	2459.2			0.0			0.0	4.1	250.1	41.6	OK
12	3.20	12.57	12.72			1425.6	34658.9	0.18	-10171.7	-34616.9	0.23					
					SLE Rare	0.0			-5110.3			12.3	0.0	136.5	577.8	
					SLE Freq.	0.0			-4876.6			11.8	0.0	130.2	551.4	OK
					SLE Q.P.	0.0			-4818.3			11.6	0.0	128.7	544.8	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
12	0.15	12.57	12.72			281.0	34658.9	0.18	-8855.4	-34616.9	0.23					
					SLE Rare	0.0			-5234.3			12.6	0.0	139.8	591.8	
					SLE Freq.	0.0			-5010.7			12.1	0.0	133.8	566.6	OK
					SLE Q.P.	0.0			-4954.8			12.0	0.0	132.3	560.2	OK
Camp.	2.80	12.57	12.72			11498.3	34658.9	0.18	0.0	-34616.9	0.23					
					SLE Rare	7746.1			0.0			0.0	14.0	876.0	142.5	
					SLE Freq.	6785.7			0.0			0.0	12.3	767.4	124.8	OK
					SLE Q.P.	6729.6			0.0			0.0	12.2	761.0	123.8	OK
13	5.45	12.57	12.72			7913.2	34658.9	0.18	-7001.8	-34616.9	0.23					
					SLE Rare	258.1			-718.8			1.7	0.5	29.2	81.3	
					SLE Freq.	222.9			-551.4			1.3	0.4	25.2	62.3	OK
					SLE Q.P.	214.0			-551.4			1.3	0.4	24.2	62.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 8 9 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.15	5.13	4.98	1.00	12736.1	14785.8	144585.0	26765.4	1556.1	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 9 10 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	5.22	5.22	1.00	13770.3	14785.8	144585.0	26765.4	1001.9	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 10 11 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.40	2.40	2.00	1.00	7616.7	10518.3	86751.0	26765.4	277.7	11079.7	2594.3	ø 8 4br. 20.0'
Trave di fondazione 11 12 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	3.20	3.20	1.00	10844.2	14785.8	144585.0	26765.4	272.9	29600.8	5721.1	ø 8 4br. 20.0'

								Trave di fondazione 12 13 Sez. 1 a Tr 90x80x50x30 [cm] F1				
0.15	5.45	5.30	1.00	12699.0	14785.8	144585.0	26765.4	1122.8	29600.8	5721.1	ø 8 4br. 20.0'	

Travata: ***Travata 3 Nodi 14 15 16 17 18***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
14	0.15	12.57	15.71			7805.5	34681.2	0.18	-5430.7	-42344.0	0.26					
					SLE Rare	1132.0			0.0			0.0	2.0	127.9	20.0	
					SLE Freq.	1009.4			0.0			0.0	1.8	114.1	17.8	OK
					SLE Q.P.	998.0			0.0			0.0	1.8	112.8	17.6	OK
Camp.	2.54	12.57	15.71			9867.2	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	6199.7			0.0			0.0	11.0	700.6	109.6	
					SLE Freq.	4980.3			0.0			0.0	8.8	562.8	88.0	OK
					SLE Q.P.	4924.1			0.0			0.0	8.7	556.4	87.0	OK
15	4.93	12.57	15.71			6610.7	34681.2	0.18	-13499.1	-42344.0	0.26					
					SLE Rare	0.0			-4187.5			9.4	0.0	107.4	386.8	
					SLE Freq.	0.0			-3470.2			7.8	0.0	89.0	320.5	OK
					SLE Q.P.	0.0			-3412.8			7.7	0.0	87.5	315.2	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
15	0.00	12.57	15.71			5143.5	34681.2	0.18	-16364.5	-42344.0	0.26					
					SLE Rare	0.0			-6378.9			14.3	0.0	163.6	589.2	
					SLE Freq.	0.0			-5316.3			11.9	0.0	136.3	491.1	OK
					SLE Q.P.	0.0			-5238.3			11.8	0.0	134.3	483.9	OK
Camp.	2.61	13.40	25.47			3627.2	37002.2	0.18	-292.2	-67231.3	0.33					
					SLE Rare	2165.4			0.0			0.0	3.5	134.6	34.4	
					SLE Freq.	1730.6			0.0			0.0	2.8	107.6	27.5	OK
					SLE Q.P.	1707.9			0.0			0.0	2.8	106.2	27.1	OK
16	5.22	12.57	15.71			6080.2	34681.2	0.18	-15165.2	-42344.0	0.26					
					SLE Rare	0.0			-5423.4			12.2	0.0	139.1	500.9	
					SLE Freq.	0.0			-4306.7			9.7	0.0	110.5	397.8	OK
					SLE Q.P.	0.0			-4246.3			9.5	0.0	108.9	392.2	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
16	0.60	12.57	15.71			6523.1	34681.2	0.18	-13985.7	-42344.0	0.26					
					SLE Rare	0.0			-4303.6			9.7	0.0	110.4	397.5	
					SLE Freq.	0.0			-3431.5			7.7	0.0	88.0	317.0	OK
					SLE Q.P.	0.0			-3383.6			7.6	0.0	86.8	312.5	OK
Camp.	3.00	9.30	21.57			4469.4	25882.0	0.15	-0.0	-57067.3	0.31					
					SLE Rare	3080.7			0.0			0.0	5.9	304.7	53.2	
					SLE Freq.	2468.3			0.0			0.0	4.7	244.2	42.6	OK
					SLE Q.P.	2435.0			0.0			0.0	4.7	240.9	42.0	OK
17	5.40	12.57	15.71			5236.4	34681.2	0.18	-15779.2	-42344.0	0.26					
					SLE Rare	0.0			-6088.1			13.7	0.0	156.1	562.3	
					SLE Freq.	0.0			-5069.5			11.4	0.0	130.0	468.3	OK
					SLE Q.P.	0.0			-4995.2			11.2	0.0	128.1	461.4	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
17	0.25	12.57	15.71			4539.9	34681.2	0.18	-12989.4	-42344.0	0.26					
					SLE Rare	0.0			-5324.8			12.0	0.0	136.6	491.8	
					SLE Freq.	0.0			-4402.8			9.9	0.0	112.9	406.7	OK
					SLE Q.P.	0.0			-4333.3			9.7	0.0	111.1	400.3	OK
Camp.	2.85	12.57	15.71			10547.9	34681.2	0.18	-306.7	-42344.0	0.26					
					SLE Rare	6003.7			0.0			0.0	10.6	678.4	106.1	
					SLE Freq.	4823.4			0.0			0.0	8.5	545.1	85.3	OK
					SLE Q.P.	4769.8			0.0			0.0	8.5	539.0	84.3	OK
18	5.45	12.57	15.71			8101.1	34681.2	0.18	-5417.0	-42344.0	0.26					
					SLE Rare	1298.7			0.0			0.0	2.3	146.8	23.0	
					SLE Freq.	1172.4			0.0			0.0	2.1	132.5	20.7	OK
					SLE Q.P.	1160.2			0.0			0.0	2.1	131.1	20.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
							Trave di fondazione 14 15 Sez. 1 a Tr 90x80x50x30 [cm] F1				
0.15	4.56	4.41	1.00	10100.2	14785.8	144585.0	26765.4	2651.9	29600.8	5721.1	ø 8 4br. 20.0'
							Trave di fondazione 15 16 Sez. 1 a Tr 90x80x50x30 [cm] F1				
0.00	5.22	5.22	1.00	9252.4	14785.8	144585.0	26765.4	685.8	29600.8	5721.1	ø 8 4br. 20.0'
							Trave di fondazione 16 17 Sez. 1 a Tr 90x80x50x30 [cm] F1				
0.96	5.27	4.31	1.00	9588.1	13503.8	144585.0	26765.4	854.2	29600.8	5721.1	ø 8 4br. 20.0'
							Trave di fondazione 17 18 Sez. 1 a Tr 90x80x50x30 [cm] F1				
0.30	5.45	5.15	1.00	10708.2	14785.8	144585.0	26765.4	3257.9	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 4 Nodi 1 8 14***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
1	0.60	12.57	15.71			13766.5	34681.2	0.18	-12739.2	-42344.0	0.26					
					SLE Rare	445.8			0.0			0.0	0.8	50.4	7.9	
					SLE Freq.	419.1			0.0			0.0	0.7	47.4	7.4	OK
					SLE Q.P.	414.3			0.0			0.0	0.7	46.8	7.3	OK
Camp.	1.93	12.57	15.71			10736.5	34681.2	0.18	-4193.2	-42344.0	0.26					
					SLE Rare	3794.6			0.0			0.0	6.7	428.8	67.1	
					SLE Freq.	2940.7			0.0			0.0	5.2	332.3	52.0	OK
					SLE Q.P.	2912.0			0.0			0.0	5.2	329.1	51.5	OK
8	3.25	12.57	15.71			3922.6	34681.2	0.18	-6560.8	-42344.0	0.26					
					SLE Rare	0.0			-1338.0			3.0	0.0	34.3	123.6	
					SLE Freq.	0.0			-1227.0			2.8	0.0	31.5	113.3	OK
					SLE Q.P.	0.0			-1199.2			2.7	0.0	30.8	110.8	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
8	0.00	12.57	15.71			14563.1	34681.2	0.18	-15311.6	-42344.0	0.26					
					SLE Rare	0.0			-441.0			1.0	0.0	11.3	40.7	
					SLE Freq.	0.0			-360.4			0.8	0.0	9.2	33.3	OK

					SLE Q.P.	0.0			-340.2			0.8	0.0	8.7	31.4	OK
Camp.	2.27	12.57	15.71			10245.5	34681.2	0.18	-315.5	-42344.0	0.26					
					SLE Rare	6221.5			0.0			0.0	11.0	703.1	110.0	
					SLE Freq.	4900.4			0.0			0.0	8.7	553.8	86.6	OK
					SLE Q.P.	4849.1			0.0			0.0	8.6	548.0	85.7	OK
14	4.55	12.57	15.71			12852.5	34681.2	0.18	-14760.5	-42344.0	0.26					
					SLE Rare	0.0			-1907.6			4.3	0.0	48.9	176.2	
					SLE Freq.	0.0			-1343.2			3.0	0.0	34.4	124.1	OK
					SLE Q.P.	0.0			-1325.6			3.0	0.0	34.0	122.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 1 8 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.91	2.94	2.04	1.00	10134.0	14785.8	144585.0	26765.4	3042.5	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 8 14 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	4.18	4.18	1.00	11476.0	14785.8	144585.0	26765.4	1662.6	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 5 Nodi 3 9 15***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
3	0.30	12.57	15.71			6822.2	34681.2	0.18	-6992.8	-42344.0	0.26					
					SLE Rare	14.5			-1334.2			3.0	0.0	34.2	123.2	
					SLE Freq.	13.3			-862.2			1.9	0.0	22.1	79.6	OK
					SLE Q.P.	13.0			-852.5			1.9	0.0	21.9	78.7	OK
Camp.	1.77	12.57	15.71			11062.6	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	7159.1			0.0			0.0	12.7	809.0	126.5	
					SLE Freq.	5321.9			0.0			0.0	9.4	601.4	94.1	OK
					SLE Q.P.	5258.8			0.0			0.0	9.3	594.3	93.0	OK
9	3.25	12.57	15.71			10347.0	34681.2	0.18	-1810.4	-42344.0	0.26					
					SLE Rare	6280.2			0.0			0.0	11.1	709.7	111.0	
					SLE Freq.	3739.0			0.0			0.0	6.6	422.5	66.1	OK
					SLE Q.P.	3709.2			0.0			0.0	6.6	419.2	65.6	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
9	0.00	12.57	15.71			15156.0	34681.2	0.18	-11936.0	-42344.0	0.26					
					SLE Rare	3619.9			0.0			0.0	6.4	409.1	64.0	
					SLE Freq.	1320.0			0.0			0.0	2.3	149.2	23.3	OK
					SLE Q.P.	1309.0			0.0			0.0	2.3	147.9	23.1	OK
Camp.	2.42	12.57	15.71			14767.6	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	9942.1			0.0			0.0	17.6	1123.5	175.7	
					SLE Freq.	8368.0			0.0			0.0	14.8	945.6	147.9	OK
					SLE Q.P.	8299.7			0.0			0.0	14.7	937.9	146.7	OK
15	4.85	12.57	15.71			8233.3	34681.2	0.18	-8317.8	-42344.0	0.26					
					SLE Rare	0.0			-1192.4			2.7	0.0	30.6	110.1	
					SLE Freq.	0.0			-680.3			1.5	0.0	17.4	62.8	OK
					SLE Q.P.	0.0			-671.0			1.5	0.0	17.2	62.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 3 9 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.39	2.91	2.52	1.00	12443.6	14785.8	144585.0	26765.4	2587.0	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 9 15 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	4.75	4.75	1.00	12584.4	14785.8	144585.0	26765.4	957.4	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 6 Nodi 4 10 16***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 2 Rett. 30x80 [cm] F2_30x80																
4	0.30	12.57	12.57			3792.0	35182.6	0.08	-5373.0	-35182.6	0.08					
					SLE Rare	0.0			-1794.3			5.6	0.0	64.8	207.6	
					SLE Freq.	0.0			-1051.7			3.3	0.0	38.0	121.7	OK
					SLE Q.P.	0.0			-1033.3			3.2	0.0	37.3	119.6	OK
Camp.	1.77	12.57	12.57			5907.6	35182.6	0.08	0.0	-35182.6	0.08					
					SLE Rare	3595.9			0.0			0.0	11.1	416.1	129.8	
					SLE Freq.	2494.1			0.0			0.0	7.7	288.6	90.0	OK
					SLE Q.P.	2464.3			0.0			0.0	7.6	285.2	89.0	OK
10	3.25	12.57	12.57			6269.8	35182.6	0.08	-1678.9	-35182.6	0.08					
					SLE Rare	4021.9			0.0			0.0	12.5	465.4	145.2	
					SLE Freq.	1808.3			0.0			0.0	5.6	209.3	65.3	OK
					SLE Q.P.	1779.1			0.0			0.0	5.5	205.9	64.2	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
10	0.00	12.57	12.57			12914.0	34648.1	0.18	-13522.8	-34156.9	0.23					
					SLE Rare	1175.5			-830.3			2.0	2.1	133.0	95.1	
					SLE Freq.	0.0			-812.5			2.0	0.0	21.8	93.1	OK
					SLE Q.P.	0.0			-808.0			2.0	0.0	21.7	92.6	OK
Camp.	2.42	12.57	15.71			15220.5	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	10410.5			0.0			0.0	18.5	1176.4	184.0	
					SLE Freq.	8785.5			0.0			0.0	15.6	992.8	155.3	OK
					SLE Q.P.	8706.5			0.0			0.0	15.4	983.9	153.9	OK
16	4.85	12.57	15.71			8067.6	34681.2	0.18	-5544.8	-42344.0	0.26					
					SLE Rare	694.3			-224.4			0.5	1.2	78.5	20.7	
					SLE Freq.	679.1			-136.3			0.3	1.2	76.7	12.6	OK
					SLE Q.P.	675.3			-134.7			0.3	1.2	76.3	12.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 4 10 Sez. 2 Rett. 30x80 [cm] F2_30x80											
0.39	2.91	2.52	1.00	7224.0	10518.3	86751.0	13382.7	433.5	11079.7	2594.3	ø 8 2br. 20.0'
Trave di fondazione 10 16 Sez. 1 a Tr 90x80x50x30 [cm] F1											

0.00	4.75	4.75		1.00	12253.6	13503.8	144585.0	26765.4	995.3	29600.8	5721.1	ø 8 4br. 20.0'								

Travata: ***Travata 7 Nodi 5 12 17***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
5	0.30	12.57	15.71			7819.2	34681.2	0.18	-6229.2	-42344.0	0.26					
					SLE Rare	126.1			-945.2			2.1	0.2	24.2	87.3	
					SLE Freq.	123.2			-509.9			1.1	0.2	13.9	47.1	OK
					SLE Q.P.	122.5			-502.1			1.1	0.2	13.8	46.4	OK
Camp.	1.77	12.57	15.71			14329.9	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	9481.5			0.0			0.0	16.8	1071.4	167.6	
					SLE Freq.	7467.1			0.0			0.0	13.2	843.8	132.0	OK
					SLE Q.P.	7398.2			0.0			0.0	13.1	836.0	130.8	OK
12	3.25	12.57	15.71			11715.8	34681.2	0.18	-1771.3	-42344.0	0.26					
					SLE Rare	6487.3			0.0			0.0	11.5	733.1	114.7	
					SLE Freq.	3742.5			0.0			0.0	6.6	422.9	66.2	OK
					SLE Q.P.	3710.0			0.0			0.0	6.6	419.2	65.6	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
12	0.00	12.57	15.71			15764.6	34681.2	0.18	-12712.9	-42344.0	0.26					
					SLE Rare	3699.0			0.0			0.0	6.6	418.0	65.4	
					SLE Freq.	1311.0			0.0			0.0	2.3	148.2	23.2	OK
					SLE Q.P.	1302.6			0.0			0.0	2.3	147.2	23.0	OK
Camp.	2.42	12.57	15.71			14590.7	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	9821.4			0.0			0.0	17.4	1109.8	173.6	
					SLE Freq.	8179.8			0.0			0.0	14.5	924.3	144.6	OK
					SLE Q.P.	8109.6			0.0			0.0	14.4	916.4	143.4	OK
17	4.85	12.57	15.71			8539.1	34681.2	0.18	-9113.2	-42344.0	0.26					
					SLE Rare	0.0			-1371.5			3.1	0.0	35.2	126.7	
					SLE Freq.	0.0			-869.3			2.0	0.0	22.3	80.3	OK
					SLE Q.P.	0.0			-860.7			1.9	0.0	22.1	79.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 5 12 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.39	2.91	2.52	1.00	15819.1	14785.8	144585.0	26765.4	1851.0	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 12 17 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	4.75	4.75	1.00	12661.1	14785.8	144585.0	26765.4	963.4	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 8 Nodi 7 13 18***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
7	0.30	12.57	15.71			8643.3	34681.2	0.18	-6197.4	-42344.0	0.26					
					SLE Rare	805.4			0.0			0.0	1.4	91.0	14.2	
					SLE Freq.	695.6			0.0			0.0	1.2	78.6	12.3	OK
					SLE Q.P.	688.2			0.0			0.0	1.2	77.8	12.2	OK
Camp.	1.77	12.57	15.71			8393.6	34681.2	0.18	0.0	-42344.0	0.26					
					SLE Rare	5161.2			0.0			0.0	9.1	583.2	91.2	
					SLE Freq.	4012.4			0.0			0.0	7.1	453.4	70.9	OK
					SLE Q.P.	3973.4			0.0			0.0	7.0	449.0	70.2	OK
13	3.25	12.57	15.71			9970.0	34681.2	0.18	-9964.7	-42344.0	0.26					
					SLE Rare	216.6			-163.5			0.4	0.4	24.5	15.1	
					SLE Freq.	86.3			-99.8			0.2	0.2	9.7	9.2	OK
					SLE Q.P.	86.3			-83.8			0.2	0.2	9.7	7.7	OK
Trave di fondazione Sez. 1 a Tr 90x80x50x30 [cm] F1																
13	0.00	12.57	15.71			14987.0	34681.2	0.18	-14358.8	-42344.0	0.26					
					SLE Rare	674.3			0.0			0.0	1.2	76.2	11.9	
					SLE Freq.	285.6			0.0			0.0	0.5	32.3	5.0	OK
					SLE Q.P.	285.6			0.0			0.0	0.5	32.3	5.0	OK
Camp.	2.27	12.57	15.71			11570.4	34681.2	0.18	-790.8	-42344.0	0.26					
					SLE Rare	6606.2			0.0			0.0	11.7	746.5	116.8	
					SLE Freq.	5197.1			0.0			0.0	9.2	587.3	91.9	OK
					SLE Q.P.	5142.7			0.0			0.0	9.1	581.1	90.9	OK
18	4.55	12.57	15.71			15039.3	34681.2	0.18	-17449.7	-42344.0	0.26					
					SLE Rare	0.0			-1837.7			4.1	0.0	47.1	169.7	
					SLE Freq.	0.0			-1341.3			3.0	0.0	34.4	123.9	OK
					SLE Q.P.	0.0			-1323.7			3.0	0.0	33.9	122.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave di fondazione 7 13 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.39	2.91	2.52	1.00	10357.6	14785.8	144585.0	26765.4	3299.9	29600.8	5721.1	ø 8 4br. 20.0'
Trave di fondazione 13 18 Sez. 1 a Tr 90x80x50x30 [cm] F1											
0.00	4.18	4.18	1.00	11033.9	14785.8	144585.0	26765.4	2073.1	29600.8	5721.1	ø 8 4br. 20.0'

Travata: ***Travata 101 Nodi 101 103 104 105 107***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
101	0.15	9.42	9.42			6505.3	19158.6	0.11	-3719.4	-19158.6	0.11					
					SLE Rare	2850.3			0.0			0.0	16.7	605.0	175.9	
					SLE Freq.	1865.6			0.0			0.0	10.9	396.0	115.2	OK
					SLE Q.P.	1833.0			0.0			0.0	10.7	389.1	113.1	OK
Camp.	2.54	9.42	9.42	4787.1	9149.5	0.0	19158.6	0.11	-9844.9	-19158.6	0.11					
					SLE Rare	0.0			-6692.4			39.2	0.0	413.1	1420.6	
					SLE Freq.	0.0			-5295.8			31.0	0.0	326.9	1124.1	OK
					SLE Q.P.	0.0			-5225.9			30.6	0.0	322.6	1109.3	OK

103	4.93	9.42	9.42			11003.9	19158.6	0.11	-1692.3	-19158.6	0.11						
					SLE Rare	6910.7			0.0			0.0	40.5	1466.9	426.6		
					SLE Freq.	5334.8			0.0			0.0	31.2	1132.4	329.3	OK	
					SLE Q.P.	5263.3			0.0			0.0	30.8	1117.2	324.9	OK	
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																	
103	0.00	9.42	9.42			15118.9	19158.6	0.11	-1664.3	-19158.6	0.11						
					SLE Rare	9456.7			0.0			0.0	55.4	2007.4	583.8		
					SLE Freq.	7260.7			0.0			0.0	42.5	1541.2	448.2	OK	
					SLE Q.P.	7156.4			0.0			0.0	41.9	1519.1	441.8	OK	
Camp.	2.46	7.59	14.19	4787.1	8152.5	0.0	15532.8	0.09	-8126.4	-28470.1	0.15						
					SLE Rare	0.0			-5519.4			29.5	0.0	269.2	652.0		
					SLE Freq.	0.0			-4250.3			22.7	0.0	207.3	502.1	OK	
					SLE Q.P.	0.0			-4192.2			22.4	0.0	204.5	495.2	OK	
104	4.92	9.42	9.42			10472.6	19158.6	0.11	-4002.7	-19158.6	0.11						
					SLE Rare	4550.6			0.0			0.0	26.6	965.9	280.9		
					SLE Freq.	3556.7			0.0			0.0	20.8	755.0	219.6	OK	
					SLE Q.P.	3513.8			0.0			0.0	20.6	745.9	216.9	OK	
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																	
104	0.30	9.42	9.42			11197.7	19158.6	0.11	-3582.2	-19158.6	0.11						
					SLE Rare	5560.3			0.0			0.0	32.6	1180.3	343.2		
					SLE Freq.	4303.7			0.0			0.0	25.2	913.5	265.7	OK	
					SLE Q.P.	4247.5			0.0			0.0	24.9	901.6	262.2	OK	
Camp.	2.85	9.42	9.42	4787.1	9892.0	0.0	19158.6	0.11	-9889.5	-19158.6	0.11						
					SLE Rare	0.0			-6717.0			39.3	0.0	414.6	1425.8		
					SLE Freq.	0.0			-5172.5			30.3	0.0	319.3	1098.0	OK	
					SLE Q.P.	0.0			-5101.7			29.9	0.0	314.9	1082.9	OK	
105	5.40	9.42	9.42			13381.6	19158.6	0.11	-1756.9	-19158.6	0.11						
					SLE Rare	8356.5			0.0			0.0	48.9	1773.8	515.8		
					SLE Freq.	6426.1			0.0			0.0	37.6	1364.1	396.7	OK	
					SLE Q.P.	6336.9			0.0			0.0	37.1	1345.1	391.2	OK	
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																	
105	0.25	9.42	9.42			12284.3	19158.6	0.11	-1665.3	-19158.6	0.11						
					SLE Rare	7569.8			0.0			0.0	44.3	1606.8	467.3		
					SLE Freq.	5893.5			0.0			0.0	34.5	1251.0	363.8	OK	
					SLE Q.P.	5818.4			0.0			0.0	34.1	1235.1	359.2	OK	
Camp.	2.70	9.42	9.42	4787.1	9382.6	0.0	19158.6	0.11	-9380.2	-19158.6	0.11						
					SLE Rare	0.0			-6371.0			37.3	0.0	393.3	1352.4		
					SLE Freq.	0.0			-4906.1			28.7	0.0	302.9	1041.4	OK	
					SLE Q.P.	0.0			-4839.0			28.3	0.0	298.7	1027.2	OK	
107	5.15	9.42	9.42			11134.1	19158.6	0.11	-5811.2	-19158.6	0.11						
					SLE Rare	4244.5			0.0			0.0	24.9	901.0	262.0		
					SLE Freq.	3064.0			0.0			0.0	17.9	650.4	189.1	OK	
					SLE Q.P.	3014.4			0.0			0.0	17.6	639.9	186.1	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 101 103 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.15	4.56	4.41	1.00	15275.5	8225.5	63801.0	19684.6	3636.1	7700.0	3933.8	ø 8 2br. 10.0'
Trave 103 104 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	4.82	4.82	1.00	15012.3	8225.5	63801.0	24605.8	4354.8	7700.0	4917.2	ø 8 2br. 8.0'
Trave 104 105 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.40	5.26	4.86	1.00	14870.4	8225.5	63801.0	19684.6	3620.3	7700.0	3933.8	ø 8 2br. 10.0'
Trave 105 107 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.30	4.91	4.62	1.00	15022.5	8225.5	63801.0	24605.8	4089.9	7700.0	4917.2	ø 8 2br. 8.0'

Travata: ***Travata 102 Nodi 108 109 110 112 113***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
108	0.15	9.42	9.42			6030.1	19158.6	0.11	-3238.0	-19158.6	0.11					
					SLE Rare	3020.0			0.0			0.0	17.7	641.1	186.4	
					SLE Freq.	2258.5			0.0			0.0	13.2	479.4	139.4	OK
					SLE Q.P.	2217.2			0.0			0.0	13.0	470.6	136.9	OK
Camp.	2.69	9.42	9.42	5816.2	11116.6	0.0	19158.6	0.11	-11505.7	-19158.6	0.11					
					SLE Rare	0.0			-7795.4			45.6	0.0	481.2	1654.7	
					SLE Freq.	0.0			-7441.3			43.6	0.0	459.4	1579.6	OK
					SLE Q.P.	0.0			-7352.9			43.1	0.0	453.9	1560.8	OK
109	5.23	9.42	9.42			13923.8	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	9443.3			0.0			0.0	55.3	2004.5	582.9	
					SLE Freq.	8775.8			0.0			0.0	51.4	1862.8	541.7	OK
					SLE Q.P.	8673.1			0.0			0.0	50.8	1841.0	535.4	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
109	0.00	9.42	9.42			16363.5	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	11108.4			0.0			0.0	65.0	2358.0	685.7	
					SLE Freq.	10306.5			0.0			0.0	60.3	2187.8	636.2	OK
					SLE Q.P.	10182.8			0.0			0.0	59.6	2161.5	628.6	OK
Camp.	2.61	8.10	15.16	5816.2	9905.2	0.0	16545.1	0.10	-9905.2	-30364.5	0.15					
					SLE Rare	0.0			-6705.7			34.7	0.0	340.8	765.7	
					SLE Freq.	0.0			-6207.5			32.1	0.0	315.5	708.8	OK
					SLE Q.P.	0.0			-6130.9			31.7	0.0	311.6	700.0	OK
110	5.22	9.42	9.42			12251.6	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	8257.7			0.0			0.0	48.3	1752.9	509.7	
					SLE Freq.	7635.9			0.0			0.0	44.7	1620.9	471.4	OK
					SLE Q.P.	7540.1			0.0			0.0	44.1	1600.5	465.4	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
110	0.30	9.42	9.42			10038.8	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	6766.2			0.0			0.0	39.6	1436.3	417.7	
					SLE Freq.	6263.9			0.0			0.0	36.7	1329.6	386.7	OK
					SLE Q.P.	6184.5			0.0			0.0	36.2	1312.8	381.8	OK
Camp.	2.95	9.42	9.42	5816.2	12018.7	0.0	19158.6	0.11	-12012.0	-19158.6	0.11					
					SLE Rare	0.0			-8131.9			47.6	0.0	502.0	1726.2	

					SLE Freq.	0.0			-7527.8			44.1	0.0	464.7	1597.9	OK
					SLE Q.P.	0.0			-7434.9			43.5	0.0	459.0	1578.2	OK
112	5.60	9.42	9.42			16264.7	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	11033.6			0.0			0.0	64.6	2342.1	681.1	
					SLE Freq.	10257.4			0.0			0.0	60.1	2177.3	633.2	OK
					SLE Q.P.	10136.2			0.0			0.0	59.3	2151.6	625.7	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
112	0.15	9.42	9.42			16582.5	19158.6	0.11	0.0	-19158.6	0.11					
					SLE Rare	11237.9			0.0			0.0	65.8	2385.5	693.7	
					SLE Freq.	10459.7			0.0			0.0	61.2	2220.3	645.7	OK
					SLE Q.P.	10338.4			0.0			0.0	60.5	2194.5	638.2	OK
Camp.	2.80	9.42	9.42	5816.3	11399.9	0.0	19158.6	0.11	-11399.9	-19158.6	0.11					
					SLE Rare	0.0			-7717.5			45.2	0.0	476.4	1638.2	
					SLE Freq.	0.0			-7240.2			42.4	0.0	446.9	1536.9	OK
					SLE Q.P.	0.0			-7153.8			41.9	0.0	441.6	1518.5	OK
113	5.45	9.42	9.42			6241.5	19158.6	0.11	-3378.0	-19158.6	0.11					
					SLE Rare	3068.8			0.0			0.0	18.0	651.4	189.4	
					SLE Freq.	2280.3			0.0			0.0	13.4	484.0	140.8	OK
					SLE Q.P.	2237.7			0.0			0.0	13.1	475.0	138.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 108 109 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.15	0.74	0.59	1.00	17711.0	8225.5	63801.0	24605.8	183.7	7700.0	4917.2	ø 8 2br. 8.0'
0.74	1.49	0.75	1.00	15508.5	8225.5	63801.0	15747.7	183.7	7700.0	3147.0	ø 8 2br. 12.5'
1.49	3.79	2.30	1.00	12696.4	8225.5	63801.0	15747.7	183.7	7700.0	3147.0	ø 8 2br. 12.5'
3.79	4.54	0.75	1.00	15328.5	8225.5	63801.0	15747.7	183.7	7700.0	3147.0	ø 8 2br. 12.5'
4.54	5.13	0.59	1.00	17531.0	8225.5	63801.0	24605.8	183.7	7700.0	4917.2	ø 8 2br. 8.0'
Trave 109 110 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	0.60	0.60	1.00	17470.5	8225.5	63801.0	19684.6	140.1	7700.0	3933.8	ø 8 2br. 10.0'
0.60	1.33	0.73	1.00	15310.5	8225.5	63801.0	15747.7	140.1	7700.0	3147.0	ø 8 2br. 12.5'
1.33	3.89	2.57	1.00	12696.4	8225.5	63801.0	13123.1	140.1	7700.0	2622.5	ø 8 2br. 15.0'
3.89	4.62	0.73	1.00	15310.5	8225.5	63801.0	15747.7	140.1	7700.0	3147.0	ø 8 2br. 12.5'
4.62	5.22	0.60	1.00	17470.5	8225.5	63801.0	19684.6	140.1	7700.0	3933.8	ø 8 2br. 10.0'
Trave 110 112 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.40	0.99	0.59	1.00	17582.6	8225.5	63801.0	19684.6	126.7	7700.0	3933.8	ø 8 2br. 10.0'
0.99	1.75	0.77	1.00	15381.9	8225.5	63801.0	15747.7	126.7	7700.0	3147.0	ø 8 2br. 12.5'
1.75	4.24	2.49	1.00	12696.4	8225.5	63801.0	13123.1	126.7	7700.0	2622.5	ø 8 2br. 15.0'
4.24	5.01	0.77	1.00	15561.9	8225.5	63801.0	15747.7	126.7	7700.0	3147.0	ø 8 2br. 12.5'
5.01	5.60	0.59	1.00	17762.6	8225.5	63801.0	19684.6	126.7	7700.0	3933.8	ø 8 2br. 10.0'
Trave 112 113 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.15	0.75	0.60	1.00	17679.0	8225.5	63801.0	19684.6	131.7	7700.0	3933.8	ø 8 2br. 10.0'
0.75	1.48	0.73	1.00	15332.6	8225.5	63801.0	15747.7	131.7	7700.0	3147.0	ø 8 2br. 12.5'
1.48	4.12	2.64	1.00	12696.4	8225.5	63801.0	15747.7	131.7	7700.0	3147.0	ø 8 2br. 12.5'
4.12	4.85	0.73	1.00	15332.6	8225.5	63801.0	15747.7	131.7	7700.0	3147.0	ø 8 2br. 12.5'
4.85	5.45	0.60	1.00	17492.6	8225.5	63801.0	19684.6	131.7	7700.0	3933.8	ø 8 2br. 10.0'

Travata: ***Travata 103 Nodi 114 115 116 117 118***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
114	0.15	9.42	9.42			6246.0	19158.6	0.11	-4539.0	-19158.6	0.11					
					SLE Rare	2183.4			0.0			0.0	12.8	463.5	134.8	
					SLE Freq.	1348.0			0.0			0.0	7.9	286.1	83.2	OK
					SLE Q.P.	1319.7			0.0			0.0	7.7	280.1	81.5	OK
Camp.	2.54	9.42	9.42	5178.9	9898.5	0.0	19158.6	0.11	-10329.7	-19158.6	0.11					
					SLE Rare	0.0			-7011.9			41.1	0.0	432.8	1488.4	
					SLE Freq.	0.0			-5826.4			34.1	0.0	359.7	1236.8	OK
					SLE Q.P.	0.0			-5751.0			33.7	0.0	355.0	1220.8	OK
115	4.93	9.42	9.42			13401.9	19158.6	0.11	-610.4	-19158.6	0.11					
					SLE Rare	8803.0			0.0			0.0	51.5	1868.6	543.4	
					SLE Freq.	7240.2			0.0			0.0	42.4	1536.9	446.9	OK
					SLE Q.P.	7150.6			0.0			0.0	41.9	1517.9	441.4	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
115	0.00	9.42	9.42			15936.4	19158.6	0.11	-2181.4	-19158.6	0.11					
					SLE Rare	9158.1			0.0			0.0	53.6	1944.0	565.3	
					SLE Freq.	7482.5			0.0			0.0	43.8	1588.3	461.9	OK
					SLE Q.P.	7385.5			0.0			0.0	43.2	1567.7	455.9	OK
Camp.	2.61	8.10	15.33	5178.9	8819.9	0.0	16545.1	0.10	-8819.9	-30693.6	0.15					
					SLE Rare	0.0			-5982.1			30.8	0.0	303.5	690.2	
					SLE Freq.	0.0			-4848.9			25.0	0.0	246.0	559.5	OK
					SLE Q.P.	0.0			-4784.6			24.7	0.0	242.7	552.1	OK
116	5.22	9.42	9.42			14545.4	19158.6	0.11	-2840.2	-19158.6	0.11					
					SLE Rare	7903.7			0.0			0.0	46.3	1677.7	487.9	
					SLE Freq.	6384.1			0.0			0.0	37.4	1355.2	394.1	OK
					SLE Q.P.	6298.8			0.0			0.0	36.9	1337.0	388.8	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
116	0.60	9.42	9.42			12867.3	19158.6	0.11	-2921.4	-19158.6	0.11					
					SLE Rare	6901.5			0.0			0.0	40.4	1465.0	426.0	
					SLE Freq.	5570.3			0.0			0.0	32.6	1182.4	343.9	OK
					SLE Q.P.	5495.7			0.0			0.0	32.2	1166.6	339.3	OK
Camp.	3.00	9.42	9.42	5178.9	10701.8	0.0	19158.6	0.11	-10701.8	-19158.6	0.11					
					SLE Rare	0.0			-7258.5			42.5	0.0	448.1	1540.8	
					SLE Freq.	0.0			-5883.6			34.4	0.0	363.2	1248.9	OK
					SLE Q.P.	0.0			-5805.6			34.0	0.0	358.4	1232.3	OK
117	5.40	9.42	9.42			14672.2	19158.6	0.11	-1850.1	-19158.6	0.11					
					SLE Rare	8693.5			0.0			0.0	50.9	1845.4	536.6	
					SLE Freq.	7100.2			0.0			0.0	41.6	1507.2	438.3	OK
					SLE Q.P.	7008.2			0.0			0.0	41.0	1487.6	432.6	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
117	0.25	9.42	9.42			14253.6	19158.6	0.11	-376.7	-19158.6	0.11					

					SLE Rare	9505.3			0.0			0.0	55.7	2017.7	586.8	
					SLE Freq.	7806.4			0.0			0.0	45.7	1657.1	481.9	OK
					SLE Q.P.	7709.0			0.0			0.0	45.1	1636.4	475.9	OK
Camp.	2.85	9.42	9.42	5178.9	10150.7	0.0	19158.6	0.11	-10318.6	-19158.6	0.11					
					SLE Rare	0.0			-7004.6			41.0	0.0	432.4	1486.9	
					SLE Freq.	0.0			-5819.3			34.1	0.0	359.2	1235.3	OK
					SLE Q.P.	0.0			-5744.0			33.6	0.0	354.6	1219.3	OK
118	5.45	9.42	9.42			6495.4	19158.6	0.11	-4659.0	-19158.6	0.11					
					SLE Rare	2245.6			0.0			0.0	13.1	476.7	138.6	
					SLE Freq.	1404.3			0.0			0.0	8.2	298.1	86.7	OK
					SLE Q.P.	1375.5			0.0			0.0	8.1	292.0	84.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 114 115 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.15	0.70	0.55	1.00	16164.6	8225.5	63801.0	24605.8	2367.6	7700.0	4917.2	ø 8 2br. 8.0'
0.70	1.20	0.50	1.00	14337.9	8225.5	63801.0	15747.7	2367.6	7700.0	3147.0	ø 8 2br. 12.5'
1.20	3.51	2.31	1.00	12696.4	8225.5	63801.0	15747.7	2367.6	7700.0	3147.0	ø 8 2br. 12.5'
3.51	4.01	0.50	1.00	14197.4	8225.5	63801.0	15747.7	2367.6	7700.0	3147.0	ø 8 2br. 12.5'
4.01	4.56	0.55	1.00	16024.1	8225.5	63801.0	24605.8	2367.6	7700.0	4917.2	ø 8 2br. 8.0'
Trave 115 116 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	5.22	5.22	1.00	15407.3	8225.5	63801.0	15747.7	2708.1	7700.0	3147.0	ø 8 2br. 12.5'
Trave 116 117 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.96	1.50	0.54	1.00	16296.4	8225.5	63801.0	19684.6	2241.0	7700.0	3933.8	ø 8 2br. 10.0'
1.50	1.99	0.49	1.00	14417.6	8225.5	63801.0	15747.7	2241.0	7700.0	3147.0	ø 8 2br. 12.5'
1.99	4.23	2.24	1.00	12696.4	8225.5	63801.0	13123.1	2241.0	7700.0	2622.5	ø 8 2br. 15.0'
4.23	4.73	0.49	1.00	14417.6	8225.5	63801.0	15747.7	2241.0	7700.0	3147.0	ø 8 2br. 12.5'
4.73	5.27	0.54	1.00	16296.4	8225.5	63801.0	19684.6	2241.0	7700.0	3933.8	ø 8 2br. 10.0'
Trave 117 118 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.30	5.45	5.15	1.00	15627.2	8225.5	63801.0	15747.7	2743.0	7700.0	3147.0	ø 8 2br. 12.5'

Travata: ***Travata 104 Nodi 101 108 114***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
101	0.55	9.42	9.42			10069.9	19158.6	0.11	-8637.1	-19158.6	0.11					
					SLE Rare	1516.9			0.0			0.0	8.9	322.0	93.6	
					SLE Freq.	738.2			0.0			0.0	4.3	156.7	45.6	OK
					SLE Q.P.	716.4			0.0			0.0	4.2	152.1	44.2	OK
Camp.	1.90	9.42	9.42	2185.5	2024.7	3347.7	19158.6	0.11	-3965.5	-19158.6	0.11					
					SLE Rare	0.0			-1405.4			8.2	0.0	86.8	298.3	
					SLE Freq.	0.0			-944.0			5.5	0.0	58.3	200.4	OK
					SLE Q.P.	0.0			-932.9			5.5	0.0	57.6	198.0	OK
108	3.25	9.42	9.42			8781.2	19158.6	0.11	-5264.7	-19158.6	0.11					
					SLE Rare	2430.7			0.0			0.0	14.2	516.0	150.0	
					SLE Freq.	1771.6			0.0			0.0	10.4	376.0	109.4	OK
					SLE Q.P.	1758.2			0.0			0.0	10.3	373.2	108.5	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
108	0.00	9.42	9.42			12472.0	19158.6	0.11	-5314.9	-19158.6	0.11					
					SLE Rare	5029.0			0.0			0.0	29.4	1067.5	310.4	
					SLE Freq.	3613.9			0.0			0.0	21.2	767.1	223.1	OK
					SLE Q.P.	3578.6			0.0			0.0	21.0	759.6	220.9	OK
Camp.	2.27	9.42	9.42	2185.5	3622.8	4.4	19158.6	0.11	-3610.7	-19158.6	0.11					
					SLE Rare	0.0			-2506.3			14.7	0.0	154.7	532.0	
					SLE Freq.	0.0			-1683.5			9.9	0.0	103.9	357.4	OK
					SLE Q.P.	0.0			-1663.7			9.7	0.0	102.7	353.1	OK
114	4.55	9.42	9.42			9777.3	19158.6	0.11	-10153.7	-19158.6	0.11					
					SLE Rare	239.3			-204.4			1.2	1.4	50.8	43.4	
					SLE Freq.	0.0			-218.4			1.3	0.0	13.5	46.4	OK
					SLE Q.P.	0.0			-218.4			1.3	0.0	13.5	46.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 101 108 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.82	2.94	2.11	1.00	17347.8	8225.5	63801.0	19684.6	1401.4	7700.0	3933.8	ø 8 2br. 10.0'
Trave 108 114 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	4.18	4.18	1.00	11856.5	8225.5	63801.0	15747.7	2705.3	7700.0	3147.0	ø 8 2br. 12.5'

Travata: ***Travata 105 Nodi 103 109 115***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
103	0.30	9.42	9.42			5121.6	19158.6	0.11	-3815.6	-19158.6	0.11					
					SLE Rare	2237.5			0.0			0.0	13.1	475.0	138.1	
					SLE Freq.	690.0			0.0			0.0	4.0	146.5	42.6	OK
					SLE Q.P.	653.0			0.0			0.0	3.8	138.6	40.3	OK
Camp.	1.77	9.42	9.42	585.0	541.9	2765.1	19158.6	0.11	-847.2	-19158.6	0.11					
					SLE Rare	1671.0			-416.9			2.4	9.8	354.7	103.2	
					SLE Freq.	838.4			-416.9			2.4	4.9	178.0	88.5	OK
					SLE Q.P.	818.2			-416.9			2.4	4.8	173.7	88.5	OK
109	3.25	9.42	9.42			8780.5	19158.6	0.11	-4132.2	-19158.6	0.11					
					SLE Rare	2445.2			0.0			0.0	14.3	519.0	150.9	
					SLE Freq.	2327.4			0.0			0.0	13.6	494.0	143.7	OK
					SLE Q.P.	2324.1			0.0			0.0	13.6	493.3	143.5	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
109	0.00	9.42	9.42			9526.4	19158.6	0.11	-5333.8	-19158.6	0.11					
					SLE Rare	2103.2			0.0			0.0	12.3	446.4	129.8	
					SLE Freq.	2096.3			0.0			0.0	12.3	445.0	129.4	OK
					SLE Q.P.	2096.3			0.0			0.0	12.3	445.0	129.4	OK

Camp.	2.42	9.42	9.42	585.0	969.7	1717.4	19158.6	0.11	-1847.0	-19158.6	0.11						
				SLE Rare		263.5			-743.2			4.4	1.5	55.9	157.8		
				SLE Freq.		0.0			-743.2			4.4	0.0	45.9	157.8	OK	
				SLE Q.P.		0.0			-743.2			4.4	0.0	45.9	157.8	OK	
115	4.85	9.42	9.42			5482.5	19158.6	0.11	-4861.1	-19158.6	0.11						
				SLE Rare		1175.8			0.0			0.0	6.9	249.6	72.6		
				SLE Freq.		330.9			0.0			0.0	1.9	70.2	20.4	OK	
				SLE Q.P.		310.7			0.0			0.0	1.8	66.0	19.2	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 103 109 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.39	2.91	2.52	1.00	15005.7	8225.5	63801.0	15747.7	529.1	7700.0	3147.0	ø 8 2br. 12.5'
Trave 109 115 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	0.61	0.61	1.00	9849.3	8225.5	63801.0	15747.7	378.7	7700.0	3147.0	ø 8 2br. 12.5'
0.61	4.14	3.53	1.00	9562.2	8225.5	63801.0	13123.1	378.7	7700.0	2622.5	ø 8 2br. 15.0'
4.14	4.75	0.61	1.00	9759.3	8225.5	63801.0	15747.7	378.7	7700.0	3147.0	ø 8 2br. 12.5'

Travata: ***Travata 106 Nodi 104 110 116***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
104	0.30	9.42	9.42			4463.7	19158.6	0.11	-3047.4	-19158.6	0.11					
				SLE Rare		2308.0			0.0			0.0	13.5	489.9	142.5	
				SLE Freq.		744.3			0.0			0.0	4.4	158.0	45.9	OK
				SLE Q.P.		708.1			0.0			0.0	4.1	150.3	43.7	OK
Camp.	1.77	9.42	9.42	585.0	541.9	2918.5	19158.6	0.11	-627.5	-19158.6	0.11					
				SLE Rare		1892.8			-416.9			2.4	11.1	401.8	116.8	
				SLE Freq.		945.7			-416.9			2.4	5.5	200.7	88.5	OK
				SLE Q.P.		922.3			-416.9			2.4	5.4	195.8	88.5	OK
110	3.25	9.42	9.42			8216.6	19158.6	0.11	-3262.1	-19158.6	0.11					
				SLE Rare		2818.3			0.0			0.0	16.5	598.2	174.0	
				SLE Freq.		2487.8			0.0			0.0	14.6	528.1	153.6	OK
				SLE Q.P.		2477.2			0.0			0.0	14.5	525.8	152.9	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
110	0.00	9.42	9.42			8277.4	19158.6	0.11	-4833.7	-19158.6	0.11					
				SLE Rare		1705.4			0.0			0.0	10.0	362.0	105.3	
				SLE Freq.		1721.8			0.0			0.0	10.1	365.5	106.3	OK
				SLE Q.P.		1721.8			0.0			0.0	10.1	365.5	106.3	OK
Camp.	2.42	9.42	9.42	585.0	969.7	1547.4	19158.6	0.11	-1758.8	-19158.6	0.11					
				SLE Rare		335.3			-743.2			4.4	2.0	71.2	157.8	
				SLE Freq.		0.0			-743.2			4.4	0.0	45.9	157.8	OK
				SLE Q.P.		0.0			-743.2			4.4	0.0	45.9	157.8	OK
116	4.85	9.42	9.42			5063.5	19158.6	0.11	-3702.5	-19158.6	0.11					
				SLE Rare		1721.9			0.0			0.0	10.1	365.5	106.3	
				SLE Freq.		707.2			0.0			0.0	4.1	150.1	43.7	OK
				SLE Q.P.		680.5			0.0			0.0	4.0	144.4	42.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 104 110 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.39	2.91	2.52	1.00	13789.4	8225.5	63801.0	15747.7	366.9	7700.0	3147.0	ø 8 2br. 12.5'
Trave 110 116 Sez. 1 Rett. 30x60 [cm] T1_30x60											
0.00	0.61	0.61	1.00	9849.3	8225.5	63801.0	15747.7	325.0	7700.0	3147.0	ø 8 2br. 12.5'
0.61	4.14	3.53	1.00	9562.2	8225.5	63801.0	13123.1	325.0	7700.0	2622.5	ø 8 2br. 15.0'
4.14	4.75	0.61	1.00	9759.3	8225.5	63801.0	15747.7	325.0	7700.0	3147.0	ø 8 2br. 12.5'

Travata: ***Travata 107 Nodi 105 112 117***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
105	0.30	9.42	9.42			5190.7	19158.6	0.11	-3964.7	-19158.6	0.11					
				SLE Rare		2182.2			0.0			0.0	12.8	463.2	134.7	
				SLE Freq.		650.1			0.0			0.0	3.8	138.0	40.1	OK
				SLE Q.P.		613.0			0.0			0.0	3.6	130.1	37.8	OK
Camp.	1.77	9.42	9.42	585.0	541.9	3044.6	19158.6	0.11	-1080.3	-19158.6	0.11					
				SLE Rare		1716.4			-416.9			2.4	10.0	364.3	106.0	
				SLE Freq.		853.9			-416.9			2.4	5.0	181.2	88.5	OK
				SLE Q.P.		833.2			-416.9			2.4	4.9	176.9	88.5	OK
112	3.25	9.42	9.42			9328.3	19158.6	0.11	-4540.0	-19158.6	0.11					
				SLE Rare		2591.3			0.0			0.0	15.2	550.1	160.0	
				SLE Freq.		2398.3			0.0			0.0	14.0	509.1	148.0	OK
				SLE Q.P.		2394.2			0.0			0.0	14.0	508.2	147.8	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
112	0.00	9.42	9.42			10278.3	19158.6	0.11	-5664.5	-19158.6	0.11					
				SLE Rare		2312.5			0.0			0.0	13.5	490.9	142.8	
				SLE Freq.		2306.9			0.0			0.0	13.5	489.7	142.4	OK
				SLE Q.P.		2306.9			0.0			0.0	13.5	489.7	142.4	OK
Camp.	2.42	9.42	9.42	585.0	969.7	1923.8	19158.6	0.11	-1896.8	-19158.6	0.11					
				SLE Rare		335.8			-743.2			4.4	2.0	71.3	157.8	
				SLE Freq.		0.0			-743.2			4.4	0.0	45.9	157.8	OK
				SLE Q.P.		0.0			-743.2			4.4	0.0	45.9	157.8	OK
117	4.85	9.42	9.42			5778.4	19158.6	0.11	-5326.3	-19158.6	0.11					
				SLE Rare		1111.1			0.0			0.0	6.5	235.9	68.6	
				SLE Freq.		246.6			0.0			0.0	1.4	52.3	15.2	OK
				SLE Q.P.		226.0			0.0			0.0	1.3	48.0	14.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe

												Trave 105 112 Sez. 1 Rett. 30x60 [cm] T1_30x60
0.39	2.91	2.52	1.00	15064.0	8225.5	63801.0	15747.7	471.6	7700.0	3147.0	ø 8 2br. 12.5'	
												Trave 112 117 Sez. 1 Rett. 30x60 [cm] T1_30x60
0.00	0.61	0.61	1.00	9849.3	8225.5	63801.0	15747.7	344.7	7700.0	3147.0	ø 8 2br. 12.5'	
0.61	4.14	3.53	1.00	9562.2	8225.5	63801.0	13123.1	344.7	7700.0	2622.5	ø 8 2br. 15.0'	
4.14	4.75	0.61	1.00	9759.3	8225.5	63801.0	15747.7	344.7	7700.0	3147.0	ø 8 2br. 12.5'	

Travata: ***Travata 108 Nodi 107 113 118***

Nodo	x [m]	A_{fe} [cm^2]	A_{fi} [cm^2]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm^2]	σ_{bi} [kg/cm^2]	σ_{fe} [kg/cm^2]	σ_{fi} [kg/cm^2]	w mm
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
107	0.30	9.42	9.42			6271.1	19158.6	0.11	-5040.9	-19158.6	0.11					
					SLE Rare	1511.9			0.0			0.0	8.9	320.9	93.3	
					SLE Freq.	637.5			0.0			0.0	3.7	135.3	39.4	OK
					SLE Q.P.	615.1			0.0			0.0	3.6	130.6	38.0	OK
Camp.	1.77	9.42	9.42	2185.5	2024.7	2335.1	19158.6	0.11	-2315.7	-19158.6	0.11					
					SLE Rare	0.0			-1404.8			8.2	0.0	86.7	298.2	
					SLE Freq.	0.0			-943.6			5.5	0.0	58.3	200.3	OK
					SLE Q.P.	0.0			-932.5			5.5	0.0	57.6	197.9	OK
113	3.25	9.42	9.42			10347.5	19158.6	0.11	-6133.6	-19158.6	0.11					
					SLE Rare	2868.2			0.0			0.0	16.8	608.8	177.1	
					SLE Freq.	2123.5			0.0			0.0	12.4	450.7	131.1	OK
					SLE Q.P.	2107.0			0.0			0.0	12.3	447.2	130.1	OK
Trave Sez. 1 Rett. 30x60 [cm] T1_30x60																
113	0.00	9.42	9.42			14288.9	19158.6	0.11	-6753.9	-19158.6	0.11					
					SLE Rare	5243.7			0.0			0.0	30.7	1113.1	323.7	
					SLE Freq.	3805.1			0.0			0.0	22.3	807.7	234.9	OK
					SLE Q.P.	3767.5			0.0			0.0	22.1	799.7	232.6	OK
Camp.	2.27	9.42	9.42	2185.5	3622.8	131.6	19158.6	0.11	-3610.7	-19158.6	0.11					
					SLE Rare	0.0			-2506.3			14.7	0.0	154.7	532.0	
					SLE Freq.	0.0			-1683.5			9.9	0.0	103.9	357.4	OK
					SLE Q.P.	0.0			-1663.7			9.7	0.0	102.7	353.1	OK
118	4.55	9.42	9.42			11151.2	19158.6	0.11	-11797.9	-19158.6	0.11					
					SLE Rare	63.2			-334.0			2.0	0.4	20.6	70.9	
					SLE Freq.	0.0			-342.2			2.0	0.0	21.1	72.6	OK
					SLE Q.P.	0.0			-342.2			2.0	0.0	21.1	72.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kg]	$V_{Rd,c}$ [kg]	V_{Rcd} [kg]	V_{Rd} [kg]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
											Trave 107 113 Sez. 1 Rett. 30x60 [cm] T1_30x60
0.39	0.90	0.51	1.00	16024.9	8225.5	63801.0	19684.6	1615.3	7700.0	3933.8	ø 8 2br. 10.0'
0.90	2.39	1.50	1.00	15318.2	8225.5	63801.0	15747.7	1615.3	7700.0	3147.0	ø 8 2br. 12.5'
2.39	2.91	0.51	1.00	16024.9	8225.5	63801.0	19684.6	1615.3	7700.0	3933.8	ø 8 2br. 10.0'
											Trave 113 118 Sez. 1 Rett. 30x60 [cm] T1_30x60
0.00	4.18	4.18	1.00	11856.5	8225.5	63801.0	15747.7	2648.9	7700.0	3147.0	ø 8 2br. 12.5'

- En.Ex.Sys. WinStrand
- Verifiche travi

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)

Sigla:
WinStrand

Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional

Documentazione in uso:
Manuale teorico - Manuale d'uso

Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  - modellazione generale 6 gradi di libertà per nodo.
  - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  - Via statica equivalente.
  - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 21 Gennaio 2019, n. 7 "*Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018*"
- D.M. del 17 Gennaio 2018 "*Aggiornamento delle «Norme tecniche per le costruzioni»*"
- Circolare del 2 Febbraio 2009, n. 617 "*Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008*"
- D.M. del 14 Gennaio 2008 "*Approvazione delle nuove norme tecniche per le costruzioni*"
- Ordinanza n. 3274 del 20 Marzo 2003. "*Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica*"
- Ordinanza n. 3316. "*Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003*"
- D.M. del 16 Gennaio 1996. "*Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»*".
- D.M del 16 Gennaio 1996. "*Norme tecniche per le costruzioni in zone sismiche*"
- D.M. del 9 Gennaio 1996. "*Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche*".
- D.M. del 14 Febbraio 1992. "*Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche*".
- D.M. del 3 Ottobre 1978. "*Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi*".
- D.M. del 3 Marzo 1975. "*Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche*".
- D.M. del 3 Marzo 1975. "*Approvazione delle norme tecniche per le costruzioni in zone sismiche*".
- Legge n. 64 del 2 Febbraio 1974. "*Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche*".
- Legge n. 1086 del 5 Novembre 1971. "*Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica*".
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche pilastri

Modalità di verifica

I pilastri vengono verificati (a discrezione dell'utente) secondo una delle seguenti modalità:

- Presso-tenso flessione deviata.
- Presso-tenso flessione retta. In tale caso viene svolta prima la verifica a presso-tenso flessione considerando come azioni agenti lo sforzo normale ed il momento M_x agente sulla sezione poi, disgiuntamente, considerando come azioni agenti lo sforzo normale e l'altro momento M_y. A discrezione dell'operatore tali momenti (a favore della sicurezza) possono essere incrementati di un fattore di amplificazione anch'esso a discrezione dell'utente.

Le verifiche vengono effettuate nella sezione di sommità e in quella di base in tutte le combinazioni di carico.

Nelle stampe si riportano (per le due sezioni di verifica succitate) le sollecitazioni relative alla combinazione di carico critica. Le sollecitazioni di verifica alle estremità sono valutate ad una ascissa di spunto definita dall'utente.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Copr. [cm]	Verifica	cotg θ
1	Rett. P1_30x60	B 30 H 60 [cm]	Verpil	C30/37	1.50	1.00	300.0	170.0	180.0	300.0	135.0	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	Deviata	1.00
2	Rett. P2_60x30	B 60 H 30 [cm]	Verpil	C30/37	1.50	1.00	300.0	170.0	180.0	300.0	135.0	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	Deviata	1.00

Verifiche Pilastri:

Impostazioni di verifica delle sezioni dei pilastri

Sezione	Info	Ausiliaria	Esistente	Secondaria	Campo Elastico	Minimi Cap. 7
1	Rett. P1_30x60 B 30 H 60 [cm]					x
2	Rett. P2_60x30 B 60 H 30 [cm]					x

L'area complessiva dei bracci di staffa A_{st} è l'area totale delle staffe in entrambe le direzioni.

Le staffe disposte rispettano il rapporto meccanico volumetrico della staffatura di confinamento all'interno della zone critiche. La quantità di staffe per unità di lunghezza per duttilità viene disposta nelle sole zone critiche.

L'azione tagliante plastica è calcolata in accordo con EC8 5.4.2.3. Formula 5.9 Ai fini della valutazione dei momenti resistenti del pilastro nei due piani si assume lo sforzo assiale N pari al valore medio dello sforzo assiale nelle combinazioni di carico sismiche. I momenti resistenti sono valutati indipendentemente nei due piani.

Fattore di sovraresistenza $\gamma_{R,d\ (Nuovi)}$=1.10 $\gamma_{R,d\ (Esistenti)}$=0.00

Pilastro: 101/1 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >

Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
101	19	-7786.2	4916.5	6851.4	1.00	1.00	0.57
1	16	-5651.7	-14326.7	-4228.0	1.00	1.27	0.65

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	3.75	1.00	18764.0	24605.8	0.76	1.00	9406.9	11329.3	0.83	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
101	Ft. 25	-10737.5	1321.2	2357.4	680.0
	$\sigma_{s,c}$25	-10737.5	1321.2	2357.4	-460.5
	$\sigma_{cls,Max}$25	-10737.5	1321.2	2357.4	-45.7
	$\sigma_{cls,Med}$25	-10737.5	1321.2	2357.4	-18.1
1	Ft. 25	-12425.0	-1417.1	-864.4	121.2
	$\sigma_{s,c}$25	-12425.0	-1417.1	-864.4	-265.7
	$\sigma_{cls,Max}$25	-12425.0	-1417.1	-864.4	-21.9
	$\sigma_{cls,Med}$25	-12425.0	-1417.1	-864.4	-8.0
	Combinazioni Frequenti				
101	Ft. 34	-7819.6	609.8	2033.7	582.1
	$\sigma_{s,c}$34	-7819.6	609.8	2033.7	-338.2
	$\sigma_{cls,Max}$34	-7819.6	609.8	2033.7	-35.4
	$\sigma_{cls,Med}$34	-7819.6	609.8	2033.7	-15.4
1	Ft. 34	-9507.1	-921.2	-794.3	106.9
	$\sigma_{s,c}$34	-9507.1	-921.2	-794.3	-210.2
	$\sigma_{cls,Max}$34	-9507.1	-921.2	-794.3	-17.6
	$\sigma_{cls,Med}$34	-9507.1	-921.2	-794.3	-6.6
	Combinazioni Quasi Permanenti				
101	Ft. 41	-7708.1	595.4	2008.0	574.5
	$\sigma_{s,c}$41	-7708.1	595.4	2008.0	-333.2
	$\sigma_{cls,Max}$41	-7708.1	595.4	2008.0	-34.9
	$\sigma_{cls,Med}$41	-7708.1	595.4	2008.0	-15.2
1	Ft. 41	-9395.6	-911.3	-783.4	105.3
	$\sigma_{s,c}$41	-9395.6	-911.3	-783.4	-207.5

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	$\sigma_{cls,Max}$41	-9395.6	-911.3	-783.4	-17.4
	$\sigma_{cls,Med}$41	-9395.6	-911.3	-783.4	-6.5

Pilastro: 3/103 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
3	19	-16162.2	-3359.3	17724.8	1.00	1.00	0.71
103	19	-14474.7	3301.2	-14151.7	1.00	1.00	0.58

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	0.60	1.00	10706.5	14501.5	0.74	1.00	18703.5	31495.4	0.59	ø 8 4br./12.5	0.229
0.60	2.55	1.00	10706.5	12084.6	0.89	1.00	18703.5	26246.2	0.71	ø 8 4br./15.0	0.191
2.55	3.15	1.00	10706.5	14501.5	0.74	1.00	18703.5	31495.4	0.59	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
3	Ft. 25	-21498.5	-2331.0	2042.7	365.1
	$\sigma_{s,c}$25	-21498.5	-2331.0	2042.7	-542.8
	$\sigma_{cls,Max}$25	-21498.5	-2331.0	2042.7	-46.9
	$\sigma_{cls,Med}$25	-21498.5	-2331.0	2042.7	-17.6
103	Ft. 25	-19811.0	2607.4	-336.9	309.4
	$\sigma_{s,c}$25	-19811.0	2607.4	-336.9	-423.8
	$\sigma_{cls,Max}$25	-19811.0	2607.4	-336.9	-38.9
	$\sigma_{cls,Med}$25	-19811.0	2607.4	-336.9	-18.3
Combinazioni Frequenti					
3	Ft. 34	-16765.4	-1590.9	1551.1	218.4
	$\sigma_{s,c}$34	-16765.4	-1590.9	1551.1	-388.1
	$\sigma_{cls,Max}$34	-16765.4	-1590.9	1551.1	-32.9
	$\sigma_{cls,Med}$34	-16765.4	-1590.9	1551.1	-12.3
103	Ft. 34	-15077.9	1613.8	-183.5	124.0
	$\sigma_{s,c}$34	-15077.9	1613.8	-183.5	-273.8
	$\sigma_{cls,Max}$34	-15077.9	1613.8	-183.5	-24.0
	$\sigma_{cls,Med}$34	-15077.9	1613.8	-183.5	-11.4
Combinazioni Quasi Permanenti					
3	Ft. 41	-16554.3	-1570.8	1521.9	214.5
	$\sigma_{s,c}$41	-16554.3	-1570.8	1521.9	-382.4
	$\sigma_{cls,Max}$41	-16554.3	-1570.8	1521.9	-32.4
	$\sigma_{cls,Med}$41	-16554.3	-1570.8	1521.9	-12.1
103	Ft. 41	-14866.8	1588.7	-173.6	121.0
	$\sigma_{s,c}$41	-14866.8	1588.7	-173.6	-269.1
	$\sigma_{cls,Max}$41	-14866.8	1588.7	-173.6	-23.6
	$\sigma_{cls,Med}$41	-14866.8	1588.7	-173.6	-11.3

Pilastro: 104/4 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
104	19	-12030.1	3024.0	15558.6	1.00	1.00	0.64
4	9	-14302.6	-3088.2	17124.7	1.02	1.00	0.69

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	1.20	1.00	10254.3	14501.5	0.71	1.00	18005.9	31495.4	0.57	ø 8 4br./12.5	0.229
1.20	3.15	1.00	10254.3	12084.6	0.85	1.00	18005.9	26246.2	0.69	ø 8 4br./15.0	0.191
3.15	3.75	1.00	10254.3	14501.5	0.71	1.00	18005.9	31495.4	0.57	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
104	Ft. 25	-17370.5	3078.1	978.0	599.2
	$\sigma_{s,c}$25	-17370.5	3078.1	978.0	-525.3
	$\sigma_{cls,Max}$25	-17370.5	3078.1	978.0	-50.3
	$\sigma_{cls,Med}$25	-17370.5	3078.1	978.0	-21.5
4	Ft. 25	-19058.0	-2731.1	-233.7	357.6
	$\sigma_{s,c}$25	-19058.0	-2731.1	-233.7	-424.3

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	$\sigma_{cls,Max}25$	-19058.0	-2731.1	-233.7	-39.8
	$\sigma_{cls,Med}25$	-19058.0	-2731.1	-233.7	-19.1
Combinazioni Frequenti					
104	Ft. 34	-13204.6	1850.8	736.9	293.2
	$\sigma_{s,c}34$	-13204.6	1850.8	736.9	-341.9
	$\sigma_{cls,Max}34$	-13204.6	1850.8	736.9	-31.2
	$\sigma_{cls,Med}34$	-13204.6	1850.8	736.9	-13.1
4	Ft. 34	-14892.1	-1777.7	-135.8	168.5
	$\sigma_{s,c}34$	-14892.1	-1777.7	-135.8	-287.7
	$\sigma_{cls,Max}34$	-14892.1	-1777.7	-135.8	-25.9
	$\sigma_{cls,Med}34$	-14892.1	-1777.7	-135.8	-12.5
Combinazioni Quasi Permanenti					
104	Ft. 41	-13024.3	1819.0	723.6	286.8
	$\sigma_{s,c}41$	-13024.3	1819.0	723.6	-336.1
	$\sigma_{cls,Max}41$	-13024.3	1819.0	723.6	-30.7
	$\sigma_{cls,Med}41$	-13024.3	1819.0	723.6	-12.9
4	Ft. 41	-14711.8	-1751.9	-129.3	164.8
	$\sigma_{s,c}41$	-14711.8	-1751.9	-129.3	-283.3
	$\sigma_{cls,Max}41$	-14711.8	-1751.9	-129.3	-25.5
	$\sigma_{cls,Med}41$	-14711.8	-1751.9	-129.3	-12.3

Pilastro: 105/5 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
105	9	-14062.9	3373.1	-15553.3	1.00	1.00	0.64
5	9	-15750.4	-3476.8	17953.8	1.00	1.00	0.73

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	1.20	1.00	11227.6	14501.5	0.77	1.00	18737.3	31495.4	0.59	ø 8 4br./12.5	0.229
1.20	3.15	1.00	11227.6	12084.6	0.93	1.00	18737.3	26246.2	0.71	ø 8 4br./15.0	0.191
3.15	3.75	1.00	11227.6	14501.5	0.77	1.00	18737.3	31495.4	0.59	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
105	Ft. 25	-20356.2	2784.2	-933.5	408.7
	$\sigma_{s,c}25$	-20356.2	2784.2	-933.5	-500.4
	$\sigma_{cls,Max}25$	-20356.2	2784.2	-933.5	-45.6
	$\sigma_{cls,Med}25$	-20356.2	2784.2	-933.5	-19.6
5	Ft. 25	-22043.7	-2588.0	1292.6	342.1
	$\sigma_{s,c}25$	-22043.7	-2588.0	1292.6	-513.9
	$\sigma_{cls,Max}25$	-22043.7	-2588.0	1292.6	-45.3
	$\sigma_{cls,Med}25$	-22043.7	-2588.0	1292.6	-18.6
Combinazioni Frequenti					
105	Ft. 34	-15505.2	1725.0	-616.6	183.9
	$\sigma_{s,c}34$	-15505.2	1725.0	-616.6	-324.6
	$\sigma_{cls,Max}34$	-15505.2	1725.0	-616.6	-28.5
	$\sigma_{cls,Med}34$	-15505.2	1725.0	-616.6	-12.3
5	Ft. 34	-17192.7	-1779.4	851.3	184.1
	$\sigma_{s,c}34$	-17192.7	-1779.4	851.3	-356.9
	$\sigma_{cls,Max}34$	-17192.7	-1779.4	851.3	-30.8
	$\sigma_{cls,Med}34$	-17192.7	-1779.4	851.3	-12.9
Combinazioni Quasi Permanenti					
105	Ft. 41	-15290.3	1698.7	-600.3	180.0
	$\sigma_{s,c}41$	-15290.3	1698.7	-600.3	-319.2
	$\sigma_{cls,Max}41$	-15290.3	1698.7	-600.3	-28.0
	$\sigma_{cls,Med}41$	-15290.3	1698.7	-600.3	-12.1
5	Ft. 41	-16977.8	-1757.9	827.4	180.7
	$\sigma_{s,c}41$	-16977.8	-1757.9	827.4	-351.4
	$\sigma_{cls,Max}41$	-16977.8	-1757.9	827.4	-30.3
	$\sigma_{cls,Med}41$	-16977.8	-1757.9	827.4	-12.7

Pilastro: 107/7 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
107	13	-5207.7	6880.3	-8555.3	1.00	1.00	0.63
7	13	-6895.2	-7255.9	8555.3	1.00	1.10	0.64

Verifiche a Taglio

Da [m]	A [m]	cotg(θ)$_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	cotg(θ)$_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	1.20	1.00	9093.0	14501.5	0.63	1.00	17784.9	31495.4	0.56	ø 8 4br./12.5	0.229
1.20	3.15	1.00	9093.0	12084.6	0.75	1.00	17784.9	26246.2	0.68	ø 8 4br./15.0	0.191
3.15	3.75	1.00	9093.0	14501.5	0.63	1.00	17784.9	31495.4	0.56	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
107	Ft. 25	-11019.2	777.9	-4698.2	786.0
	$\sigma_{s,c}$25	-11019.2	777.9	-4698.2	-561.4
	$\sigma_{cls,Max}$25	-11019.2	777.9	-4698.2	-48.0
	$\sigma_{cls,Med}$25	-11019.2	777.9	-4698.2	-18.6
7	Ft. 25	-12706.7	-820.2	872.5	52.5
	$\sigma_{s,c}$25	-12706.7	-820.2	872.5	-218.6
	$\sigma_{cls,Max}$25	-12706.7	-820.2	872.5	-17.7
	$\sigma_{cls,Med}$25	-12706.7	-820.2	872.5	-7.0
Combinazioni Frequenti					
107	Ft. 34	-8020.2	449.9	-3983.5	681.6
	$\sigma_{s,c}$34	-8020.2	449.9	-3983.5	-441.2
	$\sigma_{cls,Max}$34	-8020.2	449.9	-3983.5	-37.7
	$\sigma_{cls,Med}$34	-8020.2	449.9	-3983.5	-15.5
7	Ft. 34	-9707.7	-556.9	858.8	46.3
	$\sigma_{s,c}$34	-9707.7	-556.9	858.8	-172.7
	$\sigma_{cls,Max}$34	-9707.7	-556.9	858.8	-13.8
	$\sigma_{cls,Med}$34	-9707.7	-556.9	858.8	-5.4
Combinazioni Quasi Permanenti					
107	Ft. 41	-7904.1	443.0	-3930.6	672.8
	$\sigma_{s,c}$41	-7904.1	443.0	-3930.6	-435.2
	$\sigma_{cls,Max}$41	-7904.1	443.0	-3930.6	-37.2
	$\sigma_{cls,Med}$41	-7904.1	443.0	-3930.6	-15.3
7	Ft. 41	-9591.6	-551.0	844.2	45.5
	$\sigma_{s,c}$41	-9591.6	-551.0	844.2	-170.4
	$\sigma_{cls,Max}$41	-9591.6	-551.0	844.2	-13.7
	$\sigma_{cls,Med}$41	-9591.6	-551.0	844.2	-5.3

Pilastro: 108/8 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
108	22	-13592.3	-18189.0	3143.2	1.00	1.00	0.69
8	22	-15279.8	20408.8	-3143.2	1.00	1.83	0.76

Verifiche a Taglio

Da [m]	A [m]	cotg(θ)$_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	cotg(θ)$_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	3.75	1.00	20707.4	24605.8	0.84	1.00	9497.3	11329.3	0.84	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
108	Ft. 26	-14948.4	-1429.5	2134.1	455.1
	$\sigma_{s,c}$26	-14948.4	-1429.5	2134.1	-457.1
	$\sigma_{cls,Max}$26	-14948.4	-1429.5	2134.1	-42.1
	$\sigma_{cls,Med}$26	-14948.4	-1429.5	2134.1	-16.5
8	Ft. 26	-16635.9	971.8	-513.5	-13.9
	$\sigma_{s,c}$25	-19145.8	1309.3	-227.5	-223.9
	$\sigma_{cls,Max}$25	-19145.8	1309.3	-227.5	-16.4
	$\sigma_{cls,Med}$25	-19145.8	1309.3	-227.5	-8.8
Combinazioni Frequenti					
108	Ft. 34	-14278.3	-1359.7	2039.9	434.6
	$\sigma_{s,c}$34	-14278.3	-1359.7	2039.9	-436.4
	$\sigma_{cls,Max}$34	-14278.3	-1359.7	2039.9	-40.2
	$\sigma_{cls,Med}$34	-14278.3	-1359.7	2039.9	-15.8
8	Ft. 34	-15965.8	922.8	-481.1	-15.0
	$\sigma_{s,c}$34	-15965.8	922.8	-481.1	-204.5
	$\sigma_{cls,Max}$34	-15965.8	922.8	-481.1	-15.6
	$\sigma_{cls,Med}$34	-15965.8	922.8	-481.1	-7.4
Combinazioni Quasi Permanenti					
108	Ft. 41	-14110.7	-1342.2	2016.4	429.5
	$\sigma_{s,c}$41	-14110.7	-1342.2	2016.4	-431.2
	$\sigma_{cls,Max}$41	-14110.7	-1342.2	2016.4	-39.7
	$\sigma_{cls,Med}$41	-14110.7	-1342.2	2016.4	-15.6
8	Ft. 41	-15798.2	910.5	-473.0	-15.3
	$\sigma_{s,c}$41	-15798.2	910.5	-473.0	-201.9
	$\sigma_{cls,Max}$41	-15798.2	910.5	-473.0	-15.4
	$\sigma_{cls,Med}$41	-15798.2	910.5	-473.0	-7.3

Pilastro: 9/109 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
9	15	-26334.4	-18879.9	-2040.1	1.00	1.20	0.61
109	15	-24646.9	15047.4	2040.1	1.00	1.00	0.49

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	3.15	1.00	21995.6	24605.8	0.89	1.00	9204.3	11329.3	0.81	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
9	Ft. 25	-26965.9	-1294.3	-85.3	-107.1
	$\sigma_{s,c}$25	-26965.9	-1294.3	-85.3	-263.7
	$\sigma_{cls,Max}$25	-26965.9	-1294.3	-85.3	-18.7
	$\sigma_{cls,Med}$25	-26965.9	-1294.3	-85.3	-12.4
109	Ft. 27	-24634.8	456.1	504.4	-98.0
	$\sigma_{s,c}$25	-25278.4	466.7	525.2	-247.7
	$\sigma_{cls,Max}$25	-25278.4	466.7	525.2	-18.3
	$\sigma_{cls,Med}$25	-25278.4	466.7	525.2	-11.6
Combinazioni Frequenti					
9	Ft. 33	-25707.2	-1172.0	-79.1	-105.7
	$\sigma_{s,c}$34	-25953.2	-1179.5	-78.3	-249.8
	$\sigma_{cls,Max}$34	-25953.2	-1179.5	-78.3	-17.7
	$\sigma_{cls,Med}$34	-25953.2	-1179.5	-78.3	-11.9
109	Ft. 33	-24019.7	449.5	494.8	-95.0
	$\sigma_{s,c}$34	-24265.7	452.2	498.7	-237.5
	$\sigma_{cls,Max}$34	-24265.7	452.2	498.7	-17.5
	$\sigma_{cls,Med}$34	-24265.7	452.2	498.7	-11.1
Combinazioni Quasi Permanenti					
9	Ft. 41	-25707.2	-1172.0	-79.1	-105.7
	$\sigma_{s,c}$41	-25707.2	-1172.0	-79.1	-247.8
	$\sigma_{cls,Max}$41	-25707.2	-1172.0	-79.1	-17.5
	$\sigma_{cls,Med}$41	-25707.2	-1172.0	-79.1	-11.8
109	Ft. 41	-24019.7	449.5	494.8	-95.0
	$\sigma_{s,c}$41	-24019.7	449.5	494.8	-235.3
	$\sigma_{cls,Max}$41	-24019.7	449.5	494.8	-17.4
	$\sigma_{cls,Med}$41	-24019.7	449.5	494.8	-11.0

Pilastro: 10/110 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
10	16	-23552.2	-17034.2	2013.7	1.00	1.10	0.56
110	16	-21864.7	13620.7	-2013.7	1.00	1.00	0.45

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	3.15	1.00	21085.1	24605.8	0.86	1.00	9434.8	11329.3	0.83	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
10	Ft. 25	-24172.3	-2099.5	374.0	-17.2
	$\sigma_{s,c}$25	-24172.3	-2099.5	374.0	-315.1
	$\sigma_{cls,Max}$25	-24172.3	-2099.5	374.0	-23.5
	$\sigma_{cls,Med}$25	-24172.3	-2099.5	374.0	-11.2
110	Ft. 25	-22484.8	1256.6	-473.1	-42.6
	$\sigma_{s,c}$25	-22484.8	1256.6	-473.1	-266.6
	$\sigma_{cls,Max}$25	-22484.8	1256.6	-473.1	-20.0
	$\sigma_{cls,Med}$25	-22484.8	1256.6	-473.1	-10.3
Combinazioni Frequenti					
10	Ft. 34	-23211.1	-1821.2	338.7	-29.2
	$\sigma_{s,c}$34	-23211.1	-1821.2	338.7	-289.9
	$\sigma_{cls,Max}$34	-23211.1	-1821.2	338.7	-21.5
	$\sigma_{cls,Med}$34	-23211.1	-1821.2	338.7	-10.6
110	Ft. 33	-21302.9	988.7	-423.1	-53.6
	$\sigma_{s,c}$34	-21523.6	1003.5	-429.1	-242.2

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	$\sigma_{cls,Max}34$	-21523.6	1003.5	-429.1	-18.0
	$\sigma_{cls,Med}34$	-21523.6	1003.5	-429.1	-9.9
Combinazioni Quasi Permanenti					
10	Ft. 41	-22990.4	-1799.2	334.0	-29.3
	$\sigma_{s,c}41$	-22990.4	-1799.2	334.0	-286.8
	$\sigma_{cls,Max}41$	-22990.4	-1799.2	334.0	-21.3
	$\sigma_{cls,Med}41$	-22990.4	-1799.2	334.0	-10.5
110	Ft. 41	-21302.9	988.7	-423.1	-53.6
	$\sigma_{s,c}41$	-21302.9	988.7	-423.1	-239.3
	$\sigma_{cls,Max}41$	-21302.9	988.7	-423.1	-17.8
	$\sigma_{cls,Med}41$	-21302.9	988.7	-423.1	-9.8

Pilastro: 12/112 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
12	14	-27756.4	-19813.1	1347.4	1.00	1.14	0.62
112	14	-26068.9	15923.6	-1347.4	1.00	1.00	0.49

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	3.15	1.00	21063.1	24605.8	0.86	1.00	8883.3	11329.3	0.78	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
12	Ft. 25	-28605.9	-1060.6	-43.1	-135.0
	$\sigma_{s,c}25$	-28605.9	-1060.6	-43.1	-258.4
	$\sigma_{cls,Max}25$	-28605.9	-1060.6	-43.1	-18.1
	$\sigma_{cls,Med}25$	-28605.9	-1060.6	-43.1	-13.1
112	Ft. 27	-26172.6	328.0	-189.8	-144.6
	$\sigma_{s,c}25$	-26918.4	415.4	-181.3	-224.4
	$\sigma_{cls,Max}25$	-26918.4	415.4	-181.3	-15.7
	$\sigma_{cls,Med}25$	-26918.4	415.4	-181.3	-12.3
Combinazioni Frequenti					
12	Ft. 33	-27203.2	-846.2	-33.9	-137.9
	$\sigma_{s,c}34$	-27466.0	-854.5	-35.8	-238.6
	$\sigma_{cls,Max}34$	-27466.0	-854.5	-35.8	-16.6
	$\sigma_{cls,Med}34$	-27466.0	-854.5	-35.8	-12.6
112	Ft. 33	-25515.7	319.2	-189.4	-140.6
	$\sigma_{s,c}34$	-25778.5	322.7	-189.6	-212.3
	$\sigma_{cls,Max}34$	-25778.5	322.7	-189.6	-14.9
	$\sigma_{cls,Med}34$	-25778.5	322.7	-189.6	-11.8
Combinazioni Quasi Permanenti					
12	Ft. 41	-27203.2	-846.2	-33.9	-137.9
	$\sigma_{s,c}41$	-27203.2	-846.2	-33.9	-236.2
	$\sigma_{cls,Max}41$	-27203.2	-846.2	-33.9	-16.4
	$\sigma_{cls,Med}41$	-27203.2	-846.2	-33.9	-12.5
112	Ft. 41	-25515.7	319.2	-189.4	-140.6
	$\sigma_{s,c}41$	-25515.7	319.2	-189.4	-210.3
	$\sigma_{cls,Max}41$	-25515.7	319.2	-189.4	-14.8
	$\sigma_{cls,Med}41$	-25515.7	319.2	-189.4	-11.7

Pilastro: 13/113 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
13	23	-16802.2	23602.1	-2713.3	1.00	2.07	0.86
113	23	-15114.7	-20464.6	2713.3	1.00	1.00	0.75

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	3.15	1.00	19645.0	24605.8	0.80	1.00	8694.6	11329.3	0.77	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
13	Ft. 26	-16775.7	706.0	-353.2	-44.3

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	$\sigma_{s,c}$25	-19294.3	924.2	-70.7	-189.5
	$\sigma_{cls,Max}$26	-16775.7	706.0	-353.2	-13.9
	$\sigma_{cls,Med}$25	-19294.3	924.2	-70.7	-8.8
113	Ft. 26	-15088.2	-1183.0	1930.6	350.3
	$\sigma_{s,c}$26	-15088.2	-1183.0	1930.6	-408.5
	$\sigma_{cls,Max}$26	-15088.2	-1183.0	1930.6	-37.0
	$\sigma_{cls,Med}$26	-15088.2	-1183.0	1930.6	-14.9
Combinazioni Frequenti					
13	Ft. 34	-16099.7	665.8	-324.9	-44.5
	$\sigma_{s,c}$34	-16099.7	665.8	-324.9	-176.9
	$\sigma_{cls,Max}$34	-16099.7	665.8	-324.9	-13.2
	$\sigma_{cls,Med}$34	-16099.7	665.8	-324.9	-7.4
113	Ft. 34	-14412.2	-1120.0	1842.6	333.0
	$\sigma_{s,c}$34	-14412.2	-1120.0	1842.6	-389.2
	$\sigma_{cls,Max}$34	-14412.2	-1120.0	1842.6	-35.2
	$\sigma_{cls,Med}$34	-14412.2	-1120.0	1842.6	-14.2
Combinazioni Quasi Permanenti					
13	Ft. 41	-15930.7	655.7	-317.8	-44.5
	$\sigma_{s,c}$41	-15930.7	655.7	-317.8	-174.5
	$\sigma_{cls,Max}$41	-15930.7	655.7	-317.8	-13.0
	$\sigma_{cls,Med}$41	-15930.7	655.7	-317.8	-7.3
113	Ft. 41	-14243.2	-1104.2	1820.6	328.6
	$\sigma_{s,c}$41	-14243.2	-1104.2	1820.6	-384.3
	$\sigma_{cls,Max}$41	-14243.2	-1104.2	1820.6	-34.8
	$\sigma_{cls,Med}$41	-14243.2	-1104.2	1820.6	-14.0

Pilastro: 114/14 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/10.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
114	18	-8852.1	-6625.2	6737.1	1.00	1.00	0.59
14	22	-7456.1	18370.5	-4002.8	1.00	1.32	0.77

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	3.75	1.00	17772.9	19684.6	0.90	1.00	8877.7	9063.4	0.98	ø 8/10.0	0.143

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
114	Ft. 26	-9092.1	-916.5	1675.5	426.2
	$\sigma_{s,c}$25	-11430.7	-1355.3	1706.7	-382.7
	$\sigma_{cls,Max}$25	-11430.7	-1355.3	1706.7	-35.3
	$\sigma_{cls,Med}$25	-11430.7	-1355.3	1706.7	-13.4
14	Ft. 25	-13118.2	3859.9	-229.7	350.8
	$\sigma_{s,c}$25	-13118.2	3859.9	-229.7	-380.4
	$\sigma_{cls,Max}$25	-13118.2	3859.9	-229.7	-30.5
	$\sigma_{cls,Med}$25	-13118.2	3859.9	-229.7	-13.6
Combinazioni Frequenti					
114	Ft. 34	-8620.5	-857.8	1592.2	404.3
	$\sigma_{s,c}$34	-8620.5	-857.8	1592.2	-313.7
	$\sigma_{cls,Max}$34	-8620.5	-857.8	1592.2	-30.4
	$\sigma_{cls,Med}$34	-8620.5	-857.8	1592.2	-12.2
14	Ft. 34	-10308.0	2894.4	-298.8	270.7
	$\sigma_{s,c}$34	-10308.0	2894.4	-298.8	-305.1
	$\sigma_{cls,Max}$34	-10308.0	2894.4	-298.8	-24.7
	$\sigma_{cls,Med}$34	-10308.0	2894.4	-298.8	-10.3
Combinazioni Quasi Permanenti					
114	Ft. 41	-8502.6	-843.2	1571.4	398.8
	$\sigma_{s,c}$41	-8502.6	-843.2	1571.4	-309.3
	$\sigma_{cls,Max}$41	-8502.6	-843.2	1571.4	-29.9
	$\sigma_{cls,Med}$41	-8502.6	-843.2	1571.4	-12.1
14	Ft. 41	-10190.1	2863.0	-292.7	267.4
	$\sigma_{s,c}$41	-10190.1	2863.0	-292.7	-301.4
	$\sigma_{cls,Max}$41	-10190.1	2863.0	-292.7	-24.4
	$\sigma_{cls,Med}$41	-10190.1	2863.0	-292.7	-10.2

Pilastro: 15/115 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
15	12	-17695.0	1678.5	-19256.0	1.00	1.00	0.72
115	12	-16007.5	-1330.5	17021.1	1.00	1.00	0.63

Verifiche a Taglio

Da [m]	A [m]	cotg(θ)$_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	cotg(θ)$_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	0.60	1.00	10972.1	14501.5	0.76	1.00	19298.3	31495.4	0.61	ø 8 4br./12.5	0.229
0.60	2.55	1.00	10972.1	12084.6	0.91	1.00	19298.3	26246.2	0.74	ø 8 4br./15.0	0.191
2.55	3.15	1.00	10972.1	14501.5	0.76	1.00	19298.3	31495.4	0.61	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
15	Ft. 25	-23190.9	1925.4	-524.8	82.1
	$\sigma_{s,c}$25	-23190.9	1925.4	-524.8	-374.2
	$\sigma_{cls,Max}$25	-23190.9	1925.4	-524.8	-31.2
	$\sigma_{cls,Med}$25	-23190.9	1925.4	-524.8	-14.2
115	Ft. 25	-21503.4	-1747.9	1797.7	189.3
	$\sigma_{s,c}$25	-21503.4	-1747.9	1797.7	-441.5
	$\sigma_{cls,Max}$25	-21503.4	-1747.9	1797.7	-36.7
	$\sigma_{cls,Med}$25	-21503.4	-1747.9	1797.7	-13.8
Combinazioni Frequenti					
15	Ft. 34	-19258.4	1323.3	-442.8	21.1
	$\sigma_{s,c}$34	-19258.4	1323.3	-442.8	-279.6
	$\sigma_{cls,Max}$34	-19258.4	1323.3	-442.8	-22.7
	$\sigma_{cls,Med}$34	-19258.4	1323.3	-442.8	-10.3
115	Ft. 34	-17570.9	-985.6	1538.8	78.8
	$\sigma_{s,c}$34	-17570.9	-985.6	1538.8	-308.6
	$\sigma_{cls,Max}$34	-17570.9	-985.6	1538.8	-24.7
	$\sigma_{cls,Med}$34	-17570.9	-985.6	1538.8	-9.6
Combinazioni Quasi Permanenti					
15	Ft. 41	-19036.1	1307.3	-441.0	21.0
	$\sigma_{s,c}$41	-19036.1	1307.3	-441.0	-276.5
	$\sigma_{cls,Max}$41	-19036.1	1307.3	-441.0	-22.4
	$\sigma_{cls,Med}$41	-19036.1	1307.3	-441.0	-10.1
115	Ft. 41	-17348.6	-967.6	1523.5	77.3
	$\sigma_{s,c}$41	-17348.6	-967.6	1523.5	-304.4
	$\sigma_{cls,Max}$41	-17348.6	-967.6	1523.5	-24.3
	$\sigma_{cls,Med}$41	-17348.6	-967.6	1523.5	-9.5

Pilastro: 116/16 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
116	18	-14840.2	-1943.5	16559.5	1.00	1.00	0.63
16	12	-17444.5	3037.8	19288.8	1.00	1.00	0.76

Verifiche a Taglio

Da [m]	A [m]	cotg(θ)$_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	cotg(θ)$_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	1.20	1.00	10062.8	14501.5	0.69	1.00	18608.8	31495.4	0.59	ø 8 4br./12.5	0.229
1.20	3.15	1.00	10062.8	12084.6	0.83	1.00	18608.8	26246.2	0.71	ø 8 4br./15.0	0.191
3.15	3.75	1.00	10062.8	14501.5	0.69	1.00	18608.8	31495.4	0.59	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Rare					
116	Ft. 25	-19907.0	-1688.1	893.5	115.0
	$\sigma_{s,c}$25	-19907.0	-1688.1	893.5	-358.2
	$\sigma_{cls,Max}$25	-19907.0	-1688.1	893.5	-29.9
	$\sigma_{cls,Med}$25	-19907.0	-1688.1	893.5	-12.6
16	Ft. 25	-21594.5	1824.3	-346.5	71.6
	$\sigma_{s,c}$25	-21594.5	1824.3	-346.5	-341.8
	$\sigma_{cls,Max}$25	-21594.5	1824.3	-346.5	-28.6
	$\sigma_{cls,Med}$25	-21594.5	1824.3	-346.5	-13.4
Combinazioni Frequenti					
116	Ft. 34	-16126.9	-881.2	727.3	13.3
	$\sigma_{s,c}$34	-16126.9	-881.2	727.3	-232.9
	$\sigma_{cls,Max}$34	-16126.9	-881.2	727.3	-18.5
	$\sigma_{cls,Med}$34	-16126.9	-881.2	727.3	-8.0
16	Ft. 34	-17814.3	1209.8	-283.1	8.5
	$\sigma_{s,c}$34	-17814.3	1209.8	-283.1	-248.8
	$\sigma_{cls,Max}$34	-17814.3	1209.8	-283.1	-20.2
	$\sigma_{cls,Med}$34	-17814.3	1209.8	-283.1	-9.4
Combinazioni Quasi Permanenti					
116	Ft. 41	-15918.5	-864.0	717.4	12.4
	$\sigma_{s,c}$41	-15918.5	-864.0	717.4	-229.2
	$\sigma_{cls,Max}$41	-15918.5	-864.0	717.4	-18.2
	$\sigma_{cls,Med}$41	-15918.5	-864.0	717.4	-7.8
16	Ft. 41	-17606.0	1195.1	-279.1	8.3
	$\sigma_{s,c}$41	-17606.0	1195.1	-279.1	-245.8

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	$\sigma_{cls,Max}$41	-17606.0	1195.1	-279.1	-19.9
	$\sigma_{cls,Med}$41	-17606.0	1195.1	-279.1	-9.3

Pilastro: 117/17 / L 3.15[m] / Sezione 2 B 60 H 30 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 3ϕ18 x 2 B + 0ϕ18 x 2 H >
Staffe: ø 8 4br./12.5 x 60.0 - ø 8 4br./15.0 x 195.0 - ø 8 4br./12.5 x 60.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
117	17	-18669.6	1181.1	16442.4	1.00	1.00	0.58
17	12	-19584.2	3789.1	18722.9	1.00	1.00	0.75

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.60	1.20	1.00	11723.5	14501.5	0.81	1.00	19478.7	31495.4	0.62	ø 8 4br./12.5	0.229
1.20	3.15	1.00	11723.5	12084.6	0.97	1.00	19478.7	26246.2	0.74	ø 8 4br./15.0	0.191
3.15	3.75	1.00	11723.5	14501.5	0.81	1.00	19478.7	31495.4	0.62	ø 8 4br./12.5	0.229

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
117	Ft. 25	-22696.5	-1840.1	1023.9	114.1
	$\sigma_{s,c}$25	-22696.5	-1840.1	1023.9	-398.1
	$\sigma_{cls,Max}$25	-22696.5	-1840.1	1023.9	-33.0
	$\sigma_{cls,Med}$25	-22696.5	-1840.1	1023.9	-13.8
17	Ft. 25	-24384.0	2003.9	-335.8	65.7
	$\sigma_{s,c}$25	-24384.0	2003.9	-335.8	-375.6
	$\sigma_{cls,Max}$25	-24384.0	2003.9	-335.8	-31.3
	$\sigma_{cls,Med}$25	-24384.0	2003.9	-335.8	-14.7
	Combinazioni Frequenti				
117	Ft. 34	-18519.1	-1077.7	901.7	28.5
	$\sigma_{s,c}$34	-18519.1	-1077.7	901.7	-278.9
	$\sigma_{cls,Max}$34	-18519.1	-1077.7	901.7	-22.3
	$\sigma_{cls,Med}$34	-18519.1	-1077.7	901.7	-9.4
17	Ft. 33	-19970.6	1387.5	-278.0	11.3
	$\sigma_{s,c}$34	-20206.6	1403.6	-278.3	-282.8
	$\sigma_{cls,Max}$34	-20206.6	1403.6	-278.3	-23.0
	$\sigma_{cls,Med}$34	-20206.6	1403.6	-278.3	-10.8
	Combinazioni Quasi Permanenti				
117	Ft. 41	-18283.1	-1059.5	894.5	27.9
	$\sigma_{s,c}$41	-18283.1	-1059.5	894.5	-275.1
	$\sigma_{cls,Max}$41	-18283.1	-1059.5	894.5	-22.0
	$\sigma_{cls,Med}$41	-18283.1	-1059.5	894.5	-9.3
17	Ft. 41	-19970.6	1387.5	-278.0	11.3
	$\sigma_{s,c}$41	-19970.6	1387.5	-278.0	-279.7
	$\sigma_{cls,Max}$41	-19970.6	1387.5	-278.0	-22.7
	$\sigma_{cls,Med}$41	-19970.6	1387.5	-278.0	-10.7

Pilastro: 18/118 / L 3.15[m] / Sezione 1 B 30 H 60 [cm]

Af: 10 ø 18 =25.45 [cm²] < 1ϕ18 x 4 V + 1ϕ18 x 2 B + 2ϕ18 x 2 H >
Staffe: ø 8/8.0 x 315.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N	M_{12}	M_{13}	α_{12}	α_{13}	Sd/Sr
18	23	-7062.5	20778.4	-4753.7	1.00	1.24	0.88
118	23	-5375.0	-13838.9	4753.7	1.00	1.00	0.66

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kg]	V_{Rd12} [kg]	S/R_{12} [kg]	$cotg(\theta)_{13}$	V_{d13} [kg]	V_{Rd13} [kg]	S/R_{13} [kg]	Staffe	ω_{wd}
0.00	3.15	1.00	19575.3	24605.8	0.80	1.00	8739.4	11329.3	0.77	ø 8/8.0	0.179

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
18	Ft. 25	-13067.8	3857.9	-248.5	355.2
	$\sigma_{s,c}$25	-13067.8	3857.9	-248.5	-382.9
	$\sigma_{cls,Max}$25	-13067.8	3857.9	-248.5	-30.8
	$\sigma_{cls,Med}$25	-13067.8	3857.9	-248.5	-13.6
118	Ft. 26	-9049.0	-888.5	1690.5	430.5
	$\sigma_{s,c}$25	-11380.3	-1199.0	1720.8	-370.7
	$\sigma_{cls,Max}$25	-11380.3	-1199.0	1720.8	-34.4
	$\sigma_{cls,Med}$25	-11380.3	-1199.0	1720.8	-13.4

Nodo	Combinazione	N [kg]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Combinazioni Frequenti					
18	Ft. 34	-10268.0	2970.3	-316.3	289.2
	$\sigma_{s,c}$34	-10268.0	2970.3	-316.3	-314.0
	$\sigma_{cls,Max}$34	-10268.0	2970.3	-316.3	-25.5
	$\sigma_{cls,Med}$34	-10268.0	2970.3	-316.3	-10.6
118	Ft. 34	-8580.5	-836.9	1606.7	409.1
	$\sigma_{s,c}$34	-8580.5	-836.9	1606.7	-313.4
	$\sigma_{cls,Max}$34	-8580.5	-836.9	1606.7	-30.4
	$\sigma_{cls,Med}$34	-8580.5	-836.9	1606.7	-12.3
Combinazioni Quasi Permanenti					
18	Ft. 41	-10150.8	2938.6	-310.0	285.8
	$\sigma_{s,c}$41	-10150.8	2938.6	-310.0	-310.2
	$\sigma_{cls,Max}$41	-10150.8	2938.6	-310.0	-25.2
	$\sigma_{cls,Med}$41	-10150.8	2938.6	-310.0	-10.5
118	Ft. 41	-8463.3	-824.0	1585.7	403.7
	$\sigma_{s,c}$41	-8463.3	-824.0	1585.7	-309.1
	$\sigma_{cls,Max}$41	-8463.3	-824.0	1585.7	-30.0
	$\sigma_{cls,Med}$41	-8463.3	-824.0	1585.7	-12.2

- En.Ex.Sys. WinStrand
- Verifiche pilastri

Snellezze dei Pilastri

Combinazioni di carico analizzate 1..24

N.B. Nella formula 5.13(N) EC2 5.8.3.1

λ_{lim}=20 A B C/√(ν)

Dove:

A = 1 / (1 + 0.2 φ_{ef})

B = √1 + 2 ω

C = 1.7 - r_m

ν = N_{Ed} / (A_c f_{cd})

Si è assunto A=0.70

Si è assunto B=1.10

C viene calcolato

Sezione 1 Rett. P1_30x60

Pilastro																						
Dal Nodo	Al Nodo	Piano	H_{Pil} [m]	A_c [cm²]	A_s [cm²]	f_{cd} [kg/cm²]	f_{yd} [kg/cm²]	Comb.	N_{Ed} [kg]	M_{01} [kgm]	M_{02} [kgm]	r_m	ω	ν	A	B	C_{min}	i [cm]	β	λ	λ_{lim}
101	1	12	3.75	1800.00	25.45	170.0	3913.0	20	-11476.2	243.8	575.9	-0.42	0.33	0.04	0.70	1.10	2.12	17.32	1.00	21.65	168.84
		13						23	-11286.6	1687.4	-1333.5	0.79	0.33	0.04	0.70	1.10	0.91	8.66	1.00	43.30	72.95

Sezione 2 Rett. P2_60x30

Pilastro																						
Dal Nodo	Al Nodo	Piano	H_{Pil} [m]	A_c [cm²]	A_s [cm²]	f_{cd} [kg/cm²]	f_{yd} [kg/cm²]	Comb.	N_{Ed} [kg]	M_{01} [kgm]	M_{02} [kgm]	r_m	ω	ν	A	B	C_{min}	i [cm]	β	λ	λ_{lim}
3	103	12	3.75	1800.00	25.45	170.0	3913.0	18	-18652.7	-678.5	316.9	0.47	0.33	0.06	0.70	1.10	1.23	8.66	1.00	43.30	76.90
		13						23	-18845.8	719.4	-557.0	0.77	0.33	0.06	0.70	1.10	0.93	17.32	1.00	21.65	57.45
104	4	12	3.75	1800.00	25.45	170.0	3913.0	1	-27782.2	4554.3	4014.0	-0.88	0.33	0.09	0.70	1.10	2.58	8.66	1.00	43.30	131.93
		13						1	-27782.2	1419.7	323.3	-0.23	0.33	0.09	0.70	1.10	1.93	17.32	1.00	21.65	98.53
105	5	12	3.75	1800.00	25.45	170.0	3913.0	1	-32085.1	4133.8	3815.1	-0.92	0.33	0.10	0.70	1.10	2.62	8.66	1.00	43.30	124.74
		13						1	-32085.1	-1296.3	-1790.2	-0.72	0.33	0.10	0.70	1.10	2.42	17.32	1.00	21.65	115.29
107	7	12	3.75	1800.00	25.45	170.0	3913.0	1	-18361.0	1175.0	1220.4	-0.96	0.33	0.06	0.70	1.10	2.66	8.66	1.00	43.30	167.40
		13						22	-11312.3	-2341.9	2928.8	0.80	0.33	0.04	0.70	1.10	0.90	17.32	1.00	21.65	72.12

Sezione 1 Rett. P1_30x60

Pilastro																						
Dal Nodo	Al Nodo	Piano	H_{Pil} [m]	A_c [cm²]	A_s [cm²]	f_{cd} [kg/cm²]	f_{yd} [kg/cm²]	Comb.	N_{Ed} [kg]	M_{01} [kgm]	M_{02} [kgm]	r_m	ω	ν	A	B	C_{min}	i [cm]	β	λ	λ_{lim}
108	8	12	3.75	1800.00	25.45	170.0	3913.0	9	-14190.7	-147.2	446.8	0.33	0.33	0.05	0.70	1.10	1.37	17.32	1.00	21.65	98.01
		13						15	-16316.7	889.6	-773.0	0.87	0.33	0.05	0.70	1.10	0.83	8.66	1.00	43.30	55.43
9	109	12	3.75	1800.00	25.45	170.0	3913.0	1	-39004.9	-1912.4	-711.9	-0.37	0.33	0.13	0.70	1.10	2.07	17.32	1.00	21.65	89.39
		13						2	-38962.1	-128.7	-773.4	-0.17	0.33	0.13	0.70	1.10	1.87	8.66	1.00	43.30	80.55
10	110	12	3.75	1800.00	25.45	170.0	3913.0	2	-34814.5	-2725.0	-1522.4	-0.56	0.33	0.11	0.70	1.10	2.26	17.32	1.00	21.65	103.12
		13						1	-34931.9	539.9	691.4	-0.78	0.33	0.11	0.70	1.10	2.48	8.66	1.00	43.30	113.08
12	112	12	3.75	1800.00	25.45	170.0	3913.0	2	-41297.9	-1296.9	-509.4	-0.39	0.33	0.13	0.70	1.10	2.09	17.32	1.00	21.65	87.73
		13						1	-41431.4	-44.8	282.4	0.16	0.33	0.14	0.70	1.10	1.54	8.66	1.00	43.30	64.51
13	113	12	3.75	1800.00	25.45	170.0	3913.0	11	-17698.3	-154.4	459.5	0.34	0.33	0.06	0.70	1.10	1.36	17.32	1.00	21.65	87.34
		13						16	-15151.9	886.3	-743.8	0.84	0.33	0.05	0.70	1.10	0.86	8.66	1.00	43.30	59.57
114	14	12	3.75	1800.00	25.45	170.0	3913.0	1	-18961.7	-2056.0	-5645.4	-0.36	0.33	0.06	0.70	1.10	2.06	17.32	1.00	21.65	127.70
		13						1	-18961.7	2518.1	355.8	-0.14	0.33	0.06	0.70	1.10	1.84	8.66	1.00	43.30	113.91

Sezione 2 Rett. P2_60x30

Pilastro																						
Dal Nodo	Al Nodo	Piano	H_{Pil} [m]	A_c [cm²]	A_s [cm²]	f_{cd} [kg/cm²]	f_{yd} [kg/cm²]	Comb.	N_{Ed} [kg]	M_{01} [kgm]	M_{02} [kgm]	r_m	ω	ν	A	B	C_{min}	i [cm]	β	λ	λ_{lim}
15	115	12	3.75	1800.00	25.45	170.0	3913.0	9	-18687.7	-24.1	-286.2	-0.08	0.33	0.06	0.70	1.10	1.78	8.66	1.00	43.30	111.19
		13						24	-17219.3	643.1	-597.4	0.93	0.33	0.06	0.70	1.10	0.77	17.32	1.00	21.65	50.06
116	16	12	3.75	1800.00	25.45	170.0	3913.0	11	-18684.2	215.4	-41.2	0.19	0.33	0.06	0.70	1.10	1.51	8.66	1.00	43.30	94.03
		13						1	-31393.4	1324.4	520.0	-0.39	0.33	0.10	0.70	1.10	2.09	17.32	1.00	21.65	100.61
117	17	12	3.75	1800.00	25.45	170.0	3913.0	1	-35490.4	-2777.6	-2977.5	-0.93	0.33	0.12	0.70	1.10	2.63	8.66	1.00	43.30	119.06
		13						1	-35490.4	1503.7	500.7	-0.33	0.33	0.12	0.70	1.10	2.03	17.32	1.00	21.65	91.93

Sezione 1 Rett. P1_30x60

Pilastro		Piano	H_{Pil} [m]	A_c [cm²]	A_s [cm²]	f_{cd} [kg/cm²]	f_{yd} [kg/cm²]	Comb.	N_{Ed} [kg]	M_{01} [kgm]	M_{02} [kgm]	r_m	ω	ν	A	B	C_{min}	i [cm]	β	λ	λ_{lim}
Dal Nodo	Al Nodo																				
18	118	12	3.75	1800.00	25.45	170.0	3913.0	1	-18888.1	5631.0	1813.2	-0.32	0.33	0.06	0.70	1.10	2.02	17.32	1.00	21.65	125.33
		13						13	-14189.6	332.8	-1134.0	0.29	0.33	0.05	0.70	1.10	1.41	8.66	1.00	43.30	100.59

Verifiche resistenza dei nodi a fessurazione diagonale

Verifiche di resistenza dei nodi di edifici nuovi:

- Per le verifiche di fessurazione diagonale usa le formule 7.4.10 o le 7.4.11-7.4.12 TU 2018
- Considera i nodi interni
- Considera i nodi esterni
- Considera i nodi di fondazione
- Considera i nodi di pilastri secondari

Verifiche di resistenza dei nodi di edifici esistenti:

- Per le verifiche di fessurazione diagonale di nodi rinforzati usa le formule 7.4.11-7.4.12 TU 2018
- Considera i nodi interni ed esterni

Verifiche di minimo dei nodi di edifici nuovi:

- Considera i nodi interni
- Considera i nodi esterni
- Considera i nodi di fondazione
- Considera i nodi di pilastri secondari

Nodo	Pilastro di riferimento	Ingombro nodo		Materiali		Staffe	Verifica fessurazione diagonale x											Verifica fessurazione diagonale y										Note
		B [cm]	H [cm]	f_{ck}	Acciaio	ø	n. staffe	n. braccia	b_x [cm]	h_x [cm]	$As_{1,x}$ [cm^2]	$As_{2,x}$ [cm^2]	Comb.	ν	$V_{jbd,Edx}$ [kg]	$V_{jbd,Rdx}$ [kg]	n. staffe	n. braccia	b_y [cm]	h_y [cm]	$As_{1,y}$ [cm^2]	$As_{2,y}$ [cm^2]	Comb.	ν	$V_{jbd,Edy}$ [kg]	$V_{jbd,Rdy}$ [kg]	
1	101 1	30	60	C30/37	B 450 C	3 x 3	3 x 3	2	75	70	12.57	15.71	1	0.00000	54089.4	55318.7	3 x 3	2	60	70	12.57	15.71	1	0.00000	54089.4	55318.7	
3	3 103	60	30	C30/37	B 450 C	2 x 10	2 x 10	2	30	70	12.57	15.71	15	0.04183	117628.1	122930.5	2 x 10	2	75	70	12.57	15.71	1	0.00000	54089.4	122930.5	
4	104 4	60	30	C30/37	B 450 C	2 x 9	2 x 9	2	30	70	12.57	12.57	16	0.03995	104721.3	110637.5	2 x 9	2	45	70	12.57	12.57	1	0.00000	54089.4	110637.5	
5	105 5	60	30	C30/37	B 450 C	2 x 10	2 x 10	2	30	70	12.57	15.71	14	0.04383	117433.9	122930.5	2 x 10	2	75	70	12.57	15.71	1	0.00000	54089.4	122930.5	
7	107 7	60	30	C30/37	B 450 C	3 x 4	3 x 4	2	60	70	12.57	15.71	1	0.00000	54089.4	73758.3	3 x 4	2	75	70	12.57	15.71	1	0.00000	54089.4	73758.3	
8	108 8	30	60	C30/37	B 450 C	2 x 10	2 x 10	2	75	70	12.57	12.72	1	0.00000	54089.4	122930.5	2 x 10	2	60	70	12.57	15.71	10	0.04488	117331.8	122930.5	
9	9 109	30	60	C30/37	B 450 C	2 x 10	2 x 10	2	75	70	12.57	12.72	22	0.08196	101717.5	122930.5	2 x 10	2	60	70	12.57	15.71	22	0.08196	113721.4	122930.5	
10	10 110	30	60	C30/37	B 450 C	2 x 9	2 x 9	2	75	70	12.57	12.57	1	0.00000	54089.4	110637.5	2 x 9	2	60	70	12.57	12.57	22	0.07309	101853.7	110637.5	
12	12 112	30	60	C30/37	B 450 C	2 x 10	2 x 10	2	75	70	12.57	12.72	23	0.08709	101270.7	122930.5	2 x 10	2	60	70	12.57	15.71	23	0.08709	113221.9	122930.5	
13	13 113	30	60	C30/37	B 450 C	2 x 10	2 x 10	2	75	70	12.57	12.72	1	0.00000	54089.4	122930.5	2 x 10	2	60	70	12.57	15.71	17	0.04575	117247.1	122930.5	
14	114 14	30	60	C30/37	B 450 C	9	9	2	75	70	12.57	15.71	1	0.00000	54089.4	55318.7	9	2	60	70	12.57	15.71	1	0.00000	54089.4	55318.7	
15	15 115	60	30	C30/37	B 450 C	2 x 10	2 x 10	2	60	70	12.57	15.71	21	0.05249	116590.6	122930.5	2 x 10	2	75	70	12.57	15.71	1	0.00000	54089.4	122930.5	
16	116 16	60	30	C30/37	B 450 C	2 x 10	2 x 10	2	60	70	12.57	15.71	22	0.05008	116825.7	122930.5	2 x 10	2	75	70	12.57	15.71	1	0.00000	54089.4	122930.5	
17	117 17	60	30	C30/37	B 450 C	2 x 10	2 x 10	2	60	70	12.57	15.71	24	0.05528	116319.4	122930.5	2 x 10	2	75	70	12.57	15.71	1	0.00000	54089.4	122930.5	
18	18 118	30	60	C30/37	B 450 C	3 x 3	3 x 3	2	75	70	12.57	15.71	1	0.00000	54089.4	55318.7	3 x 3	2	60	70	12.57	15.71	1	0.00000	54089.4	55318.7	
101	101 1	30	60	C30/37	B 450 C	7	7	2	45	50	9.42	9.42	15	0.00956	40256.9	43025.7	7	2	30	50	9.42	9.42	15	0.00956	40256.9	43025.7	
103	3 103	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	15	0.03632	39388.4	86051.4	
104	104 4	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	16	0.03444	39449.5	86051.4	
105	105 5	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	14	0.03832	39323.6	86051.4	
107	107 7	60	30	C30/37	B 450 C	7	7	2	30	50	9.42	9.42	14	0.01279	40151.9	43025.7	7	2	45	50	9.42	9.42	14	0.01279	40151.9	43025.7	
108	108 8	30	60	C30/37	B 450 C	2 x 7	2 x 7	2	45	50	9.42	9.42	10	0.03936	39289.6	86051.4	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	
109	9 109	30	60	C30/37	B 450 C	2 x 7	2 x 7	2	45	50	9.42	9.42	22	0.07645	38086.1	86051.4	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	
110	10 110	30	60	C30/37	B 450 C	2 x 7	2 x 7	2	45	50	9.42	9.42	22	0.06757	38374.1	86051.4	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	
112	12 112	30	60	C30/37	B 450 C	2 x 7	2 x 7	2	45	50	9.42	9.42	23	0.08158	37919.6	86051.4	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	
113	13 113	30	60	C30/37	B 450 C	2 x 7	2 x 7	2	45	50	9.42	9.42	17	0.04023	39261.3	86051.4	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	
114	114 14	30	60	C30/37	B 450 C	7	7	2	45	50	9.42	9.42	21	0.01580	40054.4	43025.7	7	2	30	50	9.42	9.42	21	0.01580	40054.4	43025.7	
115	15 115	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	21	0.04698	39042.5	86051.4	
116	116 16	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	22	0.04456	39120.9	86051.4	
117	117 17	60	30	C30/37	B 450 C	2 x 7	2 x 7	2	30	50	9.42	9.42	1	0.00000	81134.1	86051.4	2 x 7	2	45	50	9.42	9.42	24	0.04976	38952.1	86051.4	
118	18 118	30	60	C30/37	B 450 C	7	7	2	45	50	9.42	9.42	24	0.01446	40097.8	43025.7	7	2	30	50	9.42	9.42	24	0.01446	40097.8	43025.7	

Verifiche resistenza dei nodi a compressione diagonale

Verifiche di resistenza dei nodi di edifici nuovi:

- Per le verifiche di fessurazione diagonale usa le formule 7.4.10 o le 7.4.11-7.4.12 TU 2018
- Considera i nodi interni
- Considera i nodi esterni
- Considera i nodi di fondazione
- Considera i nodi di pilastri secondari

Verifiche di resistenza dei nodi di edifici esistenti:

- Per le verifiche di fessurazione diagonale di nodi rinforzati usa le formule 7.4.11-7.4.12 TU 2018
- Considera i nodi interni ed esterni

Verifiche di minimo dei nodi di edifici nuovi:

- Considera i nodi interni
- Considera i nodi esterni
- Considera i nodi di fondazione
- Considera i nodi di pilastri secondari

Nodo	Pilastro di riferimento	Ingombro nodo		Materiali		Staffe ø	Verifica compressione diagonale x										Verifica compressione diagonale y										Note
		B [cm]	H [cm]	f_{ck}	Acciaio		Comb.	$\nu_{d,x}$	$\alpha_{j,x}$	η_x	n. staffe	n. braccia	$b_{j,x}$ [cm]	$h_{j,x}$ [cm]	$V_{jbd,Edx}$ [kg]	$V_{jbd,Rdx}$ [kg]	Comb.	$\nu_{d,y}$	$\alpha_{j,y}$	η_y	n. staffe	n. braccia	$b_{j,y}$ [cm]	$h_{j,y}$ [cm]	$V_{jbd,Edy}$ [kg]	$V_{jbd,Rdy}$ [kg]	
1	101 1	30	60	C30/37	B 450 C	10	1	0.059	0.48	0.422	3 x 3	2	75	21	66351.3	102954.0	1	0.059	0.48	0.422	3 x 3	2	60	51	66510.0	202309.7	
3	3 103	60	30	C30/37	B 450 C	10	1	0.102	0.60	0.528	2 x 10	2	30	51	120824.9	122367.4	1	0.102	0.48	0.422	2 x 10	2	75	21	65661.4	96601.4	
4	104 4	60	30	C30/37	B 450 C	10	1	0.091	0.60	0.528	2 x 9	2	30	51	107714.1	123988.7	1	0.091	0.48	0.422	2 x 9	2	45	21	51804.5	58979.8	
5	105 5	60	30	C30/37	B 450 C	10	1	0.105	0.60	0.528	2 x 10	2	30	51	120878.1	121978.4	1	0.105	0.48	0.422	2 x 10	2	75	21	65492.1	96192.9	
7	107 7	60	30	C30/37	B 450 C	10	1	0.060	0.48	0.422	3 x 4	2	60	51	65437.1	201931.8	1	0.060	0.48	0.422	3 x 4	2	75	21	66973.0	102761.7	
8	108 8	30	60	C30/37	B 450 C	10	1	0.090	0.48	0.422	2 x 10	2	75	21	53979.7	98349.8	1	0.090	0.60	0.528	2 x 10	2	60	51	120455.2	248073.1	
9	9 109	30	60	C30/37	B 450 C	10	1	0.127	0.60	0.528	2 x 10	2	75	21	108606.0	120785.1	2	0.127	0.60	0.528	2 x 10	2	60	51	121037.0	237390.1	
10	10 110	30	60	C30/37	B 450 C	10	1	0.114	0.48	0.422	2 x 9	2	75	21	53761.1	94773.3	2	0.114	0.60	0.528	2 x 9	2	60	51	107046.2	241372.0	
12	12 112	30	60	C30/37	B 450 C	10	1	0.135	0.60	0.528	2 x 10	2	75	21	108791.6	119583.5	2	0.135	0.60	0.528	2 x 10	2	60	51	121219.5	235117.9	
13	13 113	30	60	C30/37	B 450 C	10	1	0.091	0.48	0.422	2 x 10	2	75	21	54124.5	98250.9	1	0.091	0.60	0.528	2 x 10	2	60	51	120737.0	247884.0	
14	114 14	30	60	C30/37	B 450 C	10	1	0.062	0.48	0.422	9	2	75	21	66845.4	102483.0	1	0.062	0.48	0.422	9	2	60	51	65558.1	201384.1	
15	15 115	60	30	C30/37	B 450 C	10	1	0.110	0.60	0.528	2 x 10	2	60	51	120794.2	242399.9	1	0.110	0.48	0.422	2 x 10	2	75	21	66144.9	95373.9	
16	116 16	60	30	C30/37	B 450 C	10	1	0.103	0.60	0.528	2 x 10	2	60	51	121209.4	244607.7	1	0.103	0.48	0.422	2 x 10	2	75	21	66198.8	96534.7	
17	117 17	60	30	C30/37	B 450 C	10	1	0.116	0.60	0.528	2 x 10	2	60	51	121166.7	240727.5	1	0.116	0.48	0.422	2 x 10	2	75	21	66077.1	94492.3	
18	18 118	30	60	C30/37	B 450 C	10	1	0.062	0.48	0.422	3 x 3	2	75	21	66834.7	102517.2	1	0.062	0.48	0.422	3 x 3	2	60	51	65626.6	201451.3	
101	101 1	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	7	2	45	21	40567.1	66566.0	1	0.000	0.48	0.422	7	2	30	51	40567.1	109004.5	
103	3 103	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
104	104 4	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
105	105 5	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
107	107 7	60	30	C30/37	B 450 C	10	1	0.000	0.48	0.422	7	2	30	51	40567.1	109004.5	1	0.000	0.48	0.422	7	2	45	21	40567.1	66566.0	
108	108 8	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	
109	9 109	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	
110	10 110	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	
112	12 112	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	
113	13 113	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	
114	114 14	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	7	2	45	21	40567.1	66566.0	1	0.000	0.48	0.422	7	2	30	51	40567.1	109004.5	
115	15 115	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
116	116 16	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
117	117 17	60	30	C30/37	B 450 C	10	1	0.000	0.60	0.528	2 x 7	2	30	51	81134.1	136255.7	1	0.000	0.48	0.422	2 x 7	2	45	21	40567.1	66566.0	
118	18 118	30	60	C30/37	B 450 C	10	1	0.000	0.48	0.422	7	2	45	21	40567.1	66566.0	1	0.000	0.48	0.422	7	2	30	51	40567.1	109004.5	