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CODE CODICE

Calcoliprelstrutture_Calcoli preliminari delle
strutture

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REGIONE
PUGLIA



COMUNE DI SAN
GIOVANNI ROTONDO



PROVINCIA DI
FOGGIA



COMUNE DI
MANFREDONIA



COMUNE DI SAN
MARCO IN LAMIS

IMPIANTO AGROVOLTAICO "LA FEUDALE" ED OPERE DI CONNESSIONE

CALCOLI PRELIMINARI DELLE STRUTTURE

00	29/09/2021	PRIMA EMISSIONE	GN.M.	E.S.	L.S.
REV.	DATE	DESCRIPTION	PREPARED	VERIFIED	APPROVED

VALIDO PER

IMPIANTO AGROVOLTAICO LA FEUDALE

PROGETTO

DEFINITIVO

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1. PREMESSA

La presente relazione si riferisce ai calcoli statici e dinamici relativi alle strutture, da installarsi, nell'ambito della realizzazione dell'impianto Agrovoltaiico denominato "La Feudale" comprensivo delle opere di connessione, proposto da Luminora LA Feudale S.r.l. nei comuni di San Giovanni Rotondo (FG), San Marco in Lamis (FG) e Manfredonia (FG). In particolare, verranno presentati i principali risultati dei calcoli statici e dinamici e le relative verifiche ai sensi del D.M.17 Gennaio 2018.

Catastalmente le opere oggetto della presente sono di seguito localizzate:

- Aree di Impianto: Comune di Manfredonia, foglio 64 particelle 108, 74, 106, 73, 80 e 91 foglio 65 particelle 54, 51, 180 e 48;
- Aree di Impianto: Comune di San Giovanni Rotondo, foglio 149 particelle 34, 35.

Segue Inquadramento geografico del Progetto.



Figura 1: Localizzazione delle aree di intervento (Fonte: Google Earth)

2. CARATTERISTICHE GEOMETRICHE, FUNZIONALI E COSTRUTTIVE

I moduli fotovoltaici considerati sono in silicio monocristallino monofacciale da 120 celle e potenza 605W ed efficienza fino a 21.4% con performance lineare garantita 25 anni. I moduli sono provvisti di cornice in alluminio. Le caratteristiche del singolo modulo sono: 2172×1303×35 mm, peso 30.9kg.

I moduli fotovoltaici sono montati su strutture monoassiali ad inseguimento solare dette tracker, aventi asse principale posizionato nella direzione Nord-Sud e caratterizzate da un angolo di rotazione pari a +60° e a -60°. Nella configurazione elettrica di progetto si prevede l'installazione di due tipologie di vele fotovoltaiche con orientamento verticale dei moduli (Portrait):

- Tipologia 1: vela fotovoltaica (2x32) di dimensioni reali 4.354 m x 42.576 m;

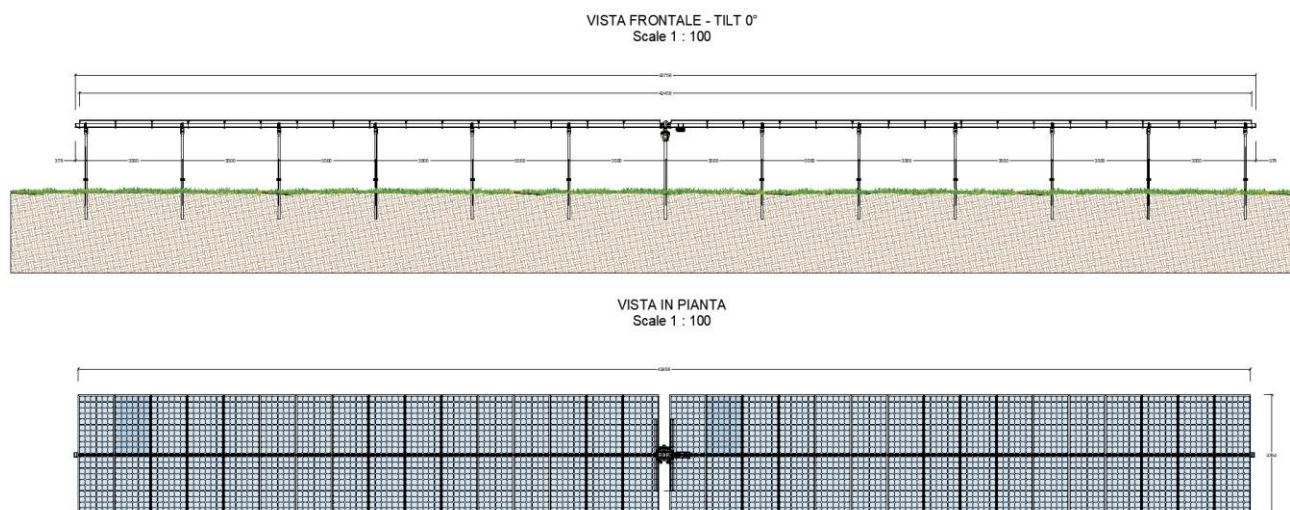
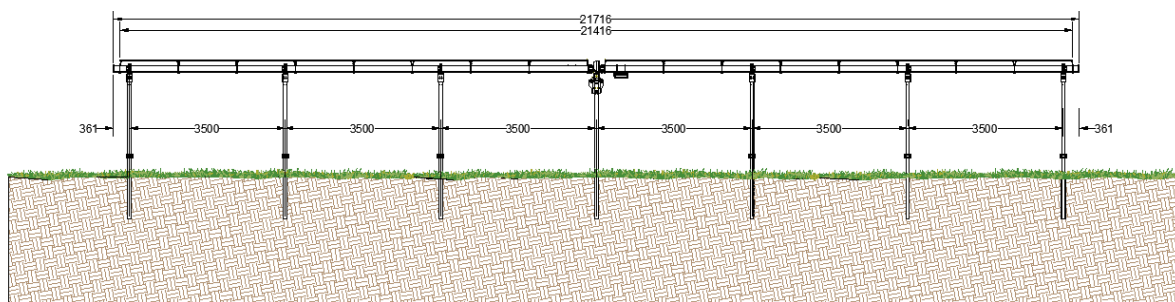


figura 2 : Strutture Tracker 2 x 32

- Tipologia 2: vela fotovoltaica (2x16) di dimensioni reali 4.345 m x 21.716 m.

VISTA FRONTALE - TILT 0°
Scale 1 : 100



VISTA IN PIANTA
Scale 1 : 100

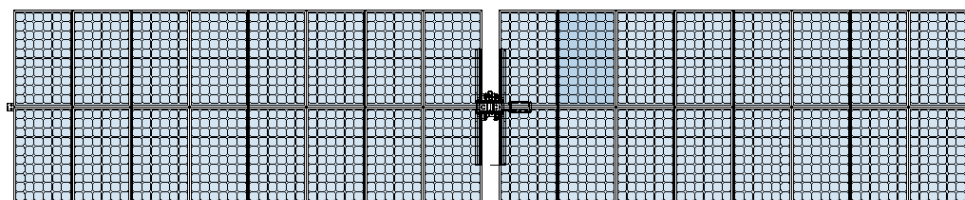
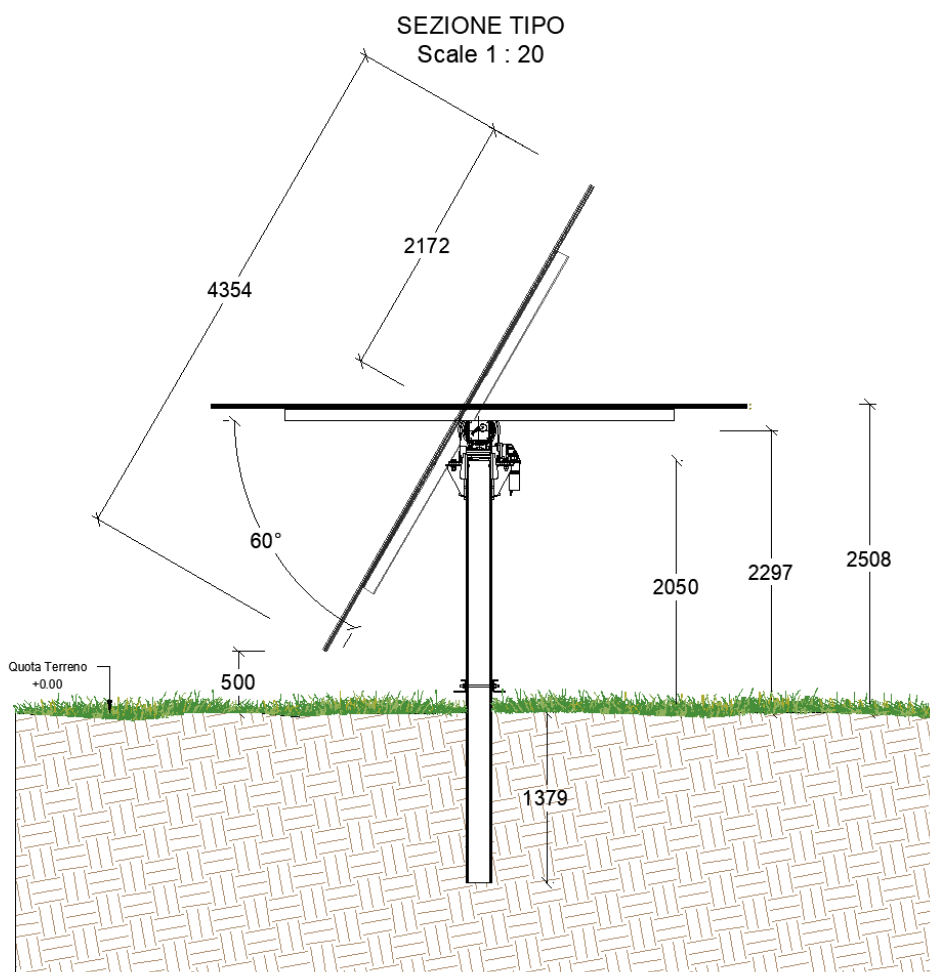


figura 3 : Strutture Tracker 2 x 16

Ogni tracker utilizza dispositivi elettrici, elettromeccanici ed elettronici per seguire il sole nella sua traiettoria da Est verso Ovest. Il sistema backtracking controlla e assicura che i moduli presenti sui tracker non siano responsabili di mutuo ombreggiamento.

3. CARATTERISTICHE STRUTTURALI

La struttura della vela fotovoltaica del tipo infissa sarà costituita completamente da profilati in acciaio S275 zincato con classe di corrosività C5-H (classe di corrosività C5 e durabilità alta). Le strutture tracker 2 x 32 sono costituite da dodici portali con un'interasse di 3,50 m e due sbalzi di 0,378 m. Le strutture Tracker 2 x 16 sono costituite da sei portali con un interasse di 3,50 m e due sbalzi da 0,361 m.



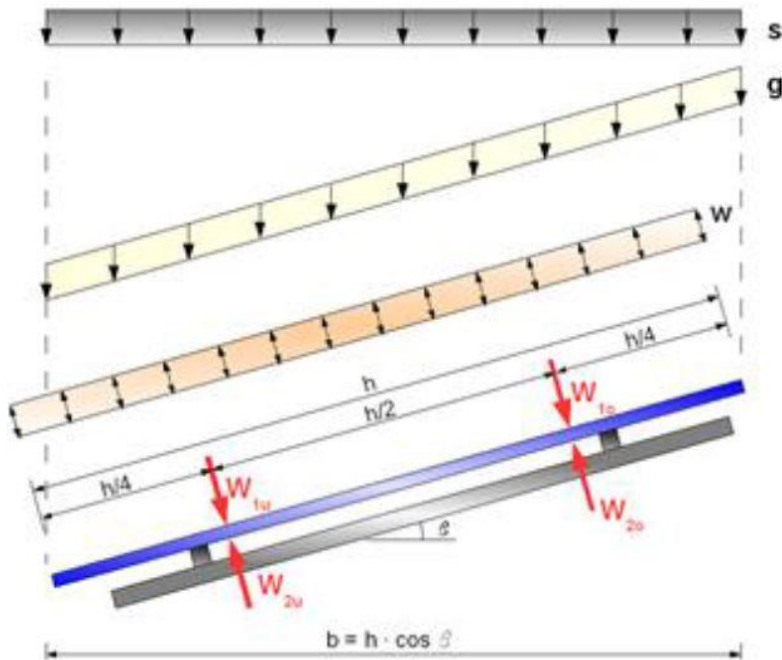
Gli elementi strutturali costituenti le strutture Tracker 2 x 16 e 2 x 32 sono rappresentati da un pilastro centrale di sezione HEA 200 e montanti verticali HEA 160, gli elementi verticali sono collegati in testa con un profilato in acciaio di sezione tubolare quadrata 120 x 120 x 3, gli elementi di appoggio dei moduli solari sono rappresentati da profili ad omega.

4. Norme Tecniche

- D.M. 17/01/2018
- Circolare 21/01/2019, n. 7
- DIN 4113 Teil 1: Aluminiumkonstruktionen unter vorwiegend ruhender Belastung, Bauliche Durchbildung und Konstruktion, Ausgabe 05/1980
- DIN 4113 Teil 2: Aluminiumkonstruktionen unter vorwiegend ruhender Belastung, Berechnung geschweißter Konstruktionen, Ausgabe 09/2002
- DIN 18800 Teil 1 (Ausgabe 11/90): Stahlbauten
- Eurocode 9: Dimensionamento e costruzione per costruzioni in alluminio.

5. ANALISI DEI CARICHI

Le generiche azioni considerate per il dimensionamento degli elementi strutturali sono rappresentati nella seguente figura:



Ove:

β °: angolo di inclinazione rispetto all'orizzontale

g [kN/m²] secondo certificazione del produttore

s [kN/m²] D.M. 17/01/2018

w [kN/m²] D.M. 17/01/2018

W [kN/m] D.M. 17/01/2018

5.1. Carichi Permanenti

5.1.1. Peso proprio dei Moduli Fotovoltaici g_{k1}

Il peso proprio del singolo modulo, come indicato nel paragrafo 1.2 della presente relazione, è stato ottenuto dal datasheet dei moduli fotovoltaici che saranno utilizzati nel progetto in esame.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	2172×1303×35 mm (85.51×51.30×1.38 inches)
Weight	30.9 kg (68.1 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA
Backsheet	White
Frame	35mm(1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: 280/280 mm(11.02/11.02 inches) Landscape: 1400/1400 mm(55.12/55.12 inches)
Connector	MC4 EVO2 / TS4*

Si ha quindi che il peso proprio del singolo modulo è:

$$G_{k1} = 30,9 \text{ kg} = 30,9 \text{ daN}$$

Nel modello strutturale analizzato in PRO_SAP il peso dei moduli è stato considerato agente sui profili omega come carico distribuito, si esegue una distinzione tra i profili esterni, i quali ricevono il peso di un modulo, ed i profili interni sui quali è concentrato il carico di due moduli:

- $g_{k1} = \frac{30,9}{(217,2 \cdot 130,3)} = 0,0019 \text{ daN/cm}^2$
- $g_{k1\_montanti\_estremi} = 0,0019 \cdot \left(\frac{130,3}{2}\right) = 0,123 \text{ daN/cm}$
- $G_{k1\_montanti\_estremi} = 0,123 \cdot 60 = 7,38 \text{ daN}$
- $M_{k1\_montanti\_estremi} = 0,123 \cdot 60 \cdot \left(\frac{60}{2}\right) = 221,4 \text{ daN cm}$
- $g_{k1\_montanti\_interni} = 0,0019 \cdot 130,3 = 0,247 \text{ daN/cm}$
- $G_{k1\_montanti\_interni} = 0,247 \cdot 60 = 14,82 \text{ daN}$
- $M_{k1\_montanti\_interni} = 0,247 \cdot 60 \cdot \left(\frac{60}{2}\right) = 444,6 \text{ daN cm}$

5.1.2. Carico neve

L'azione della neve viene valutata in accordo al par. 3.4 delle vigenti norme tecniche per le costruzioni NTC2018; il carico provocato dalla neve sulle coperture sarà valutato quindi, secondo la seguente espressione:

$$q_s = q_{sk} \cdot \mu_i \cdot C_E \cdot C_t$$

Dove:

- q_{sk} è il valore di riferimento del carico della neve al suolo;
- μ_i è il coefficiente di forma della copertura;
- C_E è il coefficiente di esposizione;
- C_t è il coefficiente termico

q_{sk} Valore di riferimento della neve al suolo

Tale parametro dipende dalle condizioni locali di clima e di esposizione. In assenza di adeguate indagini statistiche e specifici studi locali, che tengano conto sia dell'altezza del manto nevoso che della sua densità, per località inferiori ai 1500 m.s.l.m. verrà calcolato in accordo a quanto descritto al par. 3.4.2. delle NTC18 per un tempo di ritorno $T_r=50$ anni.

Le strutture oggetto della presente relazione sono previste per l'impianto ubicato nel comune di Manfredonia e San Giovanni Rotondo (FG) pertanto in Zona 3 ed ad un'altezza sul livello del mare pari ad $a_s = 180$ m.s.l.m., pertanto:

$$q_{sk} = 1,00 \text{ kN/m}^2$$

μ_i Coefficiente di forma della copertura

I coefficienti di forma delle coperture dipendono dalla forma stessa della copertura e dall'inclinazione sull'orizzontale della stessa, nel caso in esame verrà considerato il caso di copertura a falda singola con inclinazione di 0° e di 60° .

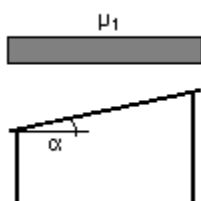


Tabella 3.4.II – Valori del coefficiente di forma

Coefficiente di forma	$0^\circ \leq \alpha \leq 30^\circ$	$30^\circ < \alpha < 60^\circ$	$\alpha \geq 60^\circ$
μ_1	0,8	$0,8 \cdot \frac{(60 - \alpha)}{30}$	0,0

Pertanto:

- $\mu_1 (0^\circ) = 0,8$
- $\mu_1 (60^\circ) = 0,00$

C_E Coefficiente di esposizione

Il coefficiente di esposizione tiene conto delle caratteristiche specifiche dell'area in cui sorge l'opera.

Tabella 3.4.I – Valori di C_E per diverse classi di topografia

Topografia	Descrizione	C_E
Battuta dai venti	Aree pianeggianti non ostruite esposte su tutti i lati, senza costruzioni o alberi più alti.	0,9
Normale	Aree in cui non è presente una significativa rimozione di neve sulla costruzione prodotta dal vento, a causa del terreno, altre costruzioni o alberi.	1,0
Riparata	Aree in cui la costruzione considerata è sensibilmente più bassa del circostante terreno o circondata da costruzioni o alberi più alti	1,1

Nel caso in esame si assume un coefficiente di esposizione pari ad 0,9.

C_t è il coefficiente termico

Il coefficiente termico tiene conto della riduzione del carico neve, a causa dello scioglimento della stessa, causato ad esempio dalla perdita di calore della struttura. Nel caso in esame la struttura non ha perdite di calore o sistemi di riscaldamento, pertanto il coefficiente termico è assunto pari ad 1.

Alla base di quanto descritto il carico neve risulta essere:

$$q_s = q_{sk} \cdot \mu_i \cdot C_E \cdot C_t = 1,00 \cdot 0,8 \cdot 0,9 \cdot 1 = 0,72 \frac{kN}{mq} = 0,0072 daN/cm^2$$

Come il peso proprio dei moduli, il carico neve verrà considerato agente sui montanti orizzontali, pertanto:

- $q_{s\_montanti\_estremi} = 0,0072 \cdot \left(\frac{130,3}{2}\right) = 0,46 daN/cm$
- $q_{s\_montanti\_interni} = 0,0072 \cdot 130,3 = 0,93 daN/cm$

5.1.3. Azione del vento

L'azione del vento viene definita secondo quanto descritto al paragrafo 3.3 delle Norme Tecniche per le costruzioni 2018. Secondo quanto definito nella **tabella 3.3.1 Valori dei parametri $v_{b,0}$, a_0** , k_a l'opera in oggetto ricade in **Zona 3 Puglia**.

Tab. 3.3.I - Valori dei parametri $v_{b,0}$, a_0 , k_s

Zona	Descrizione	$v_{b,0}$ [m/s]	a_0 [m]	k_s
1	Valle d'Aosta, Piemonte, Lombardia, Trentino Alto Adige, Veneto, Friuli Venezia Giulia (con l'eccezione della provincia di Trieste)	25	1000	0,40
2	Emilia Romagna	25	750	0,45
3	Toscana, Marche, Umbria, Lazio, Abruzzo, Molise, Puglia, Campania, Basilicata, Calabria (esclusa la provincia di Reggio Calabria)	27	500	0,37
4	Sicilia e provincia di Reggio Calabria	28	500	0,36
5	Sardegna (zona a oriente della retta congiungente Capo Teulada con l'Isola di Maddalena)	28	750	0,40
6	Sardegna (zona a occidente della retta congiungente Capo Teulada con l'Isola di Maddalena)	28	500	0,36
7	Liguria	28	1000	0,54
8	Provincia di Trieste	30	1500	0,50
9	Isole (con l'eccezione di Sicilia e Sardegna) e mare aperto	31	500	0,32



Considerando un'altezza di circa 30 metri s.l.m per il calcolo della velocità di base del vento si utilizza la seguente formula:

$$v_b = v_{b,0} = 27 \text{ m/sec}$$

Riferita ad un tempo di ritorno di 50 anni.

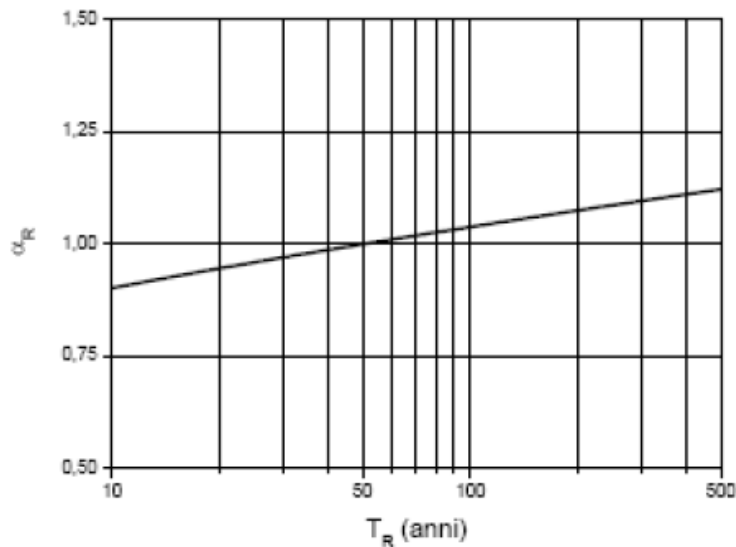
Considerando la tipologia di opera in termini di vita nominale e coefficienti d'uso definiti per per il calcolo dell'azione sismica, si assume un periodo di ritorno pari a:

$$T_r = 100 \text{ anni}$$

Secondo quanto prescritto al paragrafo C3.3.2 Circolare Ministero delle infrastrutture e dei trasporti 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" (Gazzetta Ufficiale 11/2/2019, n. 35 - Suppl. ord. n. 5)" si ottiene che la velocità di riferimento del vento per un generico periodo di ritorno è:

$$v_b(T_r) = \alpha_R \cdot v_r$$

Dove α_R è un coefficiente descritto dalla figura sottostante e dall'espressione seguente:



$$\alpha_R = 0,75 \sqrt{1 - 0,2 \cdot \ln \left[-\ln \left(1 - \left(\frac{1}{T_R} \right) \right) \right]}$$

Essendo il tempo di ritorno pari a 100 anni il coefficiente α_R risulta essere pari a 1,04, pertanto la velocità di riferimento del vento risulta essere pari a:

$$v_r = 27 \cdot 1,04 = 28,06 \text{ m/s}$$

In accordo al paragrafo 3.3.4 delle norme tecniche per le costruzioni la pressione del vento è data dalla seguente espressione:

$$p = q_r \cdot c_e \cdot c_p \cdot c_d$$

Dove:

- $q_r = \frac{1}{2} \cdot \rho \cdot v_r^2$ è la pressione cinetica di riferimento;
- v_r è la velocità di riferimento considerata su un valore medio di 10 minuti a 10 metri ddi altezza dal suolo;
- ρ è la densità dell'aria assunta convenzionalmente pari a $1,25 \text{ kg/m}^3$

$$q_r = \frac{1}{2} \cdot 1,25 \cdot (v_{b,0} \cdot c_r) = \frac{1}{2} \cdot 1,25 \cdot (28,06^2) = 492,08 \text{ N/m}^2$$

- c_d è il coefficiente dinamico assunto pari ad 1;
- c_e è il coefficiente di esposizione calcolato in accordo al par. 3.3.7 NTC18 secondo la formula:

$$c_e(z) = k_r^2 c_t \ln \left(\frac{z}{z_0} \right) \left[7 + c_t \ln \left(\frac{z}{z_0} \right) \right] \quad \text{per } z > z_{min}$$

- c_t è il coefficiente di topografia assunto pari ad 1 in accordo al paragrafo 3.3.7. delle NTC18: Dove, considerando un'altezza sul livello del mare di circa 30 metri, una distanza dalla costa di 13 km ed una classe di rugosità del terreno di tipo D:

Tab. 3.3.III - Classi di rugosità del terreno

Classe di rugosità del terreno	Descrizione
A	Aree urbane in cui almeno il 15% della superficie sia coperto da edifici la cui altezza media superi i 15 m
B	Aree urbane (non di classe A), suburbane, industriali e boschive
C	Aree con ostacoli diffusi (alberi, case, muri, recinzioni,...); aree con rugosità non riconducibile alle classi A, B, D
D	a) Mare e relativa fascia costiera (entro 2 km dalla costa); b) Lago (con larghezza massima pari ad almeno 1 km) e relativa fascia costiera (entro 1 km dalla costa) c) Aree prive di ostacoli o con al più rari ostacoli isolati (aperta campagna, aeroporti, aree agricole, pascoli, zone paludose o sabbiose, superfici innevate o ghiacciate, ...)

L'assegnazione della classe di rugosità non dipende dalla conformazione orografica e topografica del terreno. Si può assumere che il sito appartenga alla Classe A o B, purché la costruzione si trovi nell'area relativa per non meno di 1 km e comunque per non meno di 20 volte l'altezza della costruzione, per tutti i settori di provenienza del vento ampi almeno 30°. Si deve assumere che il sito appartenga alla Classe D, qualora la costruzione sorga nelle aree indicate con le lettere a) o b), oppure entro un raggio di 1 km da essa vi sia un settore ampio 30°, dove il 90% del terreno sia del tipo indicato con la lettera c). Laddove sussistano dubbi sulla scelta della classe di rugosità, si deve assegnare la classe più sfavorevole (l'azione del vento è in genere minima in Classe A e massima in Classe D).

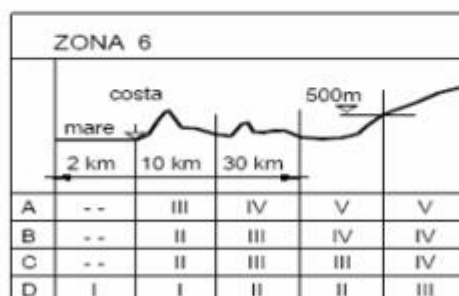
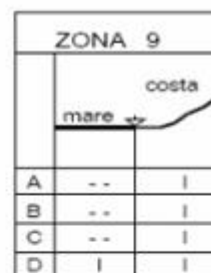
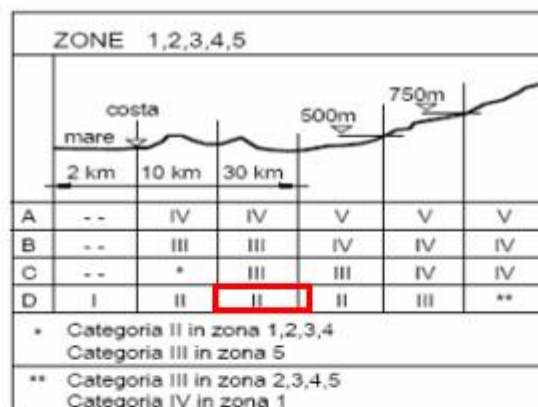


Fig. 3.3.2 - Definizione delle categorie di esposizione

Tabella 3.3.II – Parametri per la definizione del coefficiente di esposizione

Categoria di esposizione del sito	k_r	z_0 [m]	z_{min} [m]
I	0,17	0,01	2
II	0,19	0,05	4
III	0,20	0,10	5
IV	0,22	0,30	8
V	0,23	0,70	12

Si Ottengono i seguenti parametri per la determinazione del coefficiente di esposizione:

- $k_r = 0.19$
- $z_0 = 0.05 \text{ m}$
- $z_{min} = 4 \text{ m}$

Da cui, considerando un altezza massima dal piano campagna corrispondente alla massima inclinazione dei Tracker si ha che $z=4,30 \text{ m}$, pertanto:

$$c_e(z) = 0,20^2 \cdot 1 \cdot \ln\left(\frac{4,30}{0,05}\right) \left[7 + 1 \cdot \ln\left(\frac{4,30}{0,05}\right) \right] = 1,54$$

Pertanto, la pressione del vento è pari a:

$$p = q_r \cdot c_e \cdot c_p \cdot c_d = 492,80 \cdot 1,84 \cdot 1 \cdot 1 = 758,32 \text{ N/m}^2 = 0,00758 \text{ daN/cm}^2$$

Conformemente a quanto indicato a nella CM 21/01/2019 “Istruzioni per l’Applicazione dell’Aggiornamento della Norme tecniche per le Costruzioni di cui al Decreto Ministeriale 17/01/2018”, al paragrafo rif. C3.3.8.2.1, per il vento spirante in direzione ortogonale alla linea di colmo sono state considerate quattro combinazioni di carico descritte dalle norme:

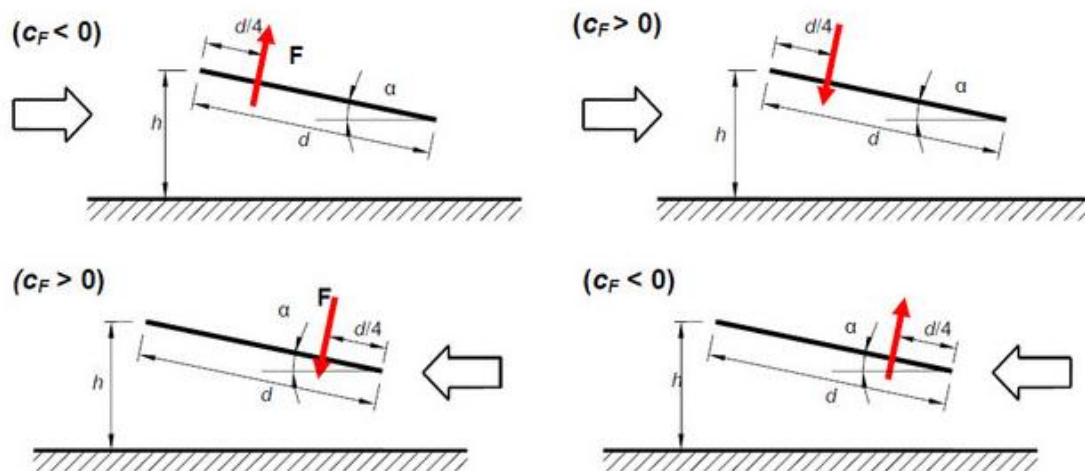


Figura 4 : configurazione forze tettoie a falda singola.

DIREZIONE VENTO	DEL	INCLINAZIONE	Cf
Y+		0°	0,2
Y+		0°	-0,5
Y-		60°	1.4
Y-		60°	-1.4

Considerando, come superficie agente del vento quella di 2 moduli fotovoltaici in direzione ortogonale si ottiene quindi il valore della forza nelle quattro combinazioni:

$$F = q_p \cdot L^2 \cdot c_F = 0,00758 \cdot (130.3 \cdot 435.4) \cdot 0.2 = 86,01 \text{ daN}$$

$$F = q_p \cdot L^2 \cdot c_F = 0,00758 \cdot (130.3 \cdot 435.4) \cdot -0.5 = -215,02 \text{ daN}$$

$$F = q_p \cdot L^2 \cdot c_F = 0,00758 \cdot (130.3 \cdot 435.4) \cdot 1.4 = 602,04 \text{ daN}$$

$$F = q_p \cdot L^2 \cdot c_F = 0,00758 \cdot (130.3 \cdot 435.4) \cdot -1.4 = -602,04 \text{ daN}$$

Sul modello di calcolo, Tali forze sono state distribuite distribuite sui montanti di collegamento con i moduli come carichi distribuiti.

5.1.4. Azione Sismica

Per la determinazione dell'azione sismica si è fatto riferimento al paragrafo 3.2 del D.M. Infrastrutture 17/01/2018 "Norme Tecniche per le Costruzioni". Le opere oggetto della presente

relazione sono ubicate nel comune di Ferrandina, provincia di Matera. Le coordinate Geografiche (Latitudine e Longitudine), utilizzate per definire l'azione sismica sono: LAT 40,42273 e LONG. 16,468537.

In base a quanto riportato nella "Relazione Geologica" del codesto progetto si è considerata una categoria del suolo **tipo B ed una categoria topografica T1 "Superficie pianeggiante, pendii e rilievi isolati con inclinazione $i < 15^\circ$ "**.

Sulla base di questi parametri, latitudine e longitudine, categoria del terreno e categoria topografica, è possibile determinare gli spettri di risposta elastici secondo le seguenti espressioni:

- Componente Orizzontale

$$\begin{aligned}
 0 \leq T < T_B & \quad S_e(T) = a_g \cdot S_l \cdot F_o \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right] \\
 T_B \leq T < T_C & \quad S_e(T) = a_g \cdot S_l \cdot F_o \\
 T_C \leq T < T_D & \quad S_e(T) = a_g \cdot S_l \cdot F_o \left(\frac{T_C}{T} \right) \\
 T_D \leq T & \quad S_e(T) = a_g \cdot S_l \cdot F_o \left(\frac{T_C T_D}{T^2} \right)
 \end{aligned} \tag{3.2.4}$$

Per le strutture oggetto della presente relazione viene considerato un comportamento strutturale non dissipativo. Nel caso di comportamento non dissipativo si adottano unicamente i modelli lineari. Secondo il paragrafo 7.3.2 Analisi statica o dinamica del DM 17/01/2018, il metodo d'analisi lineare di riferimento per determinare gli effetti dell'azione sismica, sia su sistemi dissipativi sia su sistemi non dissipativi, è l'analisi modale con spettro di risposta o "analisi lineare dinamica". In essa l'equilibrio è trattato dinamicamente e l'azione sismica è modellata direttamente attraverso lo spettro di progetto definito al paragrafo 3.2.3.4 Spettri di progetto per gli stati limite di operatività del DM 17/01/2018 (struttura non dissipativa) per cui "... lo spettro di progetto da utilizzare sia per le componenti orizzontali che per la componente verticale, è lo spettro elastico corrispondente, riferito alla probabilità di superamento nel periodo di riferimento P considerata ". Il tempo di ritorno dell'azione sismica, corrispondente agli stati limite sismici da considerare, dipendono da i seguenti parametri:

- Vita nominale

La vita nominale di progetto di un'opera è convenzionalmente definita come il numero di anni nel quale è previsto che l'opera, soggetta a manutenzione, mantenga specifici livelli prestazionali. Per le strutture oggetto della presente relazione si adotterà una vita nominale pari a 50 anni.

Tab. 2.4.I – Valori minimi della Vita nominale V_N di progetto per i diversi tipi di costruzioni

TIPI DI COSTRUZIONI		Valori minimi di V_N (anni)
1	Costruzioni temporanee e provvisorie	10
2	Costruzioni con livelli di prestazioni ordinari	50
3	Costruzioni con livelli di prestazioni elevati	100

- Classi d'uso

In riferimento alle conseguenze di interruzione di operatività o di un eventuale collasso, le norme tecniche per le costruzioni suddividono le strutture in 4 differenti classi d'uso. Nel caso in esame la classe d'uso considerata è la **IV**:

“Costruzioni con funzioni pubbliche o strategiche importanti, anche con riferimento alla gestione della protezione civile in caso di calamità. Industrie con attività particolarmente pericolose per l'ambiente. Reti viarie di tipo A o B, di cui al DM 5/11/2001, n. 6792, “Norme funzionali e geometriche per la costruzione delle strade”, e di tipo C quando appartenenti ad itinerari di collegamento tra capoluoghi di provincia non altresì serviti da strade di tipo A o B. Ponti e reti ferroviarie di importanza critica per il mantenimento delle vie di comunicazione, particolarmente dopo un evento sismico. Dighe connesse al funzionamento di acquedotti e a impianti di produzione di energia elettrica.”

- Periodo di riferimento per l'azione sismica

Il periodo di riferimento per l'azione sismica si definisce a partire dalle seguente relazione:

$$V_R = V_N \cdot C_U$$

Dove C_U è definito a partire dalla classe d'uso dell'opera ed è tabulato nella tabella seguente:

Tab. 2.4.II – Valori del coefficiente d'uso C_U

CLASSE D'USO	I	II	III	IV
COEFFICIENTE C_U	0,7	1,0	1,5	2,0

Pertanto, in base alle considerazioni fatte il periodo di riferimento è:

$$V_R = 100 \text{ anni}$$

A questo punto, per poter definire la forma spettrale, in funzione della probabilità di superamento del periodo di riferimento V_R , si devono determinare i seguenti parametri di base:

- a_g accelerazione orizzontale massima al sito;
- F_0 valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;
- T_c^* periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

Tali parametri sono stati forniti nella “Relazione Geologica” del progetto in oggetto. Si riportano di seguito gli spettri di risposta elastici degli atati limite considerati.

6. COMBINAZIONE DELLE AZIONI

Il progetto e la verifica di tutti gli elementi strutturali verranno eseguiti mediante il Metodo Semiprobabilistico agli Stati Limite. Per quanto concerne le verifiche agli stati limite ultimi (SLU) e quelle agli stati limite d’esercizio (SLE), le condizioni elementari di carico vengono tra loro combinate in modo da determinare le sollecitazioni più sfavorevoli.

Le combinazioni di carico che verranno considerate nel calcolo delle sollecitazioni rispettano le prescrizioni fornite dalle NTC 2018.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni (2.5.3 – NTC2018).

Combinazione fondamentale SLU

$$gG1 \times G1 + gG2 \times G2 + gP \times P + gQ1 \times Qk1 + gQ2 \times y02 \times Qk2 + gQ3 \times y03 \times Qk3 + \dots$$

Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + y02 \times Qk2 + y03 \times Qk3 + \dots$$

Combinazione frequente SLE

$$G1 + G2 + P + y11 \times Qk1 + y22 \times Qk2 + y23 \times Qk3 + \dots$$

Combinazione quasi permanente SLE

$$G1 + G2 + P + y21 \times Qk1 + y22 \times Qk2 + y23 \times Qk3 + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all’azione sismica E

$$E + G1 + G2 + P + y21 \times Qk1 + y22 \times Qk2 + \dots$$

Dove:

- Azioni Permanenti (G);
- Azioni Variabili (Q);
- Azioni di Precompressione (P);
- Azioni Sismiche (E);

I valori dei coefficienti che tengono conto della non contemporaneità dei massimi valori delle azioni sono dati dalla seguente tabella:

Destinazione d'uso/azione	y0	y1	y2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota <= 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Tabella 1: NTC 2018 Tabella 2.5.I

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

I valori dei coefficienti parziali di sicurezza g_{Gi} e g_{Gi} sono dati in § 2.6.1, Tab. 2.6.I:

		Coefficiente	EQU	A1	A2
		gf			
Carichi permanenti	Favorevoli	gG1	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0

		Coefficiente gf	EQU	A1	A2
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	gG2	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	gQi	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Tabella 2: NTC 2018 Tabella 2.6.I

7. MODELLO DI CALCOLO

Al fine di valutare le sollecitazioni agenti sulla struttura e di effettuare le verifiche strutturali richieste dalle vigenti norme tecniche per le costruzioni, la struttura è stata modellata in un programma di calcolo strutturale. Gli elementi che costituiscono la struttura sono stati modellati con elementi tipo "D2". Il Software utilizzato per la modellazione strutturale è PRO_SAP.

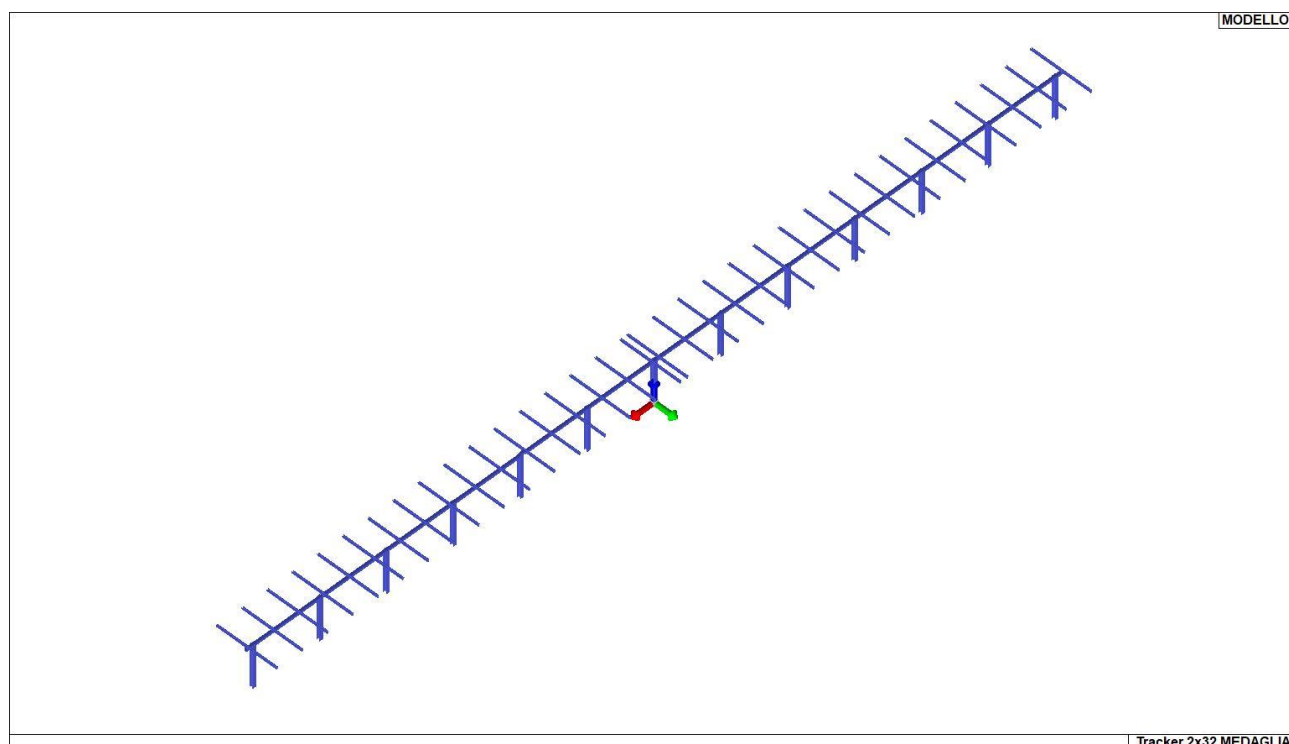


Figura 5 : Vista Solida - Moduella strutturale Tracker 2 x 32

7.1. Modellazione delle Sezioni

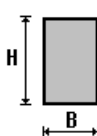
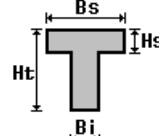
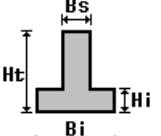
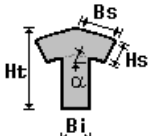
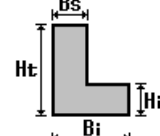
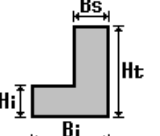
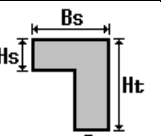
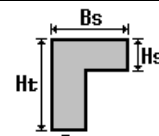
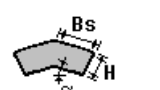
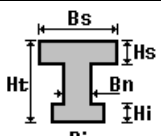
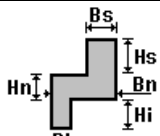
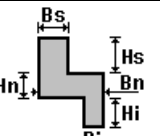
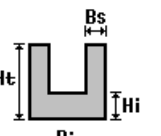
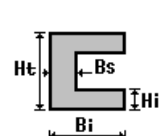
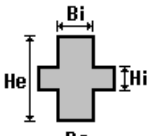
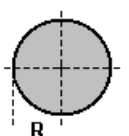
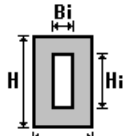
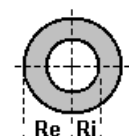
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

					
rettangolare	a T	a T rovescia	a T di colmo	a L	a L specchiata
					
a L specchiata rovescia	a L rovescia	a L di colmo	a doppio T	a quattro specchiata	a quattro
					
a U	a C	a croce	circolare	rettangolare cava	circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilati.

Per quanto concerne le sezioni di tipo generico (tipo 1.):

i valori dimensionali con prefisso B sono riferiti all'asse 2

i valori dimensionali con prefisso H sono riferiti all'asse 3

Con riferimento al Documento di Affidabilità "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

7.2. Modellazione dei Nodi

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z). Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

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

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

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

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

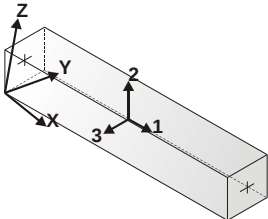
Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

7.3. Modellazione degli elementi Trave "D2"

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

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

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

	orientamento elementi 2D non verticali		orientamento elementi 2D verticali

In particolare per ogni elemento viene indicato in tabella:

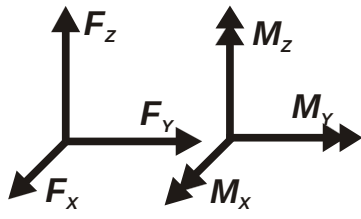
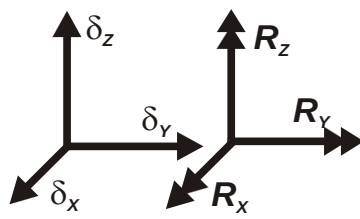
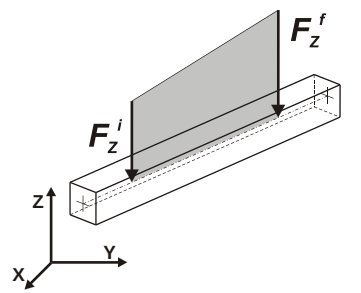
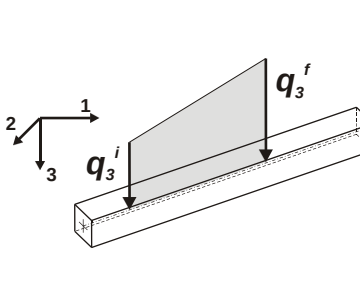
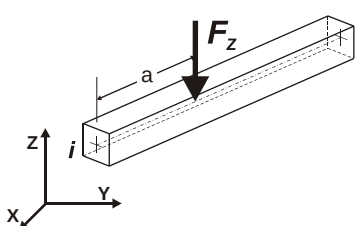
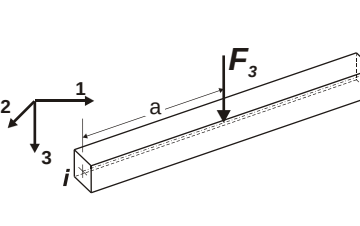
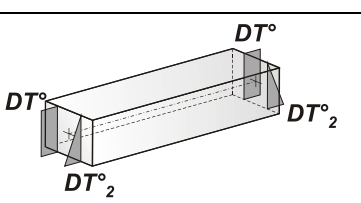
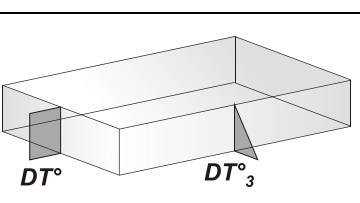
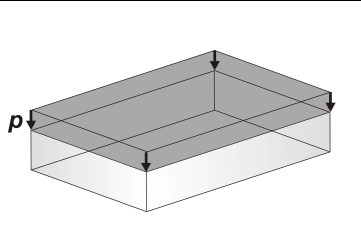
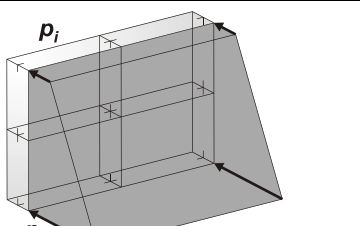
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione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

7.4. Modellazione delle Azioni

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	carico concentrato nodale
	6 dati (forza F_x , F_y , F_z , momento M_x , M_y , M_z)
2	spostamento nodale impresso
	6 dati (spostamento T_x , T_y , T_z , rotazione R_x , R_y , R_z)

3	carico distribuito globale su elemento tipo trave 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	variazione termica applicata ad elemento tipo trave 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	carico di pressione uniforme su elemento tipo piastra 1 dato (pressione)
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)
11	carico variabile generale su elementi tipo trave e piastra 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	gruppo di carichi con impronta su piastra 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)

 Carico concentrato nodale	 Spostamento impresso
 Carico distribuito globale	 Carico distribuito locale
 Carico concentrato globale	 Carico concentrato locale
 Carico termico 2D	 Carico termico 3D
 Carico pressione uniforme	 Carico pressione variabile

7.5. Accettabilità dei risultati ottenuti e dichiarazione ai sensi del DM 17/01/18

Analisi e verifiche svolte con l'ausilio di codici di calcolo

Il sottoscritto Ing. Leonardo Sblendido, in qualità di calcolatore delle opere in progetto, dichiara quanto segue.

Tipo di analisi svolta

L'analisi strutturale e le verifiche sono condotte con l'ausilio di un codice di calcolo automatico. La verifica della sicurezza degli elementi strutturali è stata valutata con i metodi della scienza delle costruzioni.

Il calcolo della fondazione viene eseguito secondo le seguenti fasi:

- individuazione della classe d'uso dell'opera e della sua vita utile;
- definizione delle azioni agenti in condizioni statiche e dinamiche attraverso l'individuazione delle condizioni di carico;
- predisposizione delle combinazioni di carico (con i relativi coefficienti di combinazione) allo SLU e SLE;
- stima dell'involuppo delle azioni agenti;
- predimensionamento delle membrature strutturali;
- applicazione dei criteri della gerarchia delle resistenze e scelta delle soluzioni strutturali che impediscono rotture fragili;
- verifica della funzionalità agli SLE delle strutture progettate.

L'analisi strutturale sotto le azioni sismiche è condotta con il metodo dell'analisi dinamica secondo le disposizioni del capitolo 7 del DM 17/01/2018.

La verifica delle sezioni degli elementi strutturali è eseguita con il metodo degli Stati Limite. Le combinazioni di carico adottate sono esaustive relativamente agli scenari di carico più gravosi cui l'opera sarà soggetta.

Origine e caratteristiche dei codici di calcolo

Titolo PRO_SAP PROfessionalStructural Analysis Program

Versione PROFESSIONAL (build 2019-01-184)

Produttore 2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara

Affidabilità dei codici di calcolo

Un attento esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione.

È possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: <http://www.2si.it/Software/Affidabilità.htm>

Modalità di presentazione dei risultati

La relazione di calcolo strutturale presenta i dati di calcolo tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità. La relazione di calcolo illustra in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare.

Informazioni generali sull'elaborazione

Il software prevede una serie di controlli automatici che consentono l'individuazione di errori di modellazione, di non rispetto di limitazioni geometriche e di armatura e di presenza di elementi non verificati. Il codice di calcolo consente di visualizzare e controllare, sia in forma grafica che tabellare, i dati del modello strutturale, in modo da avere una visione consapevole del comportamento corretto del modello strutturale.

Giudizio motivato di accettabilità dei risultati

I risultati delle elaborazioni sono stati sottoposti a controlli dal sottoscritto. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali. Inoltre sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni.

In base a quanto sopra, io sottoscritto asserisco che l'elaborazione è corretta ed idonea al caso specifico, pertanto i risultati di calcolo sono da ritenersi validi ed accettabili.

8. SINTESI DEI RISULTATI

Le verifiche strutturali sono state condotte in accordo a quanto descritto dal D.M. infrastrutture del 17 Gennaio 2018 per le strutture in Acciaio. In particolare è stato verificato che la struttura oggetto della presente analisi soddisfa i requisiti di sicurezza delle costruzioni con struttura in acciaio. Le verifiche sono state condotte in accordo a quanto descritto al paragrafo 4.2. e 7.5. delle Norme tecniche per le costruzioni.

Sulla struttura, sono state condotte tutte le verifiche indicate al capitolo 6 ed al capitolo 7 delle NTC18. Si riportano di seguito le principali verifiche effettuate. I risultati completi dell'analisi strutturale è riportato nell'allegato 1 della presente relazione.

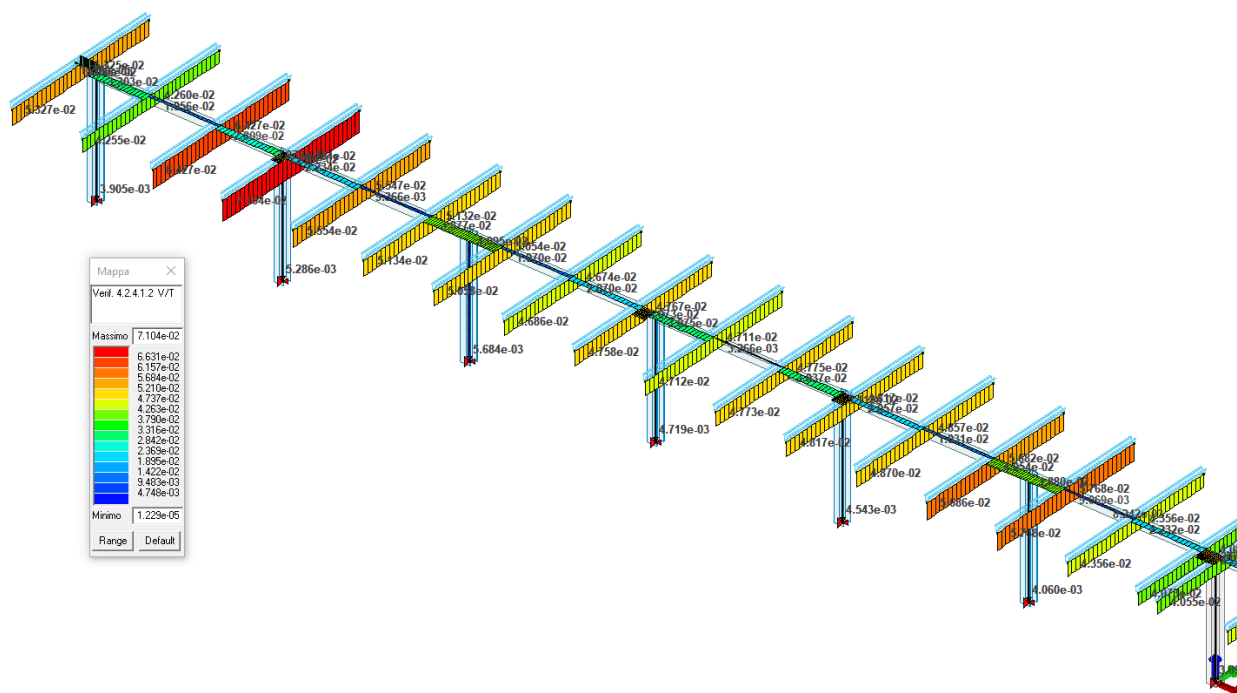


figura 6 : Verifica V/T

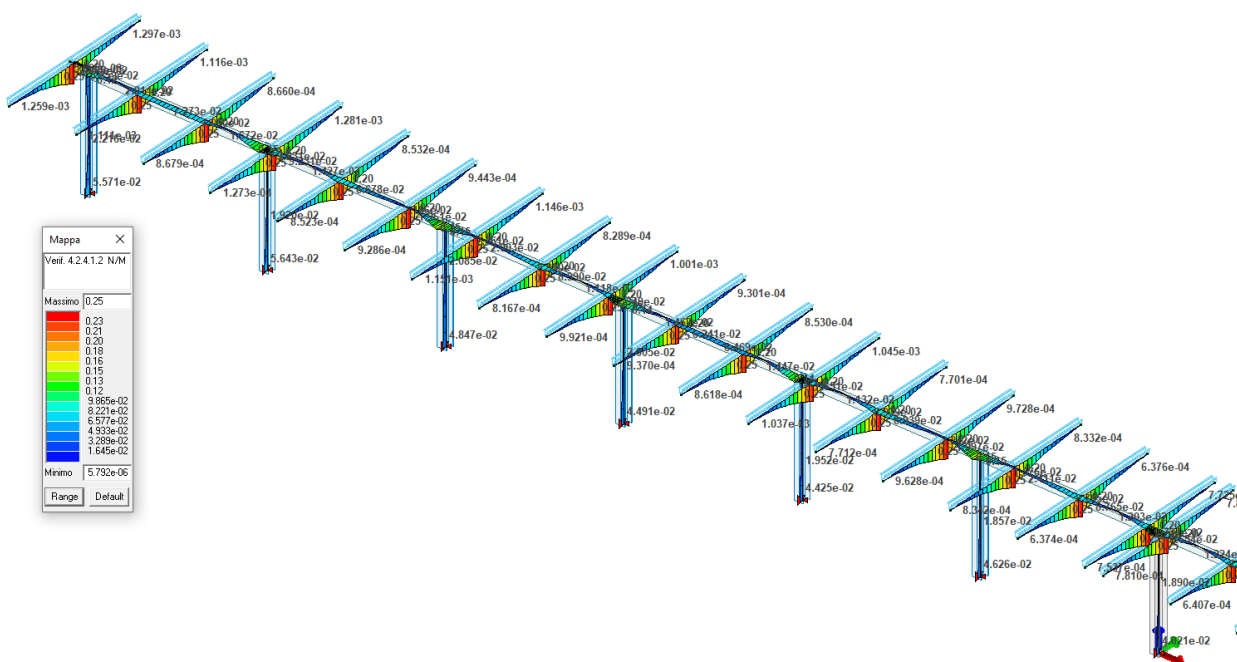


figura 7 : Verifica M / N

Le verifiche illustrate nelle immagini precedenti risultano essere soddisfatte quando il rapporto indicato risulta essere minore dell'unità. Alla base di Quanto Discusso, tutti gli elementi strutturali analizzati risultano soddisfare le verifiche per i quali sono stati progettati

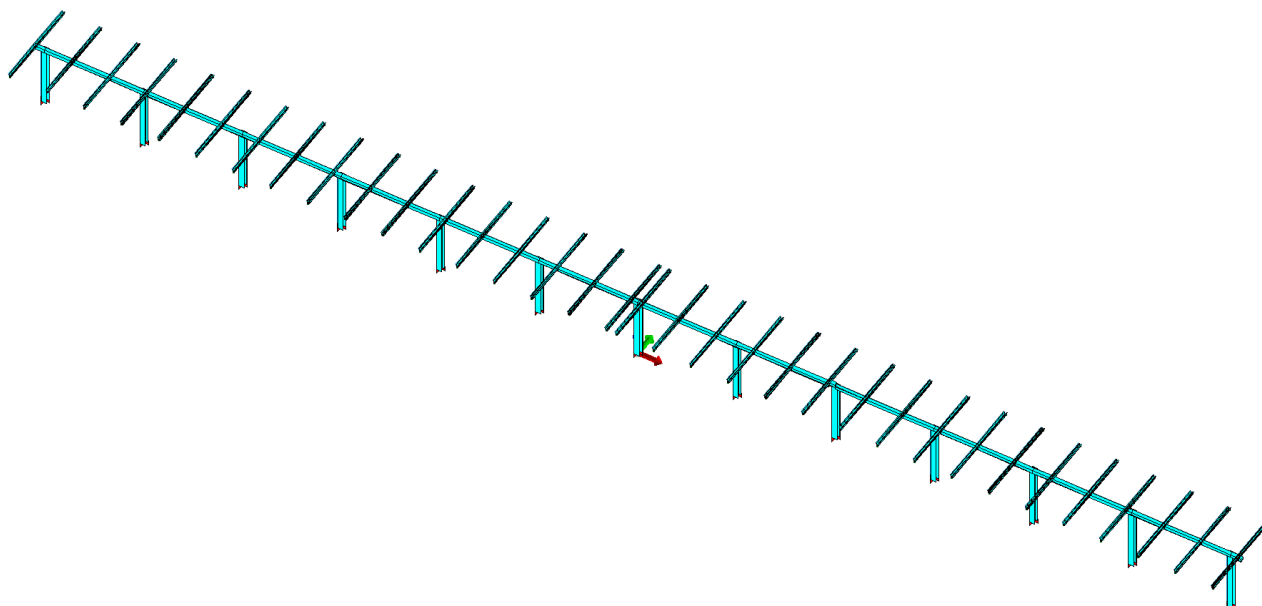


figura 8 : Elementi Verificati in colore Ciano

9. RECINZIONI E CANCELLI

Le aree di impianto del progetto oggetto della presente relazione saranno delimitate da una recinzione in acciaio a basso impatto visivo.

La recinzione sarà in pali in acciaio zincato infissi nel terreno e collegati tra loro attraverso morsetti doppi ed una rete a maglia sciolta di spessore variabile fissata ai pali mediante tensori in acciaio. Lungo la recinzione verranno lasciate delle aperture al fine di consentire il passaggio della piccola fauna disposte ogni 50 metri lungo l'estensione della recinzione. La recinzione avrà un'altezza fuori terra di 2 metri e garantisce un basso impatto e garantirà un'integrità ambientale. Gli accessi alle aree di impianto saranno costituiti da cancelli a doppia anta di larghezza 6 metri in acciaio Zincato. Tutti i pali della recinzione e dei cancelli saranno infissi nel terreno senza prevedere alcun basamento in calcestruzzo. Eventualmente, nei casi in cui l'infissione dei pali non garantisca la completa stabilità della recinzione si potrà stabilizzare mediante getto di calcestruzzo completamente interrato e senza alcun impatto.

10. CONVERSION UNIT

Le Cabine di Campo (Conversion Unit) saranno del tipo prefabbricato in pannelli tipo Sandwich, ancorate alle fondazioni integrate in cemento armato vibrato. Il produttore fornirà le conversion unit comprensive del sistema di fondazioni in calcestruzzo armato vibrato, del sistema di porte per gli

accessi, delle apparecchiature elettromeccaniche e della copertura impermeabilizzante. Si rimanda all'elaborato grafico "A.12.b.10_Disegni architettonici cabine elettriche-Cabine di Campo".



Figura 9: Conversion Unit Tipo

Tali cabine dovranno presentare una notevole rigidità strutturale ed una grande resistenza agli agenti esterni atmosferici che lo renderanno adatto all'uso anche in ambienti con atmosfera inquinata ed aggressiva. Essendo una struttura di tipo prefabbricato, sarà il produttore a verificare che tutte verifiche strutturali e geotecniche siano soddisfatte ai sensi del DM 17 Gennaio 2018.

11. CONCLUSIONI

Considerato quanto sopra le strutture risultano essere idonee allo scopo per le quali sono state progettate. Si precisa ancora una volta che il calcolo ha carattere preliminare, dovrà essere verificato in fase esecutiva considerando i carichi effettivamente trasmessi dalla sovrastruttura. Analogamente si rimandano le verifiche geotecniche di dettaglio alla fase esecutiva.

Il Tecnico

Ing. Leonardo Sblendido

ALLEGATO – 1 TABULATI DI CALCOLO

12. PREMESSA

La presente relazione di calcolo strutturale, in conformità al §10.1 del DM 17/01/18, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Nella presente parte sono riportati i principali elementi di inquadramento del progetto esecutivo riguardante le strutture, in relazione agli strumenti urbanistici, al progetto architettonico, al progetto delle componenti tecnologiche in generale ed alle prestazioni attese dalla struttura.

12.1. Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di MANFREDONIA (FG) (Regione PUGLIA)
	Località MANFREDONIA (FG)
	Longitudine 15.746, Latitudine 41.549
Numero di piani	Fuori terra
	Interrati
	le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di

Principali caratteristiche della struttura	
Struttura regolare in pianta	
Struttura regolare in altezza	
Classe di duttilità	
Travi: ricalate o in spessore	
Pilastrri	
Pilastrri in falso	
Tipo di fondazione	
Condizioni per cui è necessario considerare la componente verticale del sisma	

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
II	50.0	2.0	100.0

Fattore di struttura/comportamento

Il comportamento della struttura è stato valutato non dissipativo.

12.2. Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo "normativa di riferimento" è comunque presente l'elenco completo delle normative disponibili.

Progetto-verifica degli elementi

Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018

Azione sismica

Norma applicata per l' azione sismica	D.M. 17-01-2018

12.3. Azioni di progetto sulla costruzione

Nei capitoli "modellazione delle azioni" e "schematizzazione dei casi di carico" sono indicate le azioni sulla costruzioni.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico,dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti; le configurazioni studiate per la struttura in esame *sono risultate effettivamente esaustive per la progettazione-verifica*.

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

$K * u = F$ dove K = matrice di rigidezza

u = vettore spostamenti nodali

F = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

Elemento tipo TRUSS	(biella-D2)
Elemento tipo BEAM	(trave-D2)
Elemento tipo MEMBRANE	(membrana-D3)
Elemento tipo PLATE	(piastra-guscio-D3)
Elemento tipo BOUNDARY	(molla)
Elemento tipo STIFFNESS	(matrice di rigidezza)
Elemento tipo BRICK	(elemento solido)
Elemento tipo SOLAIO	(macro elemento composto da più membrane)

12.4. Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale

Carichi verticali	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

12.4.1. Informazioni sul codice di calcolo

Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-01-187)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi5451

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati

2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link:
<https://www.2si.it/it/prodotti/affidabilita/>

Modellazione della geometria e proprietà meccaniche:

nodi	130
elementi D2 (per aste, travi, pilastri...)	129
elementi D3 (per pareti, platee, gusci...)	0

elementi solaio	0
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	-2137.80
Xmax =	2137.80
Ymin =	-158.00
Ymax =	158.00
Zmin =	0.00
Zmax =	223.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastrì	SI
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	NO
Tipo di vincoli:	
Nodi vincolati rigidamente	SI
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

12.5. Modellazione delle azioni

Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte **“2.6. Azioni di progetto sulla costruzione”**.

12.6. Combinazioni e/o percorsi di carico

Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico

APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	NO
SLA (accidentale quale incendio)	NO

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura:

per l'analisi modale:

- periodi dei modi di vibrare della struttura
- masse eccitate dai singoli modi
- massa eccitata totale

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura
- reazioni vincolari (nel caso siano presenti nodi vincolati rigidamente)
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative
- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi

- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura):

- configurazioni deformate
- diagrammi e involucri delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni abnormi. Si può pertanto asserire che l'elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

12.7. Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

12.8. Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLE vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

12.9. RELAZIONE SUI MATERIALI

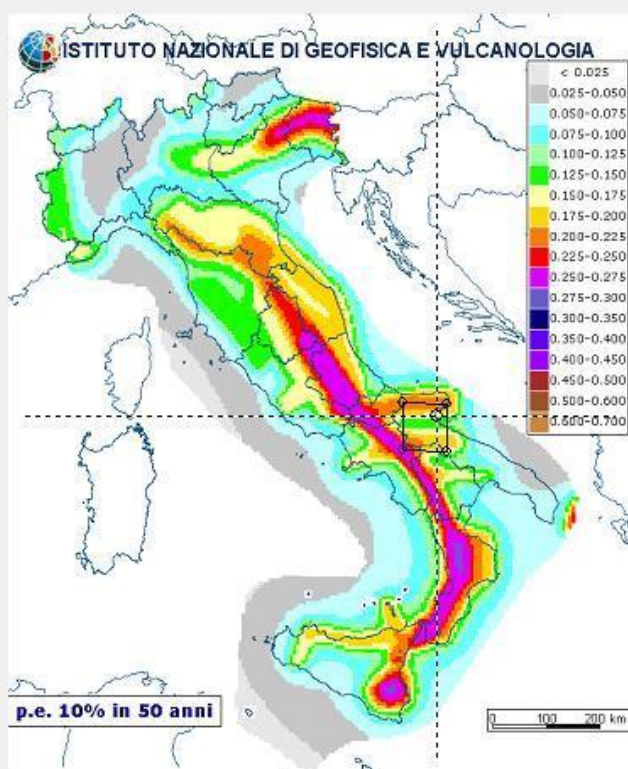
Il capitolo Materiali riportata informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

12.10. NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP. "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. D.M. LL.PP. 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".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
7. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
8. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
11. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
14. Ordinanza del Presidente del Consiglio dei Ministri 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" e successive modificazioni e integrazioni.
15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
21. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
22. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
23. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
25. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.

26. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
27. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
29. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
30. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi di calcolo semplificato per strutture di muratura non armata.
31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
32. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
34. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

NOTA il capitolo "normativa di riferimento": riporta l'elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO". Laddove nei capitoli successivi vengano richiamate norme antecedenti al DM 17.01.18 è dovuto o a progettazione simulata di edificio esistente.



Vertici della maglia elementare

Id nodo	Longitudine	Latitudine	Distanza [km]
30114	15.694	41.514	5.834
30115	15.761	41.512	4.309
29893	15.762	41.562	1.926
29892	15.696	41.564	4.472

Coordinate geografiche

Località: **MANFREDONIA (FG)**

Longitudine: 15.7462 Latitudine: 41.5493

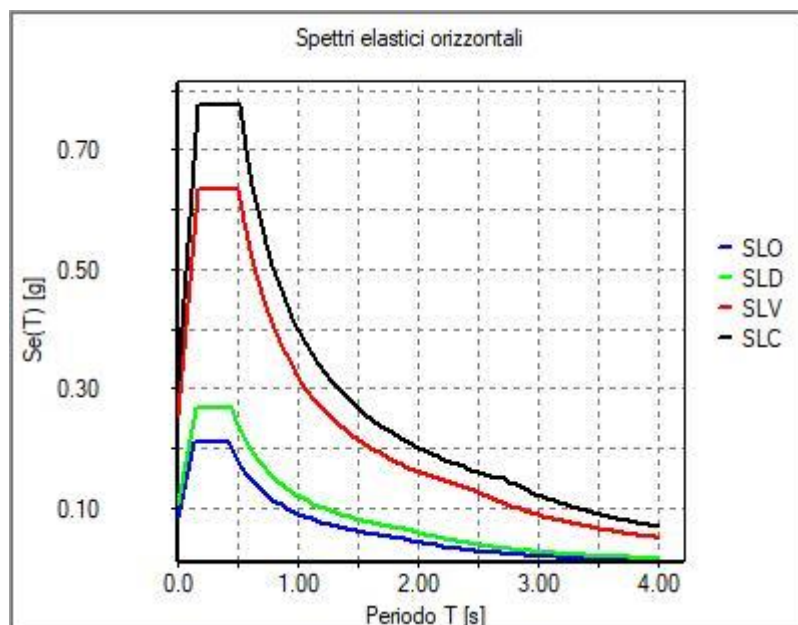
Parametri per le forme spettrali

	Pver	Tr	ag [g]	Fo	T*c
SLO	81	60	0.070	2.510	0.310
SLD	63	101	0.088	2.530	0.330
SLV	10	949	0.215	2.490	0.380
SLC	5	1950	0.278	2.480	0.390

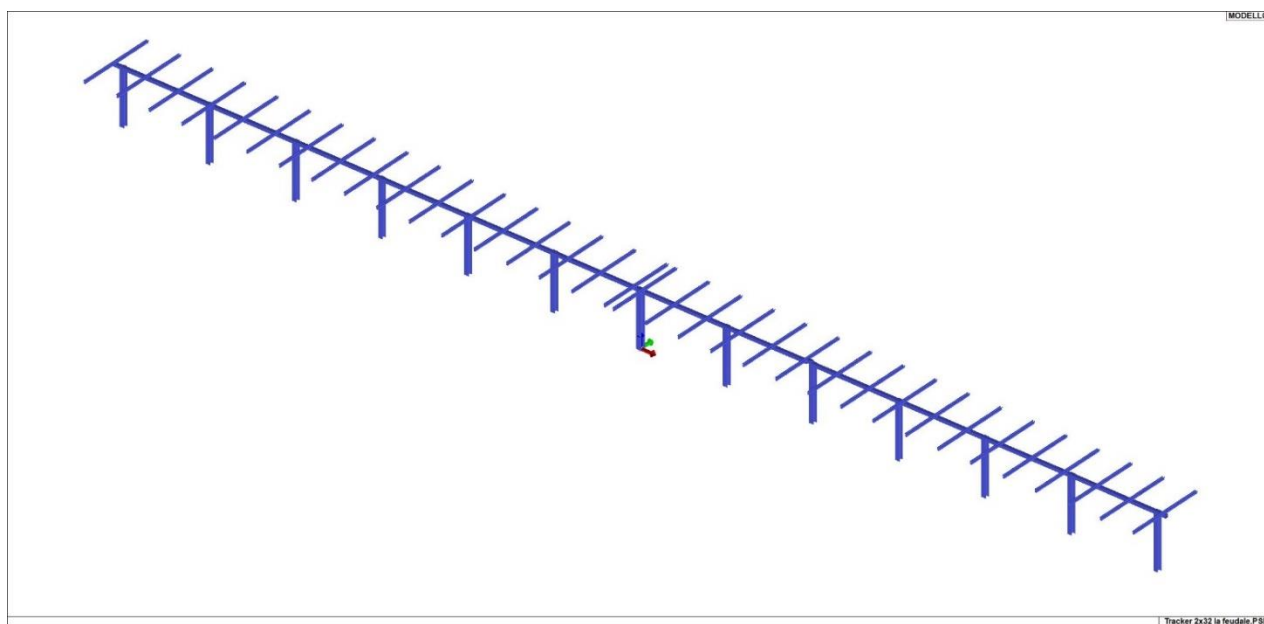
Periodo di riferimento per l'azione sismica

Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza per esistenti %
50	2	100	100

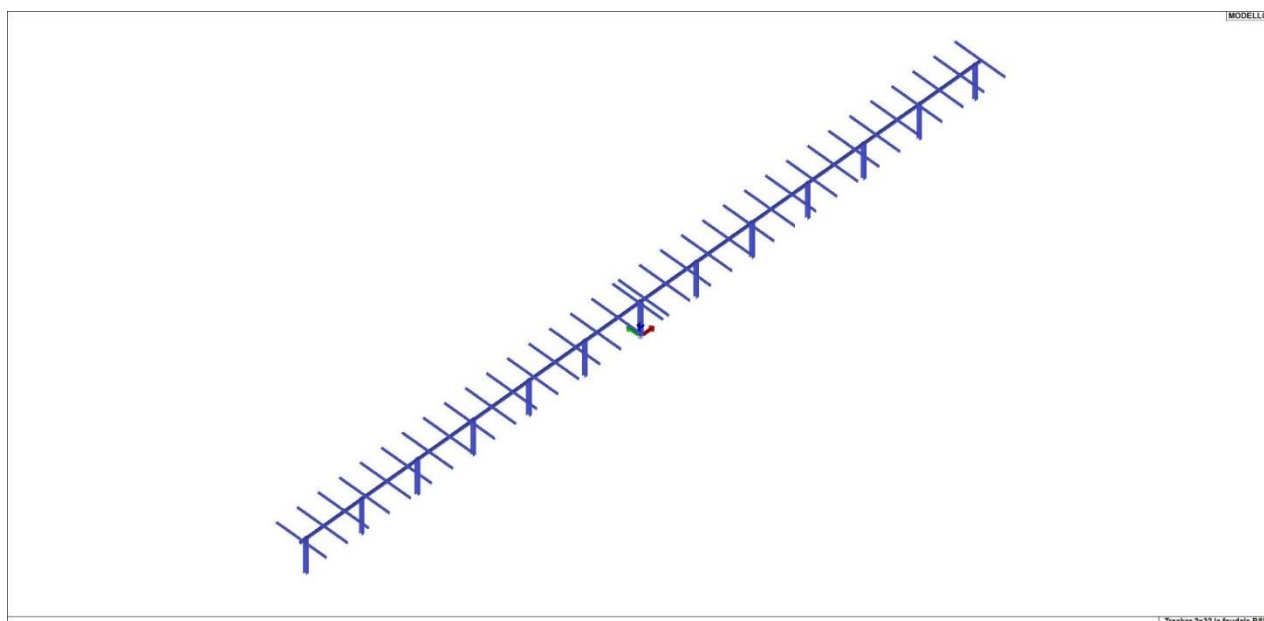
01_INT_PERICOLOSITA



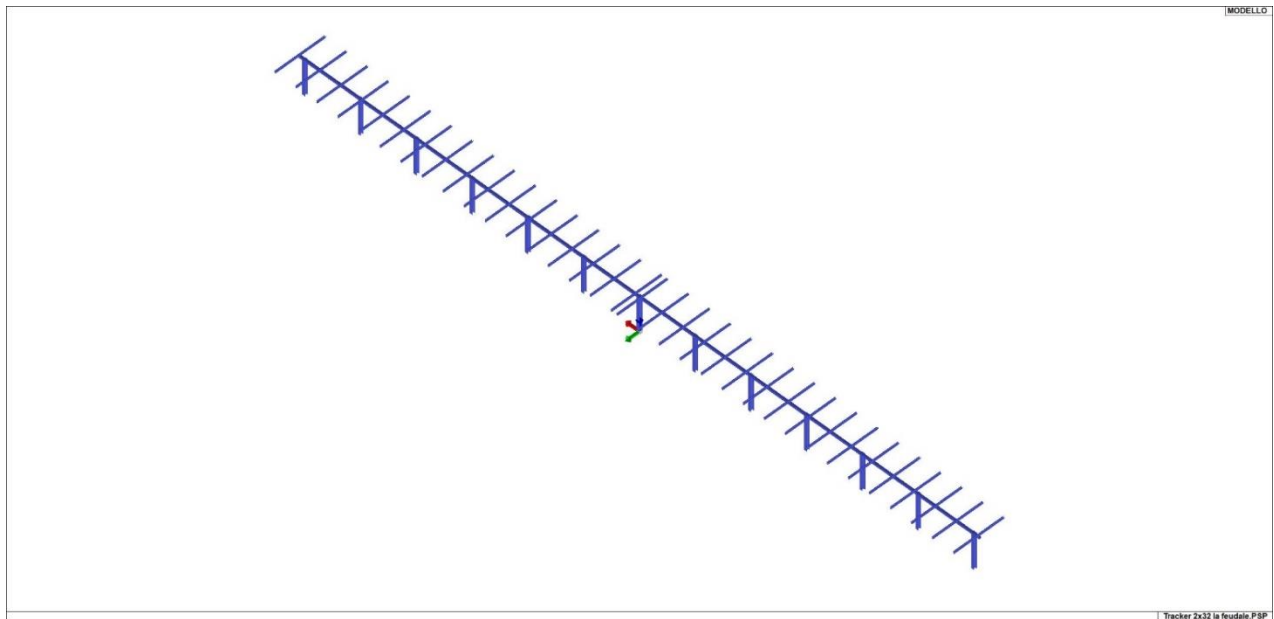
01_INT_SPETTRI_ELASTICI_O



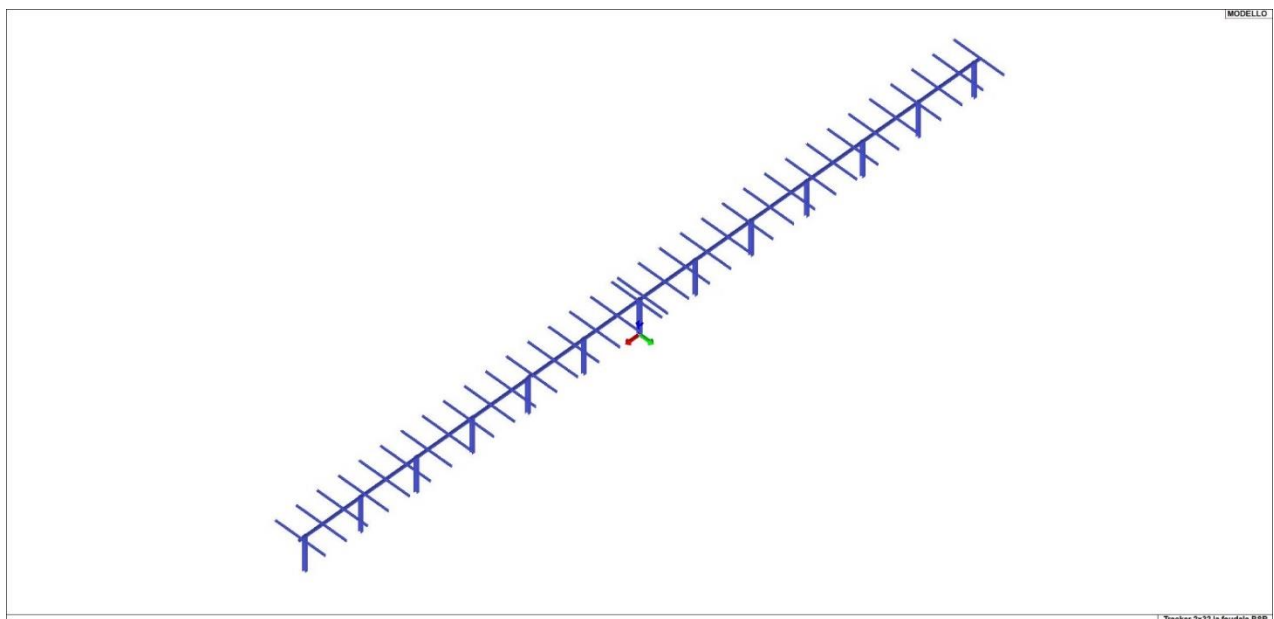
01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

13. CARATTERISTICHE MATERIALI UTILIZZATI

13.1. LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ν
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficiente di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1 cement
o
armato

Resistenza Rc	resistenza a compressione cubica
Resistenza fctm	resistenza media a trazione semplice
Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block

2 acciaio

Tensione ft	Valore della tensione di rottura
Tensione fy	Valore della tensione di snervamento
Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
Tensione ammissibile (>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm

3 muratura

Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
Incremento resistenza	Incremento conseguito in termini di resistenza
Incremento rigidezza	Incremento conseguito in termini di rigidezza
Resistenza f	Valore della resistenza a compressione
Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
Resistenza fh	Valore della resistenza a compressione orizzontale
Resistenza fb	Valore della resistenza a compressione dei blocchi
Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi

	Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale
	Resistenza fvlm	Valore della massima resistenza a taglio
	Resistenza fbt	Valore della resistenza a trazione dei blocchi
	Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
	Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
	Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	
	E0,05	Modulo di elasticità corrispondente ad un frattile del 5%
	Resistenza fc0	Valore della resistenza a compressione parallela
	Resistenza ft0	Valore della resistenza a trazione parallela
	Resistenza fm	Valore della resistenza a flessione
	Resistenza fv	Valore della resistenza a taglio
	Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
	Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
	Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
	Modulo E0,05	Modulo elastico parallelo caratteristico
	Lamellare	lamellare o massiccio

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO

73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI
74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

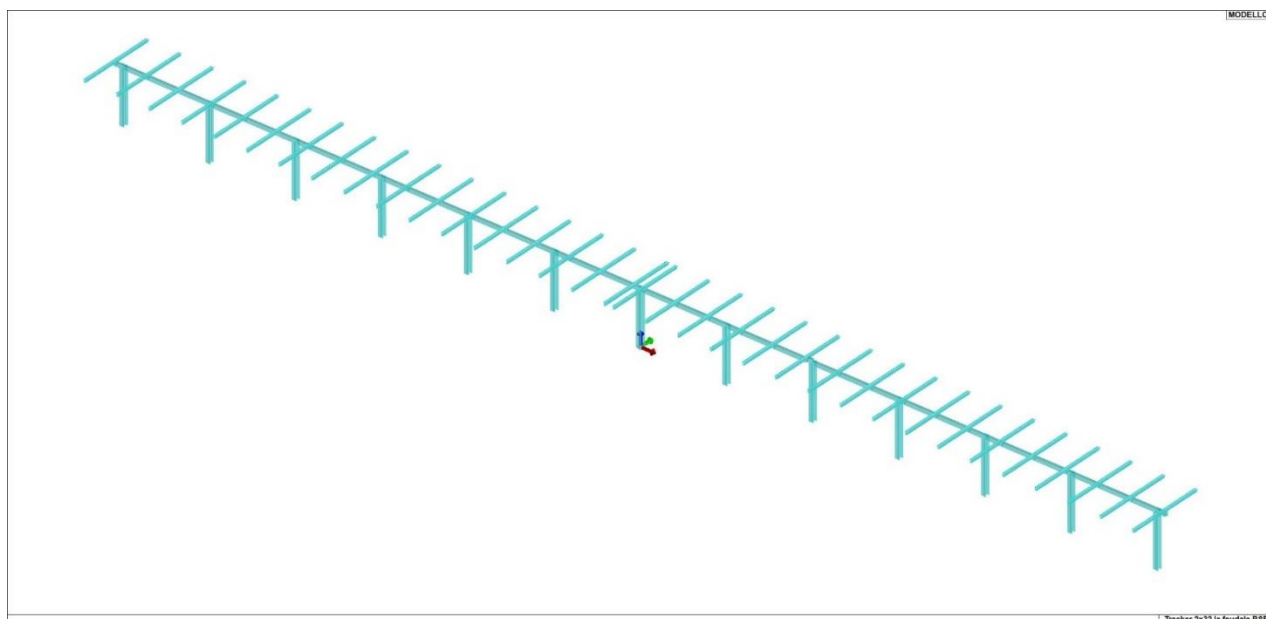
Test N°	Titolo
81	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
84	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA
86	VERIFICA NON SISMICA DELLE MURATURE (D.M. 87 TA)
87	VERIFICA NON SISMICA DELLE MURATURE (D.M. 2005 SL)
88	FATTORE DI STRUTTURA

Modellazione di strutture in legno

Test N°	Titolo
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5

91	FATTORE DI STRUTTURA
92	VERIFICHE EC5
93	SNELLEZZE EC5
94	VERIFICA AL FUOCO DI STRUTTURE IN LEGNO SECONDO EC5
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

Id	Tipo / Note	V. caratt. daN/cm2	V. medio daN/cm2	Young daN/cm2	Poisson	G daN/cm2	Gamma daN/cm3	Alfa	Altri
13	Acciaio Fe510 - S355-acciaio Fe510-S355			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	5100.0							
	Resistenza fd	3550.0							
	Resistenza fd (>40)	3150.0							
	Tensione ammissibile	2400.0							
	Tensione ammissibile (>40)	2100.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D2

Pilastracci acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
Metodo di calcolo 2-2	Assegnato					
2-2 Beta assegnato	2.00					

Pilastrici acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
2-2 Beta * L assegnato [cm]	0.0					
Metodo di calcolo 3-3	Assegnato					
3-3 Beta assegnato	2.00					
3-3 Beta * L assegnato [cm]	0.0					
1-1 Beta assegnato	1.00					
1-1 Beta * L assegnato [cm]	0.0					
Generalità						
Coefficiente gamma M0	1.05					
Coefficiente gamma M1	1.05					
Coefficiente gamma M2	1.25					
Effetti del 2 ordine	Si					
Momenti equivalenti	Si					
Usa condizioni I e II	Si					

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
3-3 Beta * L automatico	Si					
3-3 Beta assegnato	1.00					
3-3 Beta assegnato [cm]	0.0					
2-2 Beta * L automatico	Si					
2-2 Beta assegnato	1.00					
2-2 Beta * L assegnato [cm]	0.0					
1-1 Beta * L automatico	Si					
1-1 Beta assegnato	1.00					
1-1 Beta * L assegnato [cm]	0.0					
Generalità						
Coefficiente gamma M0	1.05					
Coefficiente gamma M1	1.05					
Coefficiente gamma M2	1.25					
Luce di taglio per GR [cm]	1.00					
Usa condizioni I e II	Si					
Momenti equivalenti	Si					

14. MODELLAZIONE DELLE SEZIONI

14.1. LEGENDA TABELLA DATI SEZIONI

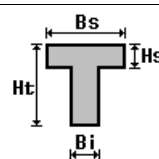
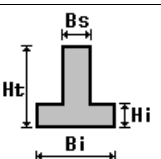
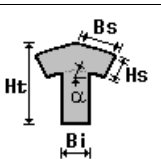
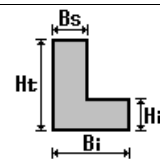
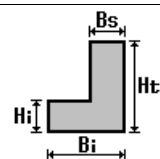
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

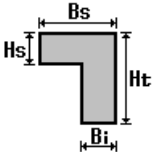
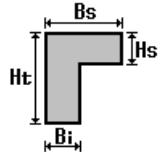
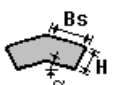
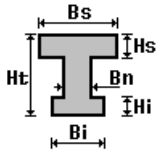
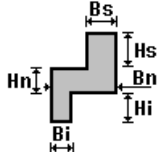
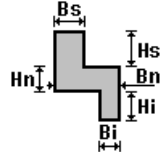
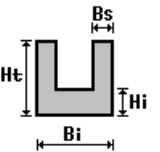
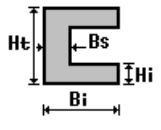
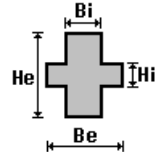
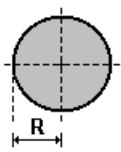
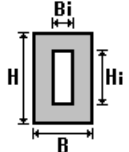
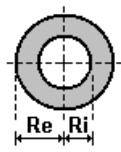
4. sezione di tipo generico
5. profilati semplici
6. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

					
rettangolare	a T	a T rovescia	a T di colmo	a L	a L specchiata

 a L specchiata rovescia	 a L rovescia	 a L di colmo	 a doppio T	 a quattro specchiata	 a quattro
 a U	 a C	 a croce	 circolare	 rettangolare cava	 circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilati.

Per quanto concerne le sezioni di tipo generico (tipo 1.):

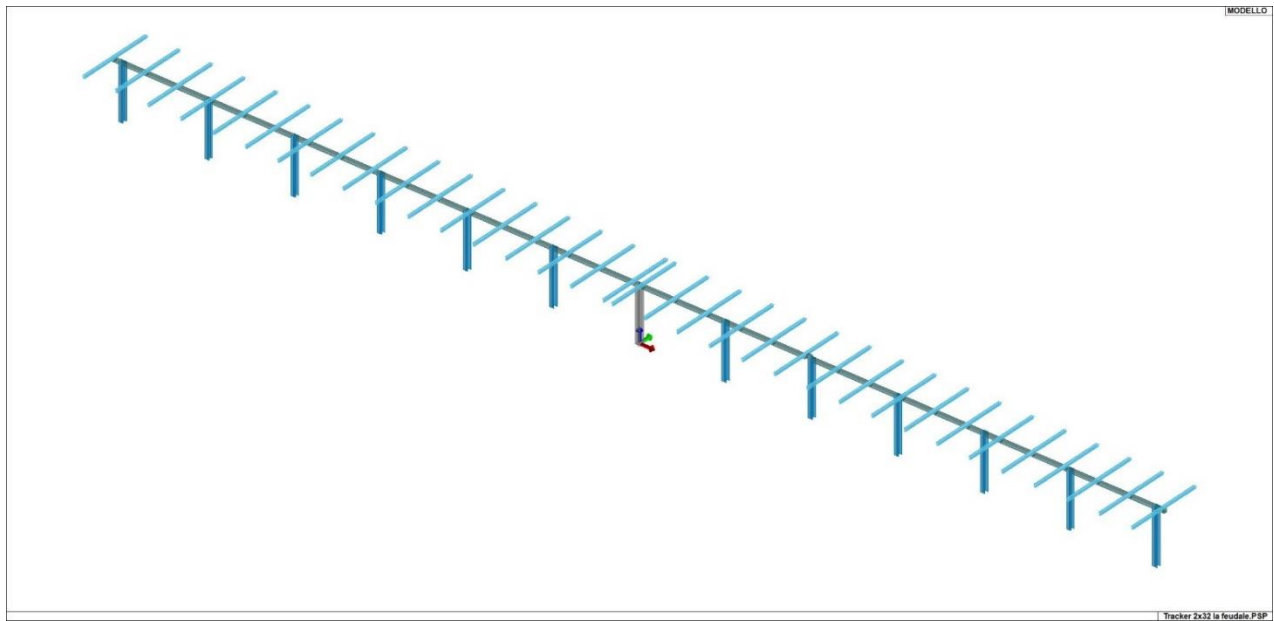
i valori dimensionali con prefisso B sono riferiti all'asse 2

i valori dimensionali con prefisso H sono riferiti all'asse 3

Con riferimento al Documento di Affidabilità "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	HEA 200	53.80	0.0	0.0	21.00	1336.00	3692.00	133.60	388.60	203.80	429.50
2	HEA 180	45.30	0.0	0.0	14.80	925.00	2510.00	102.70	293.60	156.50	324.90
3	T.QU 120x120x5	22.36	0.0	0.0	778.50	485.47	485.47	80.91	80.91	95.45	95.45
5	profilo OMG100x60x30x4.0 (Section Maker)	11.71	0.0	0.0	0.62	103.61	151.70	18.50	30.34	32.79	37.75



13_MOD_SEZIONI

15. MODELLAZIONE STRUTTURA: NODI

15.1. LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

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

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

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

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

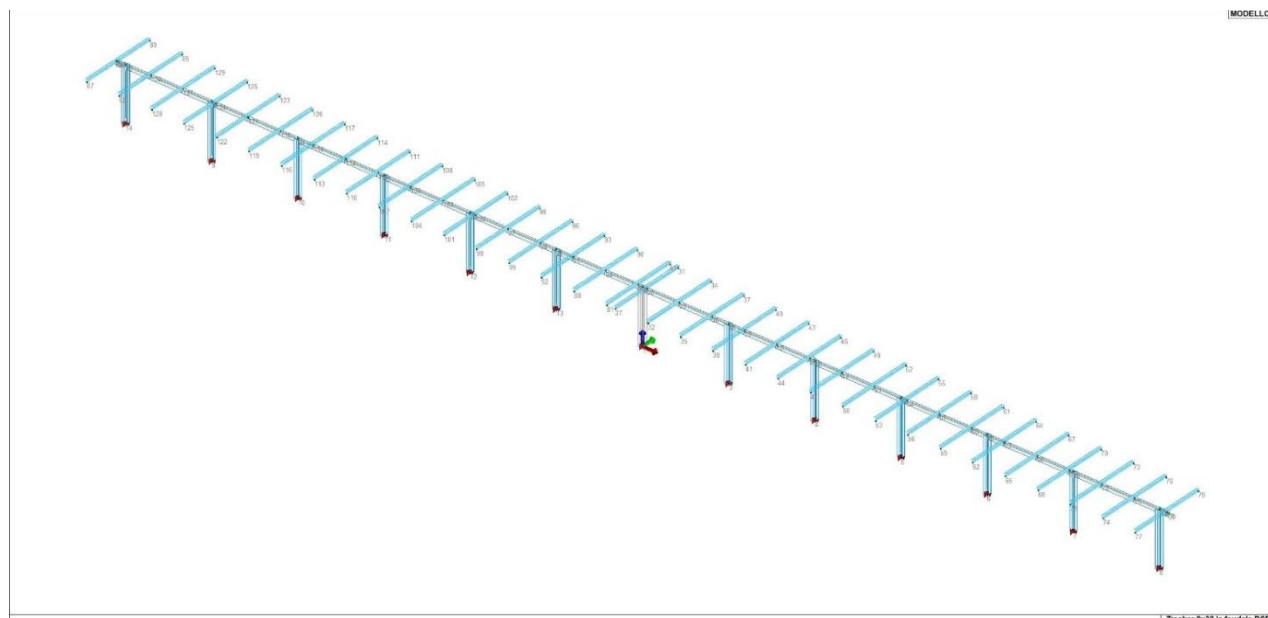
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito,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

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

	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y Z
cm	cm	cm	cm		cm	cm	cm		cm	cm
2 223.0	0.0	0.0	223.0	15	350.0	0.0	223.0	16	700.0	0.0
17 223.0	1050.0	0.0	223.0	18	1400.0	0.0	223.0	19	1750.0	0.0
20 223.0	2100.0	0.0	223.0	21	-350.0	0.0	223.0	22	-700.0	0.0
23 223.0	-1050.0	0.0	223.0	24	-1400.0	0.0	223.0	25	-1750.0	0.0
26 223.0	-2100.0	0.0	223.0	27	18.0	-158.0	223.0	28	-2137.8	0.0
29 223.0	2137.8	0.0	223.0	30	18.0	0.0	223.0	31	18.0	158.0
32 223.0	150.0	-158.0	223.0	33	150.0	0.0	223.0	34	150.0	158.0
35 223.0	282.0	-158.0	223.0	36	282.0	0.0	223.0	37	282.0	158.0
38 223.0	414.0	-158.0	223.0	39	414.0	0.0	223.0	40	414.0	158.0
41 223.0	546.0	-158.0	223.0	42	546.0	0.0	223.0	43	546.0	158.0
44 223.0	678.0	-158.0	223.0	45	678.0	0.0	223.0	46	678.0	158.0
47 223.0	810.0	-158.0	223.0	48	810.0	0.0	223.0	49	810.0	158.0
50 223.0	942.0	-158.0	223.0	51	942.0	0.0	223.0	52	942.0	158.0
53 223.0	1074.0	-158.0	223.0	54	1074.0	0.0	223.0	55	1074.0	158.0
56 223.0	1206.0	-158.0	223.0	57	1206.0	0.0	223.0	58	1206.0	158.0
59 223.0	1338.0	-158.0	223.0	60	1338.0	0.0	223.0	61	1338.0	158.0
62 223.0	1470.0	-158.0	223.0	63	1470.0	0.0	223.0	64	1470.0	158.0
65 223.0	1602.0	-158.0	223.0	66	1602.0	0.0	223.0	67	1602.0	158.0
68 223.0	1734.0	-158.0	223.0	69	1734.0	0.0	223.0	70	1734.0	158.0
71 223.0	1866.0	-158.0	223.0	72	1866.0	0.0	223.0	73	1866.0	158.0
74 223.0	1998.0	-158.0	223.0	75	1998.0	0.0	223.0	76	1998.0	158.0
77 223.0	2130.0	-158.0	223.0	78	2130.0	0.0	223.0	79	2130.0	158.0
80 223.0	-18.0	0.0	223.0	81	-18.0	-158.0	223.0	82	-1998.0	-158.0
83 223.0	-18.0	158.0	223.0	84	-150.0	0.0	223.0	85	-1998.0	158.0
86 223.0	-2130.0	0.0	223.0	87	-2130.0	-158.0	223.0	88	-150.0	-158.0
89 223.0	-2130.0	158.0	223.0	90	-150.0	158.0	223.0	91	-282.0	0.0
92 223.0	-282.0	-158.0	223.0	93	-282.0	158.0	223.0	94	-414.0	0.0
95 223.0	-414.0	-158.0	223.0	96	-414.0	158.0	223.0	97	-546.0	0.0
98 223.0	-546.0	-158.0	223.0	99	-546.0	158.0	223.0	100	-678.0	0.0
101 223.0	-678.0	-158.0	223.0	102	-678.0	158.0	223.0	103	-810.0	0.0
104 223.0	-810.0	-158.0	223.0	105	-810.0	158.0	223.0	106	-942.0	0.0
107 223.0	-942.0	-158.0	223.0	108	-942.0	158.0	223.0	109	-1074.0	0.0
110 223.0	-1074.0	-158.0	223.0	111	-1074.0	158.0	223.0	112	-1206.0	0.0

113	-1206.0	-158.0	223.0	114	-1206.0	158.0	223.0	115	-1338.0	0.0
223.0										
116	-1338.0	-158.0	223.0	117	-1338.0	158.0	223.0	118	-1470.0	0.0
223.0										
119	-1470.0	-158.0	223.0	120	-1470.0	158.0	223.0	121	-1602.0	0.0
223.0										
122	-1602.0	-158.0	223.0	123	-1602.0	158.0	223.0	124	-1734.0	0.0
223.0										
125	-1734.0	-158.0	223.0	126	-1734.0	158.0	223.0	127	-1866.0	0.0
223.0										
128	-1866.0	-158.0	223.0	129	-1866.0	158.0	223.0	130	-1998.0	0.0
223.0										

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY
Rig. RZ	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	cm/rad
daN cm/rad									
1	0.0	0.0	0.0	v=111111					
3	350.0	0.0	0.0	v=111111					
4	700.0	0.0	0.0	v=111111					
5	1050.0	0.0	0.0	v=111111					
6	1400.0	0.0	0.0	v=111111					
7	1750.0	0.0	0.0	v=111111					
8	2100.0	0.0	0.0	v=111111					
9	-1750.0	0.0	0.0	v=111111					
10	-1400.0	0.0	0.0	v=111111					
11	-1050.0	0.0	0.0	v=111111					
12	-700.0	0.0	0.0	v=111111					
13	-350.0	0.0	0.0	v=111111					
14	-2100.0	0.0	0.0	v=111111					



14_MOD_NUMERAZIONE_NODI

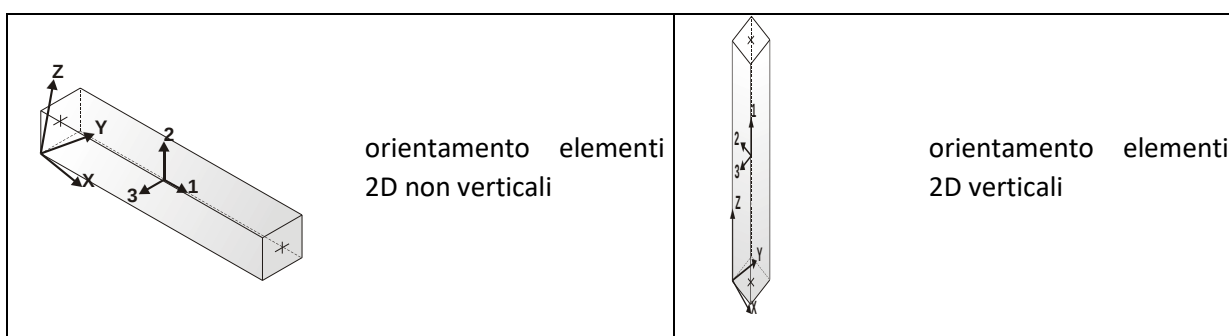
16. MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

16.1. TABELLA DATI TRAVI

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

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

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



In particolare per ogni elemento viene indicato in tabella:

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

Con riferimento al **Documento di Affidabilità** “*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*” - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

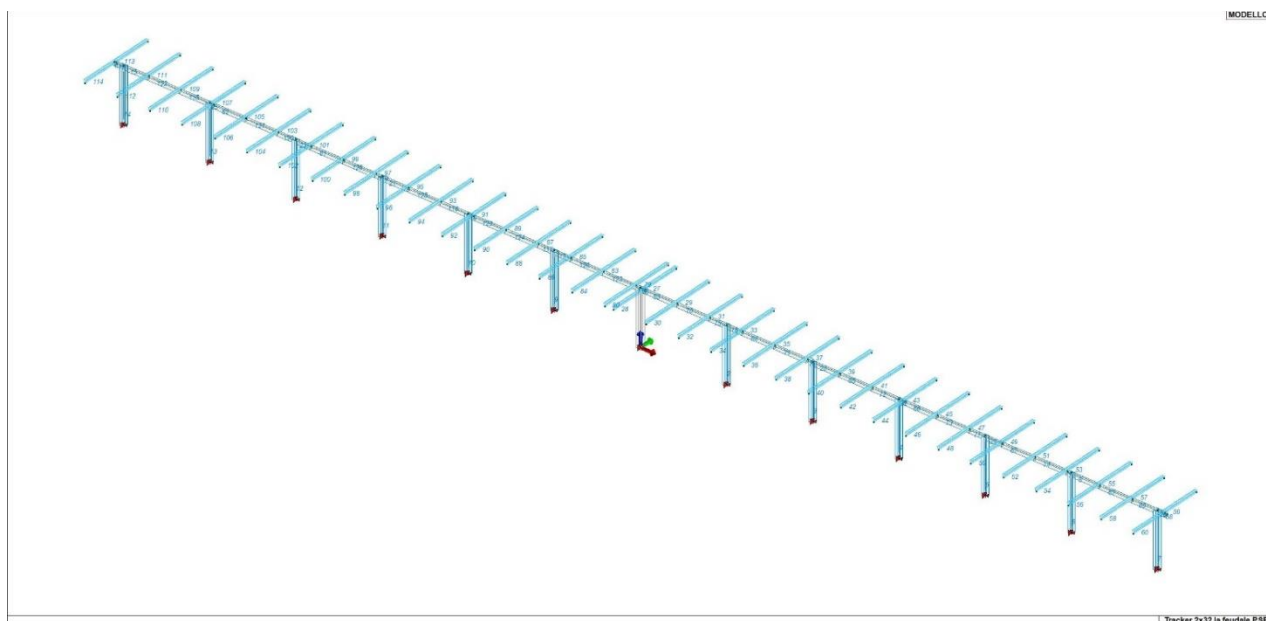
Test N°	Titolo
2	TRAVI A UNA CAMPATA
3	TRAVE A PIU' CAMPATE
4	TRAVE A UNA CAMPATA SU TERRENO ALLA WINKLER
5	TRAVI SU TERRENO ALLA WINKLER CON CARICO TRASVERSALE
6	TELAI PIANI CON CERNIERE ALLA BASE
7	TELAI PIANI CON INCASTRI ALLA BASE
11	STRUTTURE SOGGETTE A VARIAZIONI TERMICHE
12	STRUTTURE SU TERRENO ALLA WINKLER SOTTOPOSTE A CARICHI DISTRIBUITI TRIANGOLARI
21	DRILLING
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE
42	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
43	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
44	VERIFICA ALLE TA DI STRUTTURE IN C.A.
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
47	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	FATTORE DI STRUTTURA
53	SOVRARESISTENZE
54	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO

58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P- δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P- δ SU TELAIO 3D
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
102	SNELLEZZE EC5
130	PROGETTO E VERIFICA DI TRAVI PREM

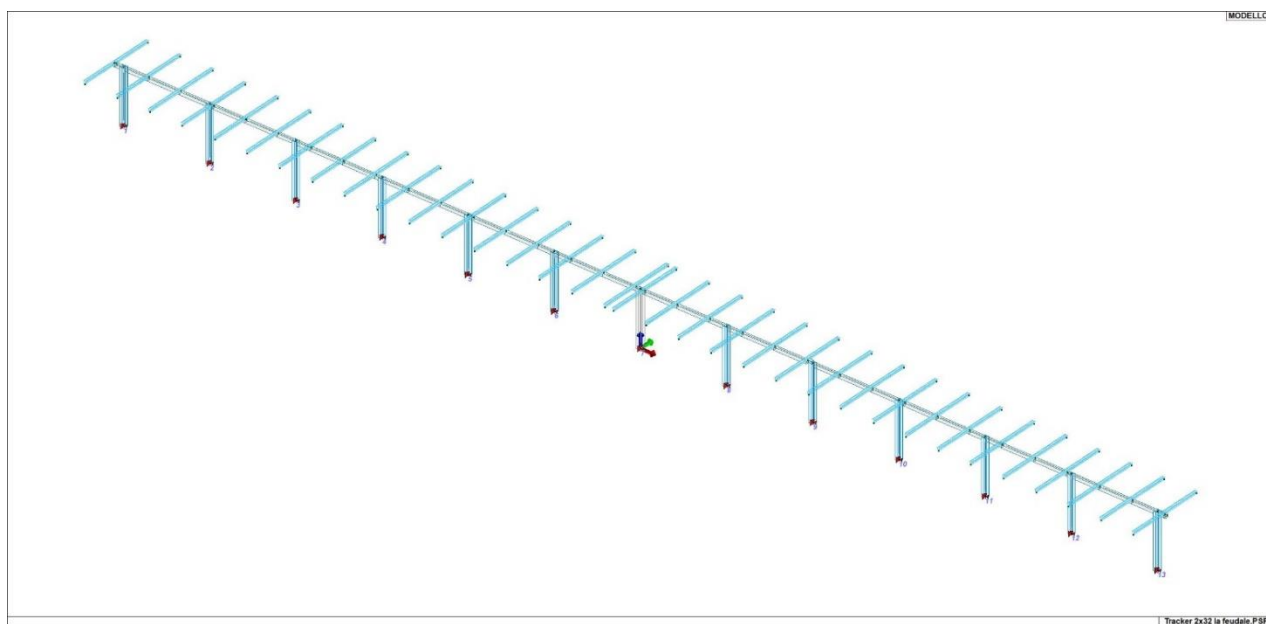
Elem. Wink O	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz.	Svincolo I	Svincolo JWink	V
						gradi			daN/cm3
1	Pilas.	1	2	13	1	90.00			
2	Pilas.	3	15	13	2	90.00			
3	Pilas.	4	16	13	2	90.00			
4	Pilas.	5	17	13	2	90.00			
5	Pilas.	6	18	13	2	90.00			
6	Pilas.	7	19	13	2	90.00			
7	Pilas.	8	20	13	2	90.00			
8	Trave	19	72	13	3	90.00			
9	Pilas.	13	21	13	2	90.00			
10	Pilas.	12	22	13	2	90.00			
11	Pilas.	11	23	13	2	90.00			
12	Pilas.	10	24	13	2	90.00			
13	Pilas.	9	25	13	2	90.00			
14	Pilas.	14	26	13	2	90.00			
15	Trave	26	130	13	3	90.00			
16	Trave	2	30	13	3	90.00			
17	Trave	21	91	13	3	90.00			
18	Trave	15	39	13	3	90.00			
19	Trave	22	100	13	3	90.00			
20	Trave	16	48	13	3	90.00			
21	Trave	23	106	13	3	90.00			
22	Trave	17	54	13	3	90.00			
23	Trave	24	115	13	3	90.00			
24	Trave	18	63	13	3	90.00			
25	Trave	25	124	13	3	90.00			
26	Trave	20	78	13	3				
27	Trave	30	31	13	5	180.00			
28	Trave	27	30	13	5	180.00			
29	Trave	33	34	13	5	180.00			
30	Trave	32	33	13	5	180.00			
31	Trave	36	37	13	5	180.00			
32	Trave	35	36	13	5	180.00			
33	Trave	39	40	13	5	180.00			
34	Trave	38	39	13	5	180.00			
35	Trave	42	43	13	5	180.00			
36	Trave	41	42	13	5	180.00			
37	Trave	45	46	13	5	180.00			

38	Trave	44	45	13	5	180.00
39	Trave	48	49	13	5	180.00
40	Trave	47	48	13	5	180.00
41	Trave	51	52	13	5	180.00
42	Trave	50	51	13	5	180.00
43	Trave	54	55	13	5	180.00
44	Trave	53	54	13	5	180.00
45	Trave	57	58	13	5	180.00
46	Trave	56	57	13	5	180.00
47	Trave	60	61	13	5	180.00
48	Trave	59	60	13	5	180.00
49	Trave	63	64	13	5	180.00
50	Trave	62	63	13	5	180.00
51	Trave	66	67	13	5	180.00
52	Trave	65	66	13	5	180.00
53	Trave	69	70	13	5	180.00
54	Trave	68	69	13	5	180.00
55	Trave	72	73	13	5	180.00
56	Trave	71	72	13	5	180.00
57	Trave	75	76	13	5	180.00
58	Trave	74	75	13	5	180.00
59	Trave	78	79	13	5	180.00
60	Trave	77	78	13	5	180.00
61	Trave	28	86	13	3	
62	Trave	72	75	13	3	90.00
63	Trave	30	33	13	3	90.00
64	Trave	39	42	13	3	90.00
65	Trave	48	51	13	3	90.00
66	Trave	54	57	13	3	90.00
67	Trave	63	66	13	3	90.00
68	Trave	78	29	13	3	
69	Trave	75	20	13	3	90.00
70	Trave	33	36	13	3	90.00
71	Trave	42	45	13	3	90.00
72	Trave	51	17	13	3	90.00
73	Trave	57	60	13	3	90.00
74	Trave	66	69	13	3	90.00
75	Trave	36	15	13	3	90.00
76	Trave	45	16	13	3	90.00
77	Trave	60	18	13	3	90.00
78	Trave	69	19	13	3	90.00
79	Trave	80	83	13	5	180.00
80	Trave	81	80	13	5	180.00
81	Trave	115	112	13	3	90.00
82	Trave	124	121	13	3	90.00
83	Trave	84	90	13	5	180.00
84	Trave	88	84	13	5	180.00
85	Trave	91	93	13	5	180.00
86	Trave	92	91	13	5	180.00
87	Trave	94	96	13	5	180.00
88	Trave	95	94	13	5	180.00
89	Trave	97	99	13	5	180.00
90	Trave	98	97	13	5	180.00
91	Trave	100	102	13	5	180.00
92	Trave	101	100	13	5	180.00
93	Trave	103	105	13	5	180.00
94	Trave	104	103	13	5	180.00
95	Trave	106	108	13	5	180.00
96	Trave	107	106	13	5	180.00
97	Trave	109	111	13	5	180.00
98	Trave	110	109	13	5	180.00
99	Trave	112	114	13	5	180.00
100	Trave	113	112	13	5	180.00
101	Trave	115	117	13	5	180.00
102	Trave	116	115	13	5	180.00
103	Trave	118	120	13	5	180.00
104	Trave	119	118	13	5	180.00
105	Trave	121	123	13	5	180.00
106	Trave	122	121	13	5	180.00
107	Trave	124	126	13	5	180.00
108	Trave	125	124	13	5	180.00
109	Trave	127	129	13	5	180.00
110	Trave	128	127	13	5	180.00
111	Trave	130	85	13	5	180.00
112	Trave	82	130	13	5	180.00

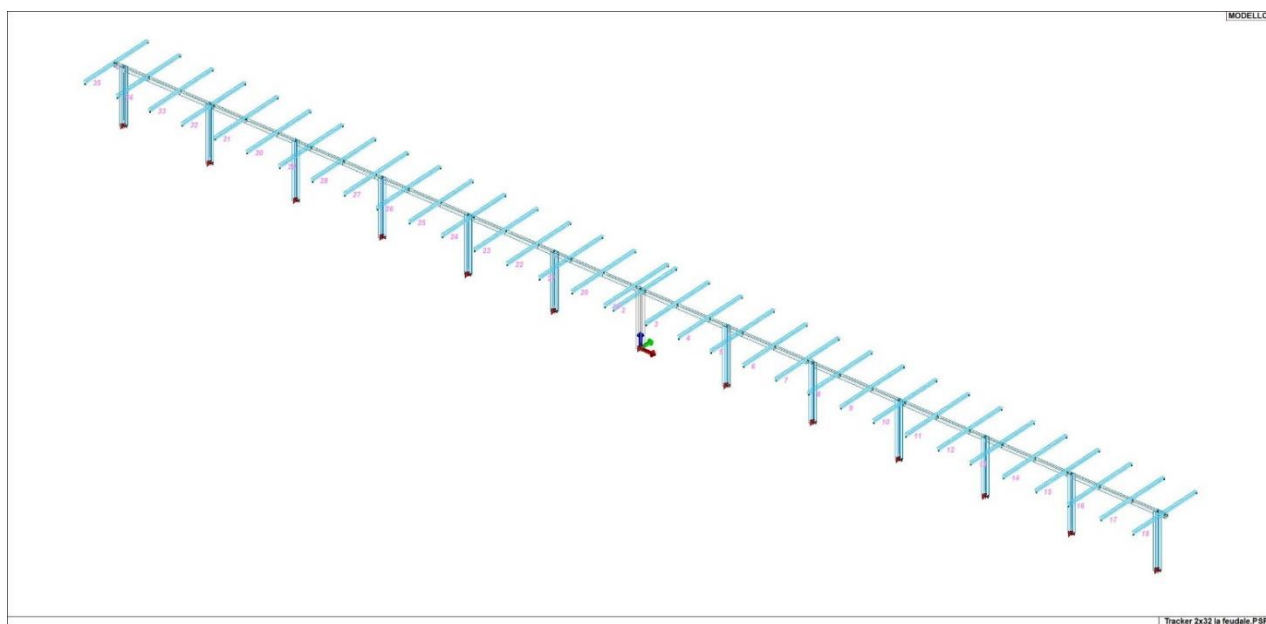
113	Trave	86	89	13	5	180.00
114	Trave	87	86	13	5	180.00
115	Trave	127	25	13	3	90.00
116	Trave	80	2	13	3	90.00
117	Trave	94	21	13	3	90.00
118	Trave	103	22	13	3	90.00
119	Trave	109	23	13	3	90.00
120	Trave	118	24	13	3	90.00
121	Trave	86	26	13	3	
122	Trave	130	127	13	3	90.00
123	Trave	84	80	13	3	90.00
124	Trave	97	94	13	3	90.00
125	Trave	106	103	13	3	90.00
126	Trave	112	109	13	3	90.00
127	Trave	121	118	13	3	90.00
128	Trave	91	84	13	3	90.00
129	Trave	100	97	13	3	90.00



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

17. MODELLAZIONE DELLE AZIONI

17.1. LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	carico concentrato nodale 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	spostamento nodale impresso 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	carico distribuito globale su elemento tipo trave 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	variazione termica applicata ad elemento tipo trave 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	carico di pressione uniforme su elemento tipo piastra 1 dato (pressione)
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)

11 carico variabile generale su elementi tipo trave e piastra

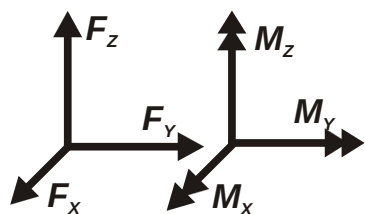
1 dato descrizione della tipologia

4 dati per segmento (posizione, valore, posizione, valore)

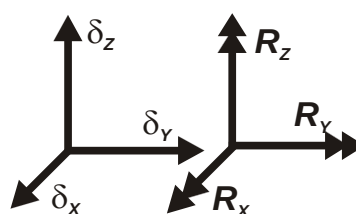
la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave

12 gruppo di carichi con impronta su piastra

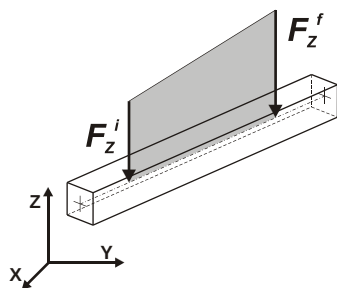
9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)



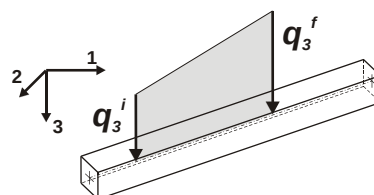
Carico
concentrato
nodale



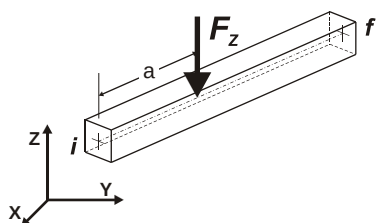
Spostamento
impresso



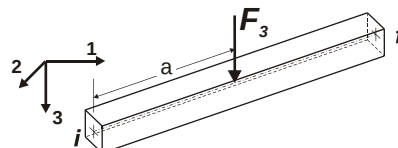
Carico
distribuito
globale



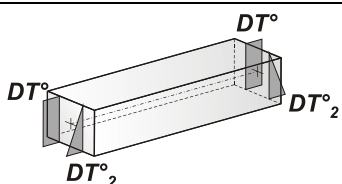
Carico
distribuito locale



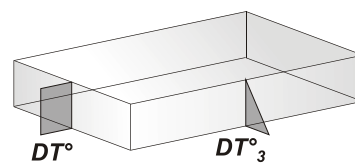
Carico
concentrato
globale



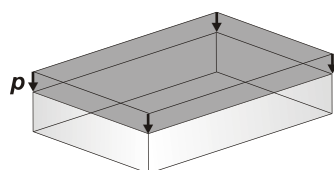
Carico
concentrato
locale



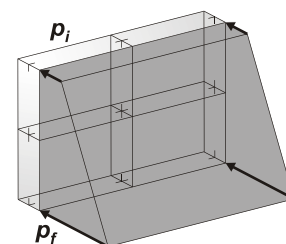
Carico termico
2D



Carico termico
3D



Carico
pressione
uniforme



Carico pressione
variabile

Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
2	Neve- Montanti Interni	0.0	0.0	0.0	-0.93	0.0	0.0	0.0
		0.0	0.0	0.0	-0.93	0.0	0.0	0.0
3	Vento Y+ CF<0 Aste sup 0°	0.0	0.0	0.0	0.14	0.0	0.0	0.0
		0.0	0.0	0.0	0.30	0.0	0.0	0.0
4	Vento Y+ cf>0 Aste sup 0°	0.0	0.0	0.0	-0.06	0.0	0.0	0.0
		0.0	0.0	0.0	0.02	0.0	0.0	0.0
5	Vento Y+ cf<0 0° Aste inf	0.0	0.0	0.0	-0.26	0.0	0.0	0.0
		0.0	0.0	0.0	0.14	0.0	0.0	0.0

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
7	Peso moduli - montanti interni	0.0	0.0	0.0	-0.25	0.0	0.0	0.0
		0.0	0.0	0.0	-0.25	0.0	0.0	0.0
8	Vento y+ cf>0 0° aste Inf	0.0	0.0	0.0	-0.10	0.0	0.0	0.0
		0.0	0.0	0.0	-0.06	0.0	0.0	0.0

18. SCHEMATIZZAZIONE DEI CASI DI CARICO

18.1. LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	<i>Sigla</i>	<i>Tipo</i>	<i>Descrizione</i>
1	Ggk	A	caso di carico comprensivo del peso proprio struttura
2	Gk	NA	caso di carico con azioni permanenti
3	Qk	NA	caso di carico con azioni variabili
4	Gsk	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	Qsk	A	caso di carico comprensivo dei carichi variabili sui solai
6	Qnk	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	Qtk	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	Qvk	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	Esk	SA	caso di carico sismico con analisi statica equivalente
10	Edk	SA	caso di carico sismico con analisi dinamica
11	Etk	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	Pk	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

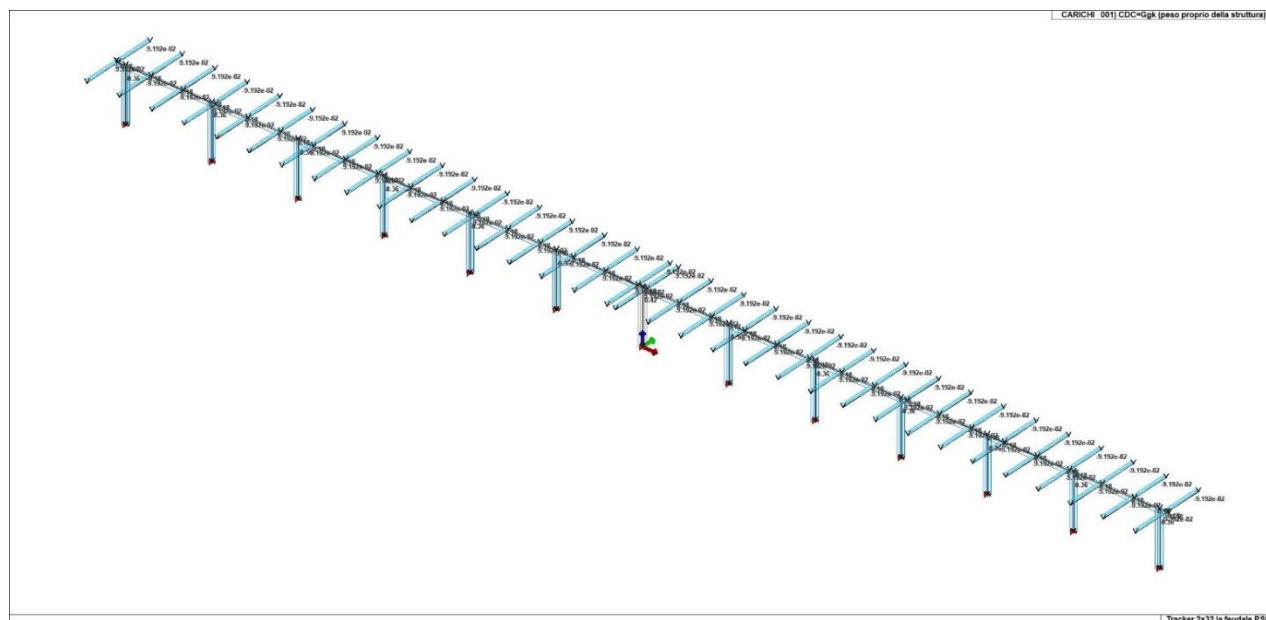
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 13 CDC=G1k (peso moduli)
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Qk	CDC=Qk (Neve)	Azioni applicate:
			D2 :da 27 a 60 Azione : Neve- Montanti Interni
			D2 :da 79 a 80 Azione : Neve- Montanti Interni
			D2 :da 83 a 114 Azione : Neve- Montanti Interni
11	Qvk	CDC=Qvk (carico da vento 1)	Azioni applicate:
			D2 : 27 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 28 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 29 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 30 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 31 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 32 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 33 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 34 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 35 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 36 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 37 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 38 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 39 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 40 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 41 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 42 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 43 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 44 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 45 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 46 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 47 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 48 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 49 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 50 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 51 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 52 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 53 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 54 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 55 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 56 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 57 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 58 Azione : Vento Y+ cf<0 0° Aste inf

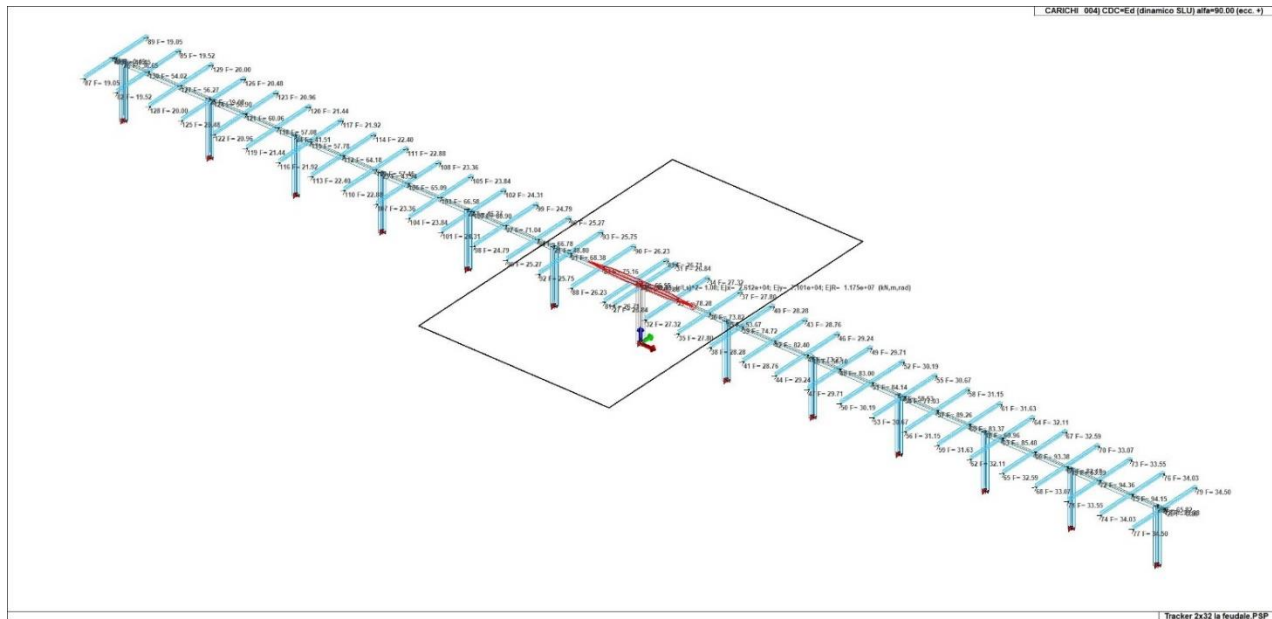
CDC	Tipo	Sigla Id	Note
			D2 : 59 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 60 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 79 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 80 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 83 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 84 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 85 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 86 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 87 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 88 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 89 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 90 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 91 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 92 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 93 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 94 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 95 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 96 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 97 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 98 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 99 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 100 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 101 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 102 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 103 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 104 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 105 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 106 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 107 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 108 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 109 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 110 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 111 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 112 Azione : Vento Y+ cf<0 0° Aste inf
			D2 : 113 Azione : Vento Y+ CF<0 Aste sup 0°
			D2 : 114 Azione : Vento Y+ cf<0 0° Aste inf
12	Qvk	CDC=Qvk (carico da vento 2)	Azioni applicate:
			D2 : 27 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 28 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 29 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 30 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 31 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 32 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 33 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 34 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 35 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 36 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 37 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 38 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 39 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 40 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 41 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 42 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 43 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 44 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 45 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 46 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 47 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 48 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 49 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 50 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 51 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 52 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 53 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 54 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 55 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 56 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 57 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 58 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 59 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 60 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 79 Azione : Vento Y+ cf>0 Aste sup 0°

CDC	Tipo	Sigla Id	Note
			D2 : 80 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 83 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 84 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 85 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 86 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 87 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 88 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 89 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 90 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 91 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 92 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 93 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 94 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 95 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 96 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 97 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 98 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 99 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 100 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 101 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 102 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 103 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 104 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 105 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 106 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 107 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 108 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 109 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 110 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 111 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 112 Azione : Vento y+ cf>0 0° aste Inf
			D2 : 113 Azione : Vento Y+ cf>0 Aste sup 0°
			D2 : 114 Azione : Vento y+ cf>0 0° aste Inf
13	Gk	CDC=G1k (peso moduli)	Azioni applicate:
			D2 :da 27 a 60 Azione : Peso moduli - montanti interni
			D2 :da 79 a 80 Azione : Peso moduli - montanti interni
			D2 :da 83 a 114 Azione : Peso moduli - montanti interni
14	Qvk	CDC=Qvk (carico da vento 3)	Azioni applicate:
15	Qvk	CDC=Qvk (carico da vento 4)	Azioni applicate:

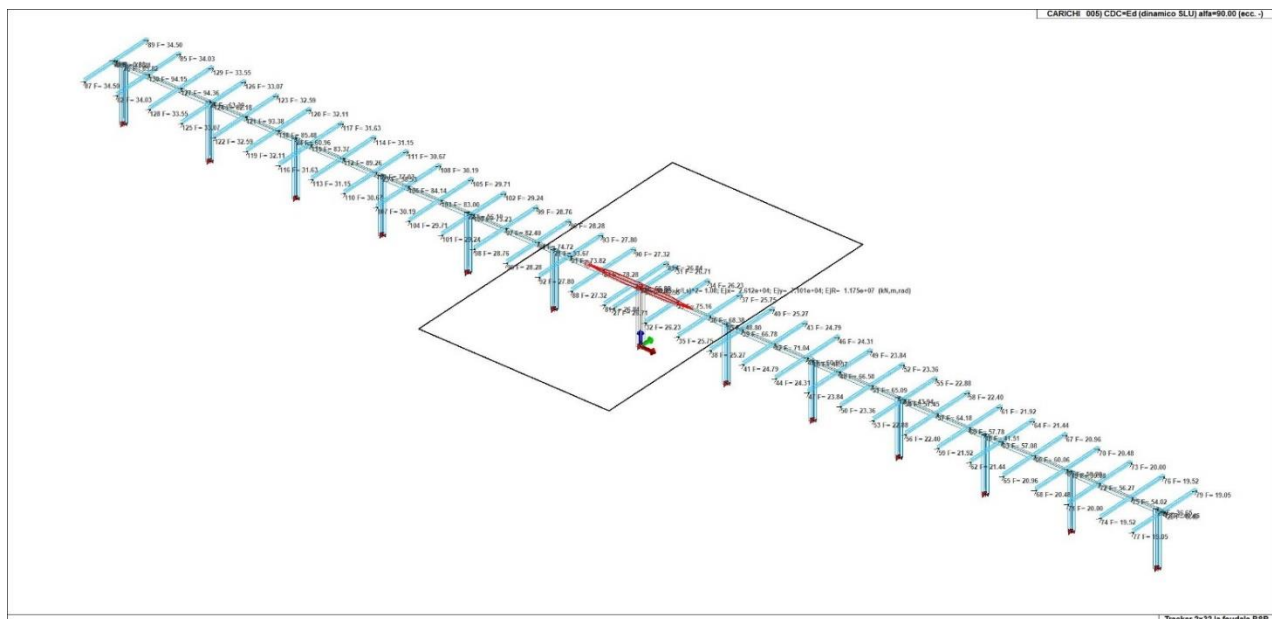


22_CDC_001_CDC=Ggk (peso proprio della struttura)

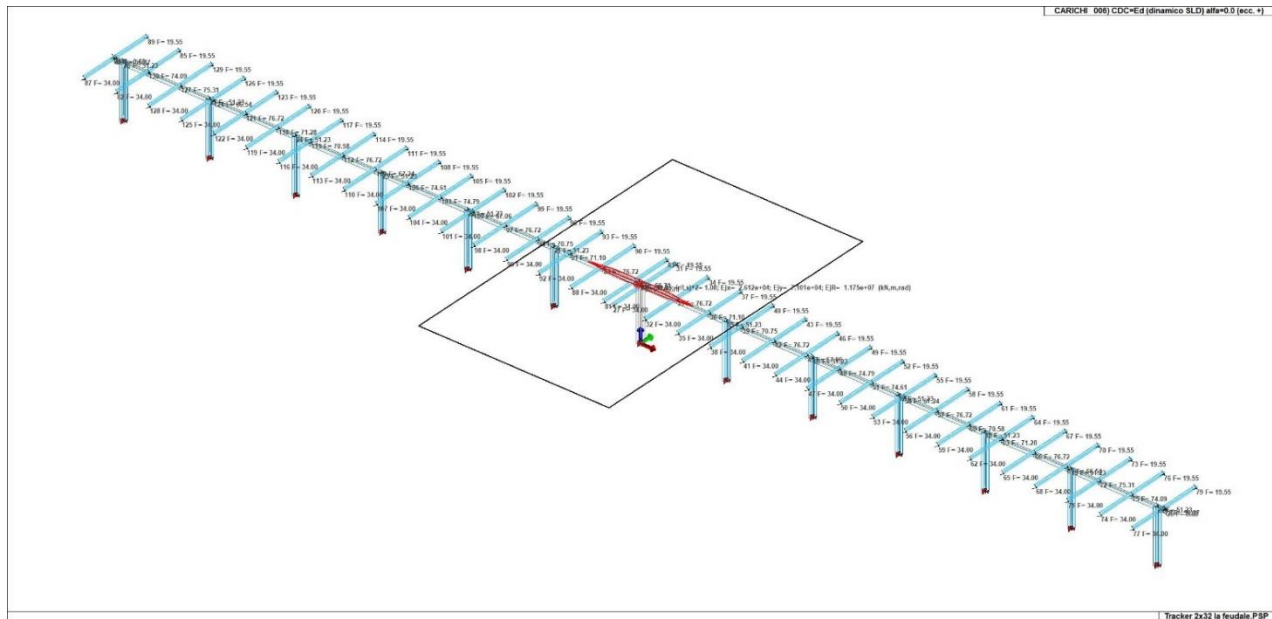




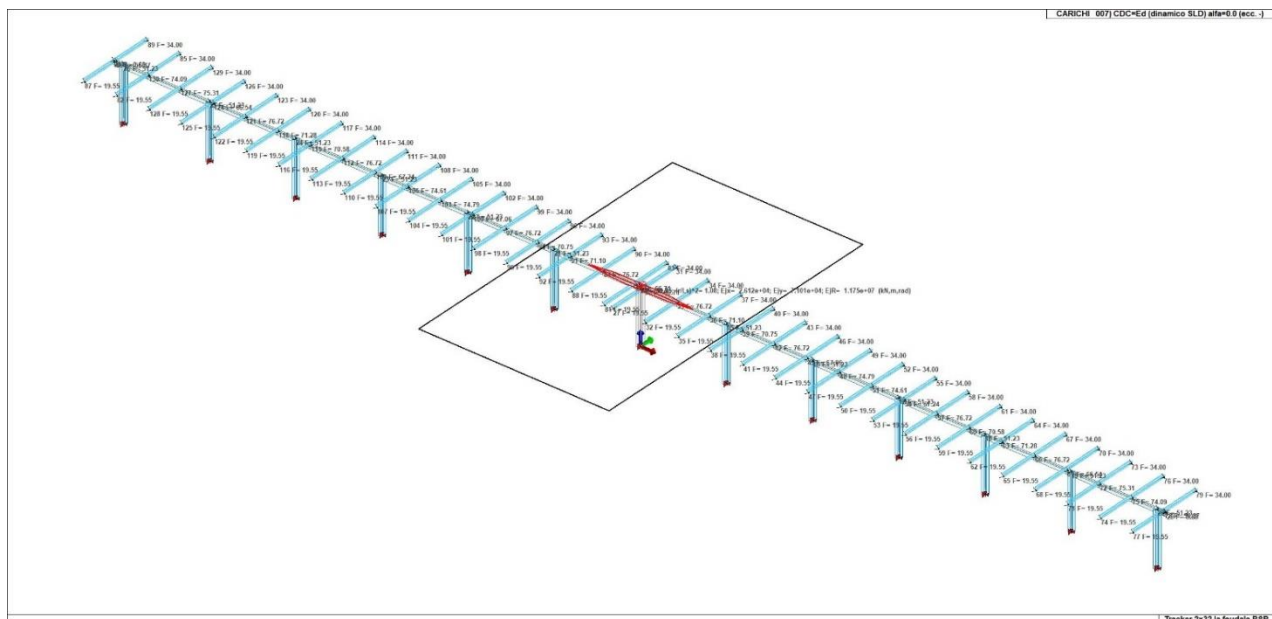
22_CDC_004_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



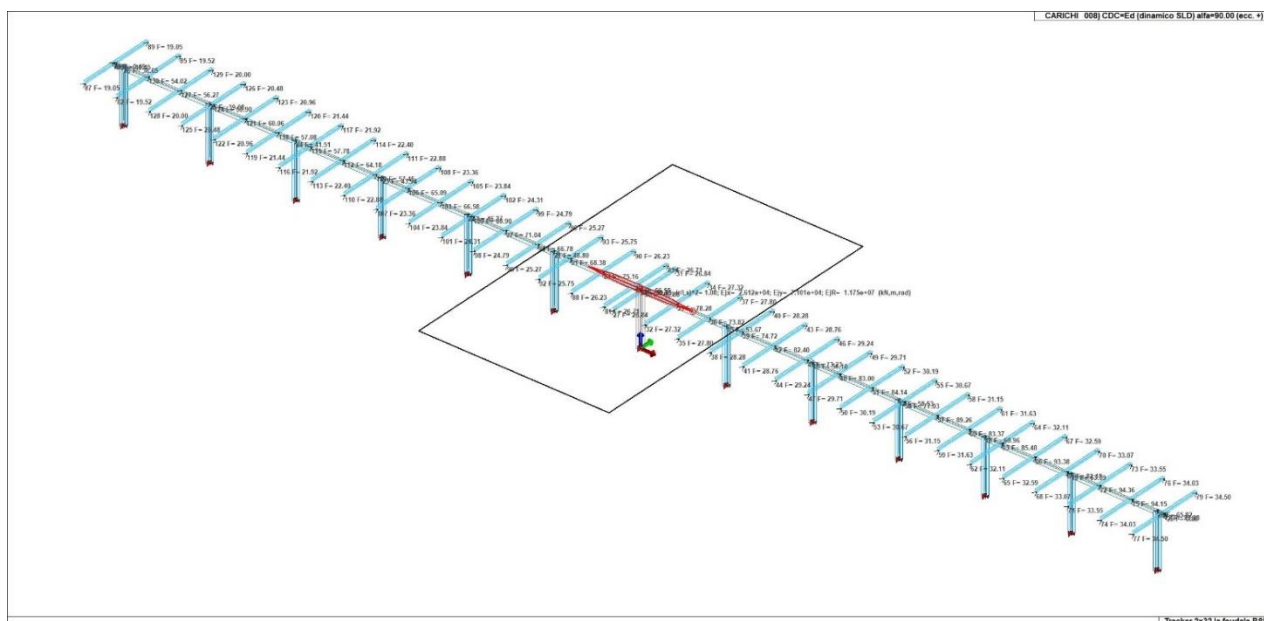
22_CDC_005_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



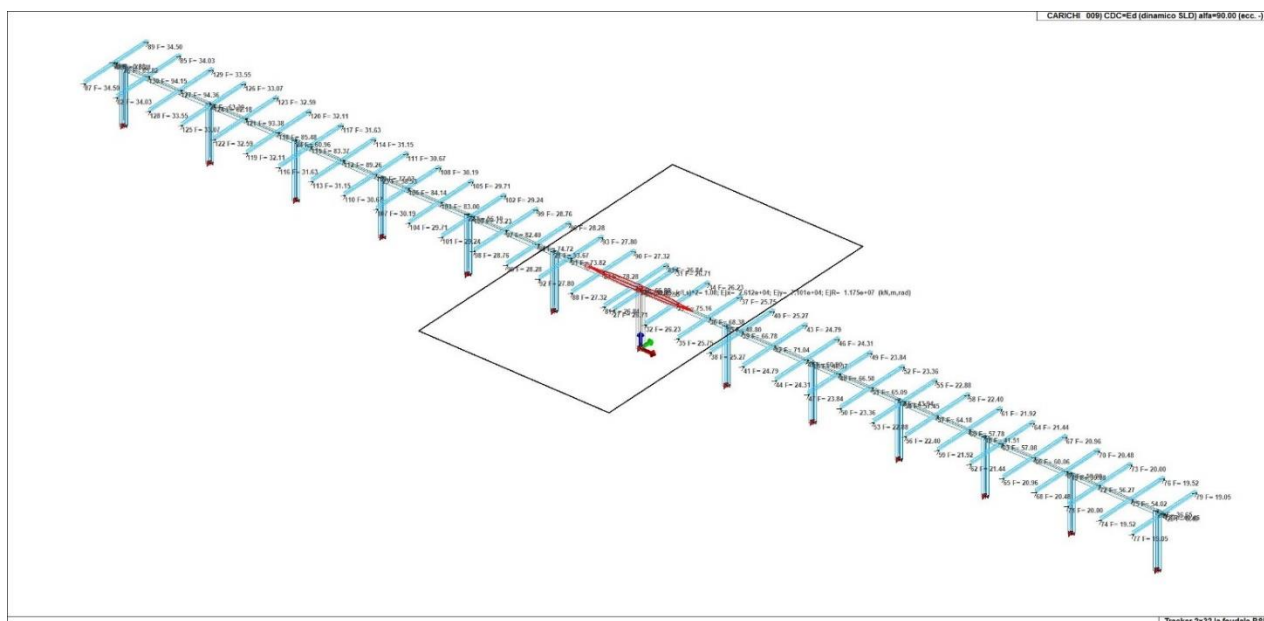
22_CDC_006_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



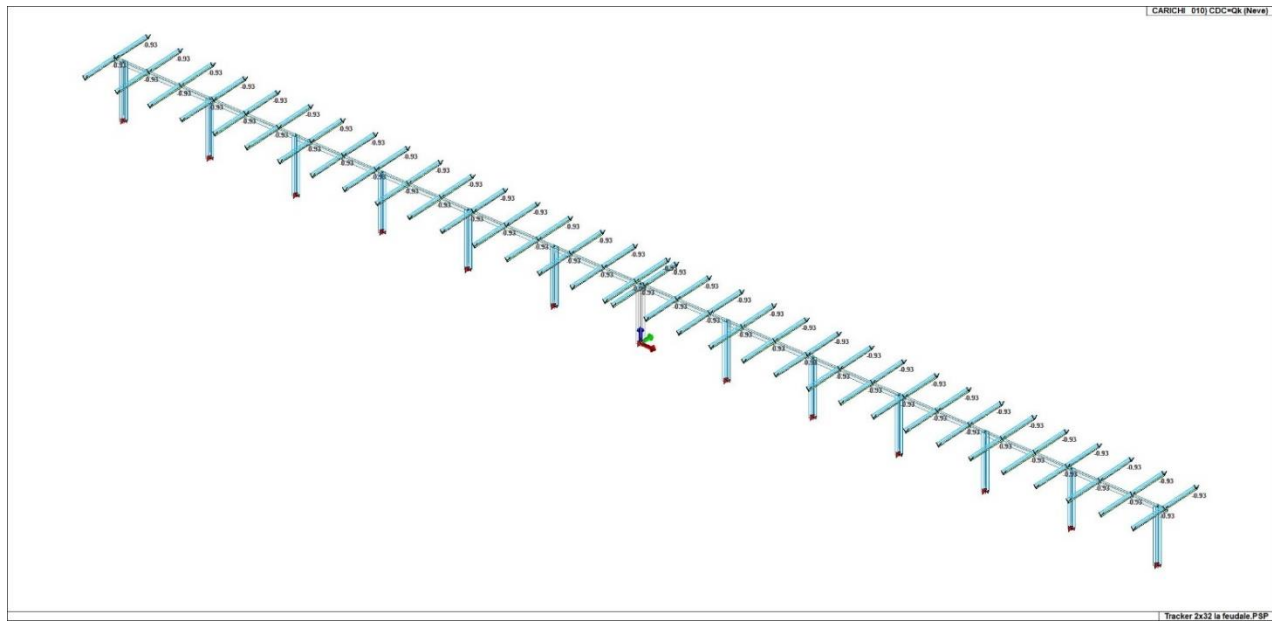
22_CDC_007_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



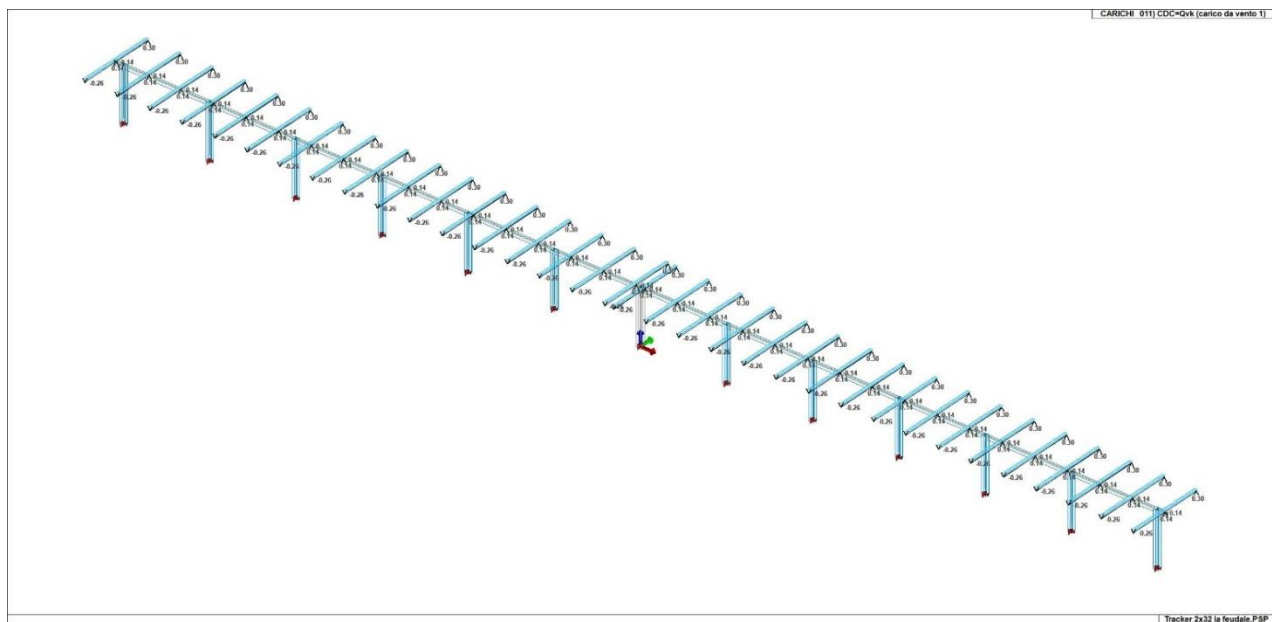
22_CDC_008_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



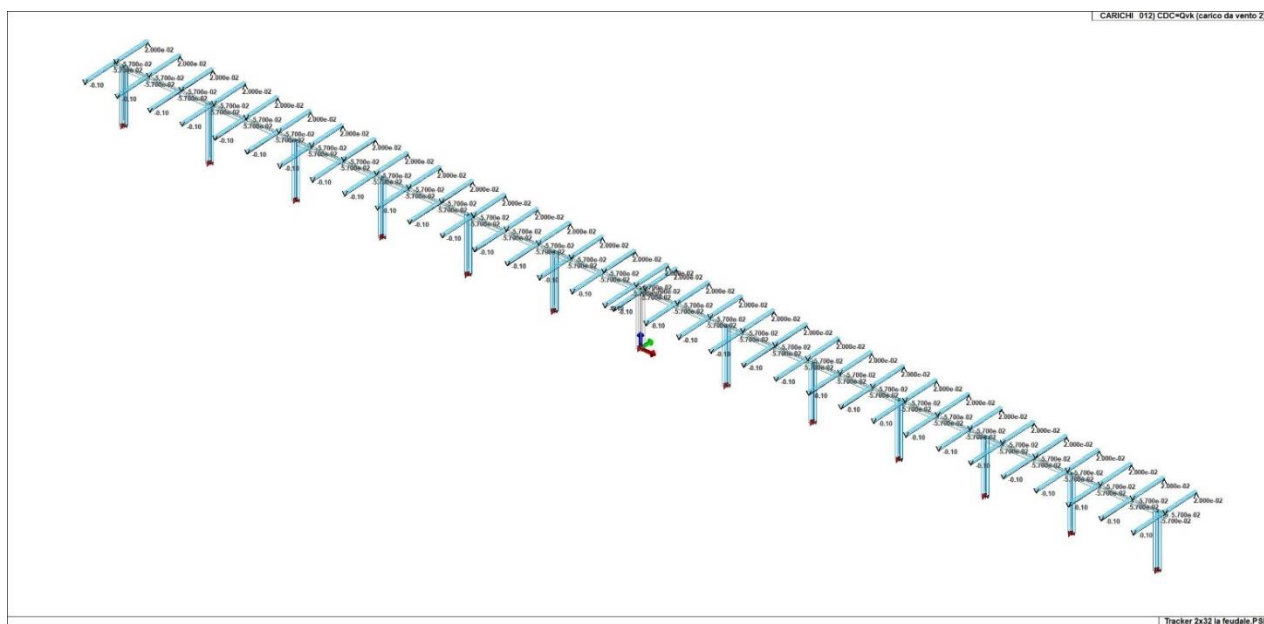
22_CDC_009_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)



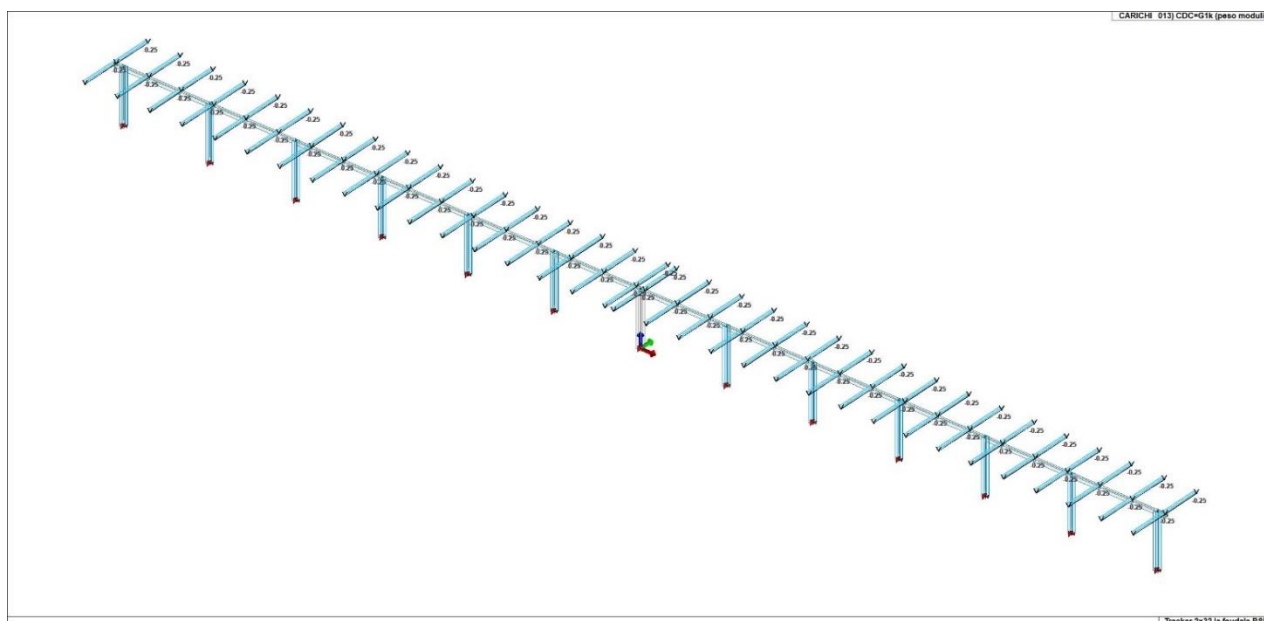
22_CDC_010_CDC=Qk (Neve)



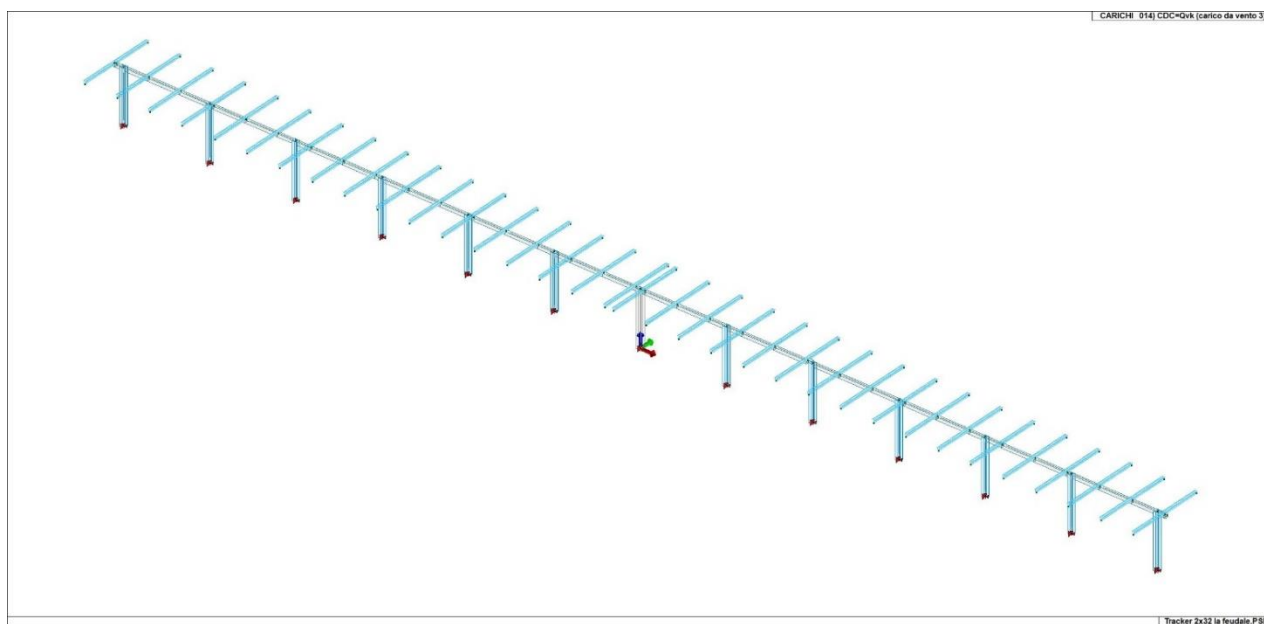
22_CDC_011_CDC=Qvk (carico da vento 1)



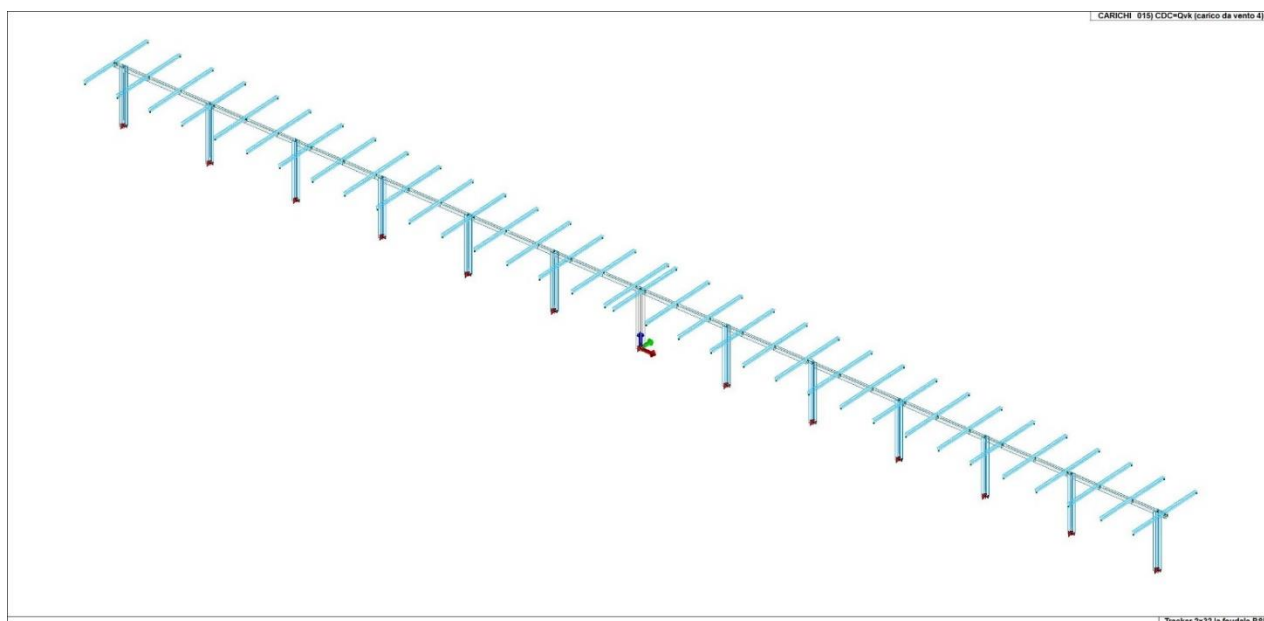
22_CDC_012_CDC=Qvk (carico da vento 2)



22_CDC_013_CDC=G1k (peso moduli)



22_CDC_014_CDC=Qvk (carico da vento 3)



22_CDC_015_CDC=Qvk (carico da vento 4)

19. DEFINIZIONE DELLE COMBINAZIONI

19.1. LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.

Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \dots$$

Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \dots$$

Combinazione frequente SLE

$$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60

Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota <= 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),

- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente	EQU	A1	A2
		γ_f			
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	

Cmb	Tipo	Sigla Id	effetto P-delta
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLE(f)	Comb. SLE(freq.) 21	
22	SLE(f)	Comb. SLE(freq.) 22	
23	SLE(f)	Comb. SLE(freq.) 23	
24	SLE(f)	Comb. SLE(freq.) 24	
25	SLE(r)	Comb. SLE(rara) 25	
26	SLE(r)	Comb. SLE(rara) 26	
27	SLE(r)	Comb. SLE(rara) 27	
28	SLE(r)	Comb. SLE(rara) 28	
29	SLE(r)	Comb. SLE(rara) 29	
30	SLE(r)	Comb. SLE(rara) 30	
31	SLE(r)	Comb. SLE(rara) 31	
32	SLE(r)	Comb. SLE(rara) 32	
33	SLE(r)	Comb. SLE(rara) 33	
34	SLE(r)	Comb. SLE(rara) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLU	Comb. SLU A1 (SLV sism.) 41	
42	SLU	Comb. SLU A1 (SLV sism.) 42	
43	SLU	Comb. SLU A1 (SLV sism.) 43	
44	SLU	Comb. SLU A1 (SLV sism.) 44	
45	SLU	Comb. SLU A1 (SLV sism.) 45	
46	SLU	Comb. SLU A1 (SLV sism.) 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLU	Comb. SLU A1 (SLV sism.) 51	
52	SLU	Comb. SLU A1 (SLV sism.) 52	
53	SLU	Comb. SLU A1 (SLV sism.) 53	
54	SLU	Comb. SLU A1 (SLV sism.) 54	
55	SLU	Comb. SLU A1 (SLV sism.) 55	
56	SLU	Comb. SLU A1 (SLV sism.) 56	
57	SLU	Comb. SLU A1 (SLV sism.) 57	
58	SLU	Comb. SLU A1 (SLV sism.) 58	
59	SLU	Comb. SLU A1 (SLV sism.) 59	
60	SLU	Comb. SLU A1 (SLV sism.) 60	
61	SLU	Comb. SLU A1 (SLV sism.) 61	
62	SLU	Comb. SLU A1 (SLV sism.) 62	
63	SLU	Comb. SLU A1 (SLV sism.) 63	
64	SLU	Comb. SLU A1 (SLV sism.) 64	
65	SLU	Comb. SLU A1 (SLV sism.) 65	
66	SLU	Comb. SLU A1 (SLV sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	
73	SLD(sis)	Comb. SLE (SLD Danno sism.) 73	
74	SLD(sis)	Comb. SLE (SLD Danno sism.) 74	
75	SLD(sis)	Comb. SLE (SLD Danno sism.) 75	
76	SLD(sis)	Comb. SLE (SLD Danno sism.) 76	
77	SLD(sis)	Comb. SLE (SLD Danno sism.) 77	
78	SLD(sis)	Comb. SLE (SLD Danno sism.) 78	
79	SLD(sis)	Comb. SLE (SLD Danno sism.) 79	
80	SLD(sis)	Comb. SLE (SLD Danno sism.) 80	

Cmb	Tipo	Sigla Id	effetto P-delta
81	SLD(sis)	Comb. SLE (SLD Danno sism.) 81	
82	SLD(sis)	Comb. SLE (SLD Danno sism.) 82	
83	SLD(sis)	Comb. SLE (SLD Danno sism.) 83	
84	SLD(sis)	Comb. SLE (SLD Danno sism.) 84	
85	SLD(sis)	Comb. SLE (SLD Danno sism.) 85	
86	SLD(sis)	Comb. SLE (SLD Danno sism.) 86	
87	SLD(sis)	Comb. SLE (SLD Danno sism.) 87	
88	SLD(sis)	Comb. SLE (SLD Danno sism.) 88	
89	SLD(sis)	Comb. SLE (SLD Danno sism.) 89	
90	SLD(sis)	Comb. SLE (SLD Danno sism.) 90	
91	SLD(sis)	Comb. SLE (SLD Danno sism.) 91	
92	SLD(sis)	Comb. SLE (SLD Danno sism.) 92	
93	SLD(sis)	Comb. SLE (SLD Danno sism.) 93	
94	SLD(sis)	Comb. SLE (SLD Danno sism.) 94	
95	SLD(sis)	Comb. SLE (SLD Danno sism.) 95	
96	SLD(sis)	Comb. SLE (SLD Danno sism.) 96	
97	SLD(sis)	Comb. SLE (SLD Danno sism.) 97	
98	SLD(sis)	Comb. SLE (SLD Danno sism.) 98	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.30	0.0
2	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.90	0.90	1.30	0.0
3	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.00	0.0
4	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.90	0.90	1.00	0.0
5	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.90	1.30	0.0
6	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	1.50	0.90	1.30	0.0
7	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.90	1.00	0.0
8	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	1.50	0.90	1.00	0.0
9	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	1.50	1.30	0.0
10	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	1.50	1.30	0.0
11	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	1.50	1.00	0.0
12	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	1.50	1.00	0.0
13	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.30	1.50
14	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	0.90	1.30	1.50
15	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.00	1.50
16	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	0.90	1.00	1.50
17	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.30	0.0
18	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	0.90	1.30	0.0
19	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	1.00	0.0
20	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.90	0.90	1.00	0.0
21	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
22	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	1.00	0.0
23	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	1.00	0.0
24	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	1.00	0.0

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Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
60	1.00	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
61	1.00	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
62	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
63	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
64	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
65	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
66	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
67	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.0
68	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.0
69	1.00	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.0
70	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.0
71	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	1.00	0.0
72	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	1.00	0.0
73	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	1.00	0.0
74	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	1.00	0.0
75	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	1.00	0.0
76	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0
77	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	1.00	0.0
78	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0
79	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	1.00	0.0
80	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	1.00	0.0
81	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	1.00	0.0
82	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	1.00	0.0
83	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.0
84	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.0
85	1.00	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.0
86	1.00	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.0
87	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	1.00	0.0
88	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	1.00	0.0
89	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	1.00	0.0
90	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	1.00	0.0
91	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	1.00	0.0
92	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	1.00	0.0
93	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	1.00	0.0
94	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	1.00	0.0
95	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	1.00	0.0

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20. AZIONE SISMICA

20.1. VALUTAZIONE DELL'AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell'allegato alle NTC (rispettivamente media pesata e interpolazione).

L'azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

ag: accelerazione orizzontale massima del terreno;

Fo: valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T*c: periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

20.1.1. Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	2.0	100.0	B	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.3)

Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di riferimento rigido orizzontale

Tb è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

Tc è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

Td è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	15.746	41.549	
30114	15.694	41.514	5.834
30115	15.761	41.512	4.309
29893	15.762	41.562	1.926
29892	15.696	41.564	4.472

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	60.0	0.070	2.510	0.310
SLD	63.0	101.0	0.088	2.530	0.330
SLV	10.0	949.0	0.215	2.490	0.380
SLC	5.0	1950.0	0.278	2.480	0.390

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.070	1.200	2.510	0.895	0.144	0.431	1.879
SLD	0.088	1.200	2.530	1.014	0.151	0.453	1.953
SLV	0.215	1.186	2.490	1.559	0.169	0.507	2.460
SLC	0.278	1.124	2.480	1.765	0.173	0.518	2.712

21. RISULTATI ANALISI SISMICHE

21.1. LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

- 9. Esk** caso di carico sismico con analisi statica equivalente
- 10. Edk** caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l'azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	di	Angolo di ingresso dell'azione sismica orizzontale	
Fattore di importanza	di	Fattore di importanza dell'edificio, in base alla categoria di appartenenza	
Zona sismica		Zona sismica	
Accelerazione	ag	Accelerazione orizzontale massima sul suolo	
Categoria suolo		Categoria di profilo stratigrafico del suolo di fondazione	
Fattore q		Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale	
Fattore di sito	S	Fattore dipendente dalla stratigrafia e dal profilo topografico	
Classe di duttilità CD	di	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa	
Fattore SLD	riduz.	Fattore di riduzione dello spettro elastico per lo stato limite di danno	
Periodo proprio T1	proprio	Periodo proprio di vibrazione della struttura	
Coefficiente Lambda		Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura	

Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)	
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)	
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante	
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica	

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

- a) **analisi sismica statica equivalente:**
 - quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - azione sismica complessiva
- b) **analisi sismica dinamica con spettro di risposta:**
 - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
 - massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione η_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione η_T , η_P e η_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento d_E , area ridotta e dimensione A_2 , azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A.

In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore	
Cmb	Combinazione oggetto della verifica	
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata	
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%	
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta Ar (per dispositivi circolari)	
V	Azione verticale agente	
Ar	Area ridotta efficace	
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione	
Sig s	Tensione nell' inserto in acciaio	
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero	
Vcr	Carico critico per instabilità	

Affinché la verifica sia positiva deve essere:

- 1) $V > 0$
- 2) $Sig s < f_{yk}$
- 3) $Gam t < 5$
- 4) $Gam s < Gam * (caratteristica dell' elastomero)$
- 5) $Gam s < 2$
- 6) $V < 0.5 V_{cr}$

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-δ
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE

75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

CDC	Tipo	Sigla Id	Note
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.186
			ordinata spettro (tratto Tb-Tc) = 0.635 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.154 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	0.0	-15.80	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.918	0.169	0.635	82.45	1.7	4.28e-04	8.71e-06	0.0	0.0	0.0	0.0
2	5.925	0.169	0.635	1.28e-04	2.60e-06	40.77	0.8	4.70e-04	9.57e-06	0.0	0.0
3	6.208	0.161	0.617	55.96	1.1	5.78e-05	1.18e-06	2.73e-06	0.0	0.0	0.0
4	6.399	0.156	0.606	0.01	2.25e-04	0.71	1.45e-02	0.0	0.0	0.0	0.0
5	6.401	0.156	0.606	94.42	1.9	6.02e-05	1.23e-06	0.0	0.0	0.0	0.0
6	6.457	0.155	0.603	0.02	3.83e-04	57.91	1.2	8.24e-05	1.68e-06	0.0	0.0
7	6.463	0.155	0.603	1115.44	22.7	0.01	2.92e-04	1.07e-05	0.0	0.0	0.0
8	6.475	0.154	0.602	1256.30	25.6	3.93e-05	0.0	2.07e-05	0.0	0.0	0.0
9	6.520	0.153	0.600	0.73	1.49e-02	99.99	2.0	6.97e-05	1.42e-06	0.0	0.0
10	6.526	0.153	0.600	83.77	1.7	1.80	3.67e-02	0.0	0.0	0.0	0.0
11	6.552	0.153	0.598	0.89	1.81e-02	523.44	10.7	1.62e-04	3.29e-06	0.0	0.0
12	6.557	0.153	0.598	4.22	8.59e-02	134.39	2.7	1.27e-04	2.59e-06	0.0	0.0
13	6.707	0.149	0.590	2.39e-03	4.87e-05	200.48	4.1	1.35e-04	2.74e-06	0.0	0.0
14	6.816	0.147	0.585	1.06e-03	2.16e-05	161.05	3.3	1.09e-03	2.21e-05	0.0	0.0
15	6.850	0.146	0.583	71.57	1.5	6.27e-03	1.28e-04	1.63e-05	0.0	0.0	0.0
16	6.895	0.145	0.581	0.32	6.45e-03	9.26	0.2	7.15e-05	1.46e-06	0.0	0.0
17	6.907	0.145	0.581	0.28	5.64e-03	9.08	0.2	1.84e-04	3.74e-06	0.0	0.0
18	6.927	0.144	0.580	18.39	0.4	0.02	5.07e-04	4.27e-05	0.0	0.0	0.0
19	6.963	0.144	0.578	0.04	8.93e-04	26.59	0.5	1.84e-05	0.0	0.0	0.0
20	7.003	0.143	0.576	0.19	3.77e-03	28.72	0.6	0.01	2.27e-04	0.0	0.0
21	7.020	0.142	0.575	33.16	0.7	0.19	3.94e-03	2.81e-04	5.71e-06	0.0	0.0
22	7.047	0.142	0.574	6.53	0.1	0.46	9.37e-03	4.24e-05	0.0	0.0	0.0
23	7.100	0.141	0.572	0.19	3.96e-03	0.98	2.00e-02	8.06e-05	1.64e-06	0.0	0.0
24	7.210	0.139	0.567	5.79e-03	1.18e-04	2.64	5.37e-02	3.08e-03	6.27e-05	0.0	0.0
25	7.285	0.137	0.564	1.51	3.06e-02	0.11	2.24e-03	2.85e-05	0.0	0.0	0.0
26	7.311	0.137	0.563	5.23	0.1	0.04	7.91e-04	2.00e-04	4.06e-06	0.0	0.0
27	7.450	0.134	0.557	8.27e-04	1.68e-05	12.18	0.2	6.01e-04	1.22e-05	0.0	0.0
28	7.577	0.132	0.552	12.19	0.2	1.54e-03	3.13e-05	0.0	0.0	0.0	0.0
29	7.774	0.129	0.544	6.88e-04	1.40e-05	0.69	1.40e-02	2.58e-04	5.25e-06	0.0	0.0
30	7.934	0.126	0.538	8.72	0.2	1.36e-05	0.0	1.05e-06	0.0	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X % x g	M efficace Y % x g	M efficace Z % x g	Energia	Energia x v			
31	8.174	0.122	0.530	4.60e-03	9.36e-05	1.74	3.55e-02	5.05e-04	1.03e-05	0.0	0.0
32	8.341	0.120	0.525	77.69	1.6	1.21e-04	2.46e-06	7.87e-06	0.0	0.0	0.0
33	8.476	0.118	0.520	0.18	3.66e-03	3.37e-03	6.85e-05	9.65e-04	1.96e-05	0.0	0.0
34	8.587	0.116	0.517	493.44	10.0	7.91e-05	1.61e-06	5.41e-06	0.0	0.0	0.0
35	8.735	0.114	0.512	3.10e-03	6.30e-05	3.58	7.29e-02	0.01	2.47e-04	0.0	0.0
36	8.887	0.113	0.508	214.89	4.4	2.76e-05	0.0	5.10e-05	1.04e-06	0.0	0.0
37	9.002	0.111	0.505	0.21	4.29e-03	0.36	7.29e-03	2.96e-03	6.02e-05	0.0	0.0
38	9.191	0.109	0.500	19.55	0.4	4.90e-03	9.96e-05	6.11e-04	1.24e-05	0.0	0.0
39	9.230	0.108	0.499	0.61	1.25e-02	1.02	2.07e-02	0.02	3.69e-04	0.0	0.0
40	9.276	0.108	0.497	6.86e-03	1.39e-04	26.45	0.5	0.02	3.46e-04	0.0	0.0
41	9.350	0.107	0.496	0.02	3.05e-04	0.25	5.19e-03	0.02	4.54e-04	0.0	0.0
42	10.112	0.099	0.477	5.17	0.1	0.05	1.09e-03	1.71e-05	0.0	0.0	0.0
43	10.121	0.099	0.477	1.50e-03	3.05e-05	143.61	2.9	1.05e-03	2.14e-05	0.0	0.0
44	10.715	0.093	0.465	1.59e-05	0.0	1.51	3.08e-02	1.12e-04	2.27e-06	0.0	0.0
45	10.849	0.092	0.462	2.81e-06	0.0	1437.46	29.2	9.98e-04	2.03e-05	0.0	0.0
46	11.229	0.089	0.455	0.13	2.68e-03	0.30	6.11e-03	0.0	0.0	0.0	0.0
47	11.474	0.087	0.451	1.17e-04	2.38e-06	148.93	3.0	2.80e-04	5.70e-06	0.0	0.0
48	13.152	0.076	0.426	5.99e-03	1.22e-04	808.37	16.4	0.23	4.75e-03	0.0	0.0
49	13.218	0.076	0.425	0.01	2.60e-04	73.62	1.5	6.87	0.1	0.0	0.0
50	13.332	0.075	0.424	28.33	0.6	1.34	2.72e-02	0.03	6.71e-04	0.0	0.0
51	13.526	0.074	0.421	0.04	7.70e-04	34.81	0.7	49.26	1.0	0.0	0.0
52	13.660	0.073	0.420	0.18	3.68e-03	709.78	14.4	2.32	4.72e-02	0.0	0.0
53	13.937	0.072	0.416	810.03	16.5	0.17	3.42e-03	0.19	3.84e-03	0.0	0.0
54	14.056	0.071	0.415	0.12	2.39e-03	0.12	2.46e-03	1439.35	29.3	0.0	0.0
55	14.535	0.069	0.410	3.19	6.48e-02	81.29	1.7	16.54	0.3	0.0	0.0
56	14.601	0.068	0.409	0.89	1.81e-02	23.66	0.5	45.82	0.9	0.0	0.0
57	14.652	0.068	0.409	40.98	0.8	8.17	0.2	0.02	3.54e-04	0.0	0.0
58	14.934	0.067	0.406	2.66e-03	5.42e-05	3.95e-03	8.03e-05	660.06	13.4	0.0	0.0
59	15.058	0.066	0.404	346.94	7.1	6.53e-03	1.33e-04	1.77e-03	3.61e-05	0.0	0.0
60	17.921	0.056	0.381	1.81e-05	0.0	66.07	1.3	3.90e-06	0.0	0.0	0.0
61	18.447	0.054	0.377	0.02	4.89e-04	0.01	2.74e-04	0.0	0.0	0.0	0.0
62	22.714	0.044	0.354	1.56e-06	0.0	5.81	0.1	8.44e-06	0.0	0.0	0.0
63	24.896	0.040	0.345	1.14e-06	0.0	5.52	0.1	2.85e-05	0.0	0.0	0.0
64	30.817	0.032	0.328	1.07e-03	2.18e-05	0.01	3.02e-04	11.36	0.2	0.0	0.0
65	31.537	0.032	0.326	0.77	1.57e-02	2.55e-04	5.19e-06	0.61	1.23e-02	0.0	0.0
66	33.177	0.030	0.323	2.10e-04	4.28e-06	0.19	3.89e-03	31.64	0.6	0.0	0.0
67	34.556	0.029	0.320	2.76e-04	5.62e-06	4.38	8.91e-02	2.01	4.08e-02	0.0	0.0
68	36.371	0.027	0.317	0.48	9.78e-03	6.99e-04	1.42e-05	0.01	2.14e-04	0.0	0.0
69	39.424	0.025	0.312	1.86e-04	3.78e-06	6.82e-03	1.39e-04	1103.76	22.5	0.0	0.0
70	42.496	0.024	0.308	8.13e-04	1.65e-05	0.15	3.10e-03	63.62	1.3	0.0	0.0
71	45.280	0.022	0.305	1.24e-05	0.0	13.52	0.3	0.13	2.62e-03	0.0	0.0
72	73.904	0.014	0.285	15.11	0.3	3.92e-06	0.0	2.36e-03	4.80e-05	0.0	0.0
73	100.869	0.010	0.277	3.44e-03	7.00e-05	0.01	2.95e-04	213.13	4.3	0.0	0.0
74	104.598	0.010	0.277	7.56e-04	1.54e-05	0.39	7.89e-03	9.10	0.2	0.0	0.0
75	117.945	0.008	0.274	2.66	5.41e-02	1.44e-04	2.92e-06	0.23	4.59e-03	0.0	0.0
76	205.935	0.005	0.266	7.52e-05	1.53e-06	6.43e-05	1.31e-06	951.69	19.4	0.0	0.0
Risul ta In perc entu ale				4914.23		4914.24		4608.06			
				99.99		99.99		93.76			

CDC	Tipo	Sigla Id	Note
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.186
			ordinata spettro (tratto Tb-Tc) = 0.635 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.154 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	0.0	15.80	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.918	0.169	0.635	82.45	1.7	4.28e-04	8.71e-06	0.0	0.0	0.0	0.0
2	5.925	0.169	0.635	1.28e-04	2.60e-06	40.77	0.8	4.70e-04	9.57e-06	0.0	0.0
3	6.208	0.161	0.617	55.96	1.1	5.78e-05	1.18e-06	2.73e-06	0.0	0.0	0.0
4	6.399	0.156	0.606	0.01	2.25e-04	0.71	1.45e-02	0.0	0.0	0.0	0.0
5	6.401	0.156	0.606	94.42	1.9	6.02e-05	1.23e-06	0.0	0.0	0.0	0.0
6	6.457	0.155	0.603	0.02	3.83e-04	57.91	1.2	8.24e-05	1.68e-06	0.0	0.0
7	6.463	0.155	0.603	1115.44	22.7	0.01	2.92e-04	1.07e-05	0.0	0.0	0.0
8	6.475	0.154	0.602	1256.30	25.6	3.93e-05	0.0	2.07e-05	0.0	0.0	0.0
9	6.520	0.153	0.600	0.73	1.49e-02	99.99	2.0	6.97e-05	1.42e-06	0.0	0.0
10	6.526	0.153	0.600	83.77	1.7	1.80	3.67e-02	0.0	0.0	0.0	0.0
11	6.552	0.153	0.598	0.89	1.81e-02	523.44	10.7	1.62e-04	3.29e-06	0.0	0.0
12	6.557	0.153	0.598	4.22	8.59e-02	134.39	2.7	1.27e-04	2.59e-06	0.0	0.0
13	6.707	0.149	0.590	2.39e-03	4.87e-05	200.48	4.1	1.35e-04	2.74e-06	0.0	0.0
14	6.816	0.147	0.585	1.06e-03	2.16e-05	161.05	3.3	1.09e-03	2.21e-05	0.0	0.0
15	6.850	0.146	0.583	71.57	1.5	6.27e-03	1.28e-04	1.63e-05	0.0	0.0	0.0
16	6.895	0.145	0.581	0.32	6.45e-03	9.26	0.2	7.15e-05	1.46e-06	0.0	0.0
17	6.907	0.145	0.581	0.28	5.64e-03	9.08	0.2	1.84e-04	3.74e-06	0.0	0.0
18	6.927	0.144	0.580	18.39	0.4	0.02	5.07e-04	4.27e-05	0.0	0.0	0.0
19	6.963	0.144	0.578	0.04	8.93e-04	26.59	0.5	1.84e-05	0.0	0.0	0.0
20	7.003	0.143	0.576	0.19	3.77e-03	28.72	0.6	0.01	2.27e-04	0.0	0.0
21	7.020	0.142	0.575	33.16	0.7	0.19	3.94e-03	2.81e-04	5.71e-06	0.0	0.0
22	7.047	0.142	0.574	6.53	0.1	0.46	9.37e-03	4.24e-05	0.0	0.0	0.0
23	7.100	0.141	0.572	0.19	3.96e-03	0.98	2.00e-02	8.06e-05	1.64e-06	0.0	0.0
24	7.210	0.139	0.567	5.79e-03	1.18e-04	2.64	5.37e-02	3.08e-03	6.27e-05	0.0	0.0
25	7.285	0.137	0.564	1.51	3.06e-02	0.11	2.24e-03	2.85e-05	0.0	0.0	0.0
26	7.311	0.137	0.563	5.23	0.1	0.04	7.91e-04	2.00e-04	4.06e-06	0.0	0.0
27	7.450	0.134	0.557	8.27e-04	1.68e-05	12.18	0.2	6.01e-04	1.22e-05	0.0	0.0
28	7.577	0.132	0.552	12.19	0.2	1.54e-03	3.13e-05	0.0	0.0	0.0	0.0
29	7.774	0.129	0.544	6.88e-04	1.40e-05	0.69	1.40e-02	2.58e-04	5.25e-06	0.0	0.0
30	7.934	0.126	0.538	8.72	0.2	1.36e-05	0.0	1.05e-06	0.0	0.0	0.0
31	8.174	0.122	0.530	4.60e-03	9.36e-05	1.74	3.55e-02	5.05e-04	1.03e-05	0.0	0.0
32	8.341	0.120	0.525	77.69	1.6	1.21e-04	2.46e-06	7.87e-06	0.0	0.0	0.0
33	8.476	0.118	0.520	0.18	3.66e-03	3.37e-03	6.85e-05	9.65e-04	1.96e-05	0.0	0.0
34	8.587	0.116	0.517	493.44	10.0	7.91e-05	1.61e-06	5.41e-06	0.0	0.0	0.0
35	8.735	0.114	0.512	3.10e-03	6.30e-05	3.58	7.29e-02	0.01	2.47e-04	0.0	0.0
36	8.887	0.113	0.508	214.89	4.4	2.76e-05	0.0	5.10e-05	1.04e-06	0.0	0.0
37	9.002	0.111	0.505	0.21	4.29e-03	0.36	7.29e-03	2.96e-03	6.02e-05	0.0	0.0
38	9.191	0.109	0.500	19.55	0.4	4.90e-03	9.96e-05	6.11e-04	1.24e-05	0.0	0.0
39	9.230	0.108	0.499	0.61	1.25e-02	1.02	2.07e-02	0.02	3.69e-04	0.0	0.0
40	9.276	0.108	0.497	6.86e-03	1.39e-04	26.45	0.5	0.02	3.46e-04	0.0	0.0
41	9.350	0.107	0.496	0.02	3.05e-04	0.25	5.19e-03	0.02	4.54e-04	0.0	0.0
42	10.112	0.099	0.477	5.17	0.1	0.05	1.09e-03	1.71e-05	0.0	0.0	0.0
43	10.121	0.099	0.477	1.50e-03	3.05e-05	143.61	2.9	1.05e-03	2.14e-05	0.0	0.0
44	10.715	0.093	0.465	1.59e-05	0.0	1.51	3.08e-02	1.12e-04	2.27e-06	0.0	0.0
45	10.849	0.092	0.462	2.81e-06	0.0	1437.46	29.2	9.98e-04	2.03e-05	0.0	0.0
46	11.229	0.089	0.455	0.13	2.68e-03	0.30	6.11e-03	0.0	0.0	0.0	0.0
47	11.474	0.087	0.451	1.17e-04	2.38e-06	148.93	3.0	2.80e-04	5.70e-06	0.0	0.0
48	13.152	0.076	0.426	5.99e-03	1.22e-04	808.37	16.4	0.23	4.75e-03	0.0	0.0
49	13.218	0.076	0.425	0.01	2.60e-04	73.62	1.5	6.87	0.1	0.0	0.0
50	13.332	0.075	0.424	28.33	0.6	1.34	2.72e-02	0.03	6.71e-04	0.0	0.0
51	13.526	0.074	0.421	0.04	7.70e-04	34.81	0.7	49.26	1.0	0.0	0.0
52	13.660	0.073	0.420	0.18	3.68e-03	709.78	14.4	2.32	4.72e-02	0.0	0.0
53	13.937	0.072	0.416	810.03	16.5	0.17	3.42e-03	0.19	3.84e-03	0.0	0.0
54	14.056	0.071	0.415	0.12	2.39e-03	0.12	2.46e-03	1439.35	29.3	0.0	0.0
55	14.535	0.069	0.410	3.19	6.48e-02	81.29	1.7	16.54	0.3	0.0	0.0
56	14.601	0.068	0.409	0.89	1.81e-02	23.66	0.5	45.82	0.9	0.0	0.0
57	14.652	0.068	0.409	40.98	0.8	8.17	0.2	0.02	3.54e-04	0.0	0.0
58	14.934	0.067	0.406	2.66e-03	5.42e-05	3.95e-03	8.03e-05	660.06	13.4	0.0	0.0
59	15.058	0.066	0.404	346.94	7.1	6.53e-03	1.33e-04	1.77e-03	3.61e-05	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X % x g	M efficace Y % x g	M efficace Z % x g	Energia	Energia x v		
60	17.921	0.056	0.381	1.81e-05	0.0	66.07	1.3	3.90e-06	0.0	0.0
61	18.447	0.054	0.377	0.02	4.89e-04	0.01	2.74e-04	0.0	0.0	0.0
62	22.714	0.044	0.354	1.56e-06	0.0	5.81	0.1	8.44e-06	0.0	0.0
63	24.896	0.040	0.345	1.14e-06	0.0	5.52	0.1	2.85e-05	0.0	0.0
64	30.817	0.032	0.328	1.07e-03	2.18e-05	0.01	3.02e-04	11.36	0.2	0.0
65	31.537	0.032	0.326	0.77	1.57e-02	2.55e-04	5.19e-06	0.61	1.23e-02	0.0
66	33.177	0.030	0.323	2.10e-04	4.28e-06	0.19	3.89e-03	31.64	0.6	0.0
67	34.556	0.029	0.320	2.76e-04	5.62e-06	4.38	8.91e-02	2.01	4.08e-02	0.0
68	36.371	0.027	0.317	0.48	9.78e-03	6.99e-04	1.42e-05	0.01	2.14e-04	0.0
69	39.424	0.025	0.312	1.86e-04	3.78e-06	6.82e-03	1.39e-04	1103.76	22.5	0.0
70	42.496	0.024	0.308	8.13e-04	1.65e-05	0.15	3.10e-03	63.62	1.3	0.0
71	45.280	0.022	0.305	1.24e-05	0.0	13.52	0.3	0.13	2.62e-03	0.0
72	73.904	0.014	0.285	15.11	0.3	3.92e-06	0.0	2.36e-03	4.80e-05	0.0
73	100.869	0.010	0.277	3.44e-03	7.00e-05	0.01	2.95e-04	213.13	4.3	0.0
74	104.598	0.010	0.277	7.56e-04	1.54e-05	0.39	7.89e-03	9.10	0.2	0.0
75	117.945	0.008	0.274	2.66	5.41e-02	1.44e-04	2.92e-06	0.23	4.59e-03	0.0
76	205.935	0.005	0.266	7.52e-05	1.53e-06	6.43e-05	1.31e-06	951.69	19.4	0.0
Risul ta				4914.23		4914.24		4608.06		
In perc entu ale				99.99		99.99		93.76		

CDC	Tipo	Sigla Id	Note
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.186
			ordinata spettro (tratto Tb-Tc) = 0.635 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.075 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	213.78	0.0	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	X %	M efficace Y x g	Y %	M efficace Z x g	Z %	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.012	0.166	0.629	0.0	0.0	94.15	1.9	0.0	0.0	0.0	0.0
2	6.222	0.161	0.616	0.0	0.0	12.29	0.3	0.0	0.0	0.0	0.0
3	6.435	0.155	0.605	0.0	0.0	557.40	11.3	0.0	0.0	0.0	0.0
4	6.459	0.155	0.603	0.0	0.0	30.42	0.6	0.0	0.0	0.0	0.0
5	6.564	0.152	0.598	0.0	0.0	80.48	1.6	0.0	0.0	0.0	0.0
6	6.640	0.151	0.594	0.0	0.0	138.56	2.8	0.0	0.0	0.0	0.0
7	6.671	0.150	0.592	0.0	0.0	4.75	9.66e-02	0.0	0.0	0.0	0.0
8	6.696	0.149	0.591	0.0	0.0	243.43	5.0	0.0	0.0	0.0	0.0
9	6.784	0.147	0.587	0.0	0.0	25.94	0.5	0.0	0.0	0.0	0.0
10	6.823	0.147	0.585	0.0	0.0	8.27	0.2	0.0	0.0	0.0	0.0
11	6.851	0.146	0.583	3579.23	72.8	0.0	0.0	5.63e-05	1.15e-06	0.0	0.0
12	6.903	0.145	0.581	0.0	0.0	71.07	1.4	0.0	0.0	0.0	0.0
13	6.949	0.144	0.579	0.0	0.0	73.14	1.5	0.0	0.0	0.0	0.0
14	7.213	0.139	0.567	0.0	0.0	16.44	0.3	0.0	0.0	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
15	7.254	0.138	0.565	0.0	0.0	7.96	0.2	0.0	0.0	0.0	0.0
16	7.547	0.133	0.553	0.0	0.0	10.42	0.2	0.0	0.0	0.0	0.0
17	7.866	0.127	0.541	0.0	0.0	1.02	2.08e-02	0.0	0.0	0.0	0.0
18	8.000	0.125	0.536	0.02	3.23e-04	0.0	0.0	0.03	6.51e-04	0.0	0.0
19	8.119	0.123	0.532	5.49e-05	1.12e-06	0.0	0.0	7.63e-04	1.55e-05	0.0	0.0
20	8.146	0.123	0.531	0.0	0.0	0.0	0.0	1.13e-03	2.29e-05	0.0	0.0
21	8.154	0.123	0.531	0.02	5.00e-04	0.0	0.0	1.57e-04	3.20e-06	0.0	0.0
22	8.160	0.123	0.531	6.40e-04	1.30e-05	4.95e-05	1.01e-06	4.22e-04	8.58e-06	0.0	0.0
23	8.162	0.123	0.531	7.21e-03	1.47e-04	5.50e-05	1.12e-06	8.19e-05	1.67e-06	0.0	0.0
24	8.164	0.122	0.531	0.02	3.58e-04	1.54e-04	3.13e-06	1.02e-03	2.08e-05	0.0	0.0
25	8.164	0.122	0.530	0.01	2.75e-04	1.77e-05	0.0	1.12e-03	2.28e-05	0.0	0.0
26	8.166	0.122	0.530	1.95e-04	3.97e-06	1.60e-06	0.0	0.04	7.99e-04	0.0	0.0
27	8.166	0.122	0.530	0.17	3.40e-03	2.98e-05	0.0	3.96e-05	0.0	0.0	0.0
28	8.168	0.122	0.530	2.97e-04	6.04e-06	2.38e-03	4.84e-05	4.25e-06	0.0	0.0	0.0
29	8.350	0.120	0.524	0.0	0.0	0.73	1.48e-02	0.0	0.0	0.0	0.0
30	9.151	0.109	0.501	0.0	0.0	0.39	7.93e-03	0.0	0.0	0.0	0.0
31	9.816	0.102	0.484	0.0	0.0	139.39	2.8	0.0	0.0	0.0	0.0
32	10.555	0.095	0.468	0.0	0.0	895.65	18.2	0.0	0.0	0.0	0.0
33	11.066	0.090	0.458	0.0	0.0	609.66	12.4	0.0	0.0	0.0	0.0
34	12.160	0.082	0.440	0.0	0.0	128.59	2.6	0.0	0.0	0.0	0.0
35	13.169	0.076	0.426	7.32	0.1	7.80e-03	1.59e-04	0.02	4.88e-04	0.0	0.0
36	13.196	0.076	0.425	0.05	9.48e-04	4.26e-04	8.66e-06	3.57	7.27e-02	0.0	0.0
37	13.304	0.075	0.424	9.47	0.2	16.67	0.3	5.03e-03	1.02e-04	0.0	0.0
38	13.319	0.075	0.424	0.17	3.43e-03	1174.77	23.9	4.15e-05	0.0	0.0	0.0
39	13.371	0.075	0.423	6.37e-05	1.30e-06	0.02	4.93e-04	18.60	0.4	0.0	0.0
40	13.494	0.074	0.422	51.97	1.1	0.21	4.24e-03	1.97e-03	4.00e-05	0.0	0.0
41	13.617	0.073	0.420	0.08	1.69e-03	9.03e-03	1.84e-04	33.78	0.7	0.0	0.0
42	13.786	0.073	0.418	231.92	4.7	0.66	1.34e-02	0.04	8.20e-04	0.0	0.0
43	13.869	0.072	0.417	538.46	11.0	0.58	1.19e-02	1.08	2.19e-02	0.0	0.0
44	13.885	0.072	0.417	4.00	8.13e-02	2.96e-05	0.0	90.19	1.8	0.0	0.0
45	13.978	0.072	0.416	123.73	2.5	0.44	8.98e-03	0.25	5.04e-03	0.0	0.0
46	14.071	0.071	0.415	0.05	9.67e-04	2.96e-04	6.02e-06	1371.15	27.9	0.0	0.0
47	14.438	0.069	0.411	1.99e-03	4.04e-05	408.79	8.3	2.70e-03	5.48e-05	0.0	0.0
48	14.634	0.068	0.409	0.01	2.98e-04	0.19	3.84e-03	9.25	0.2	0.0	0.0
49	14.796	0.068	0.407	11.45	0.2	0.21	4.37e-03	0.11	2.15e-03	0.0	0.0
50	14.863	0.067	0.406	0.07	1.43e-03	5.44e-03	1.11e-04	233.93	4.8	0.0	0.0
51	14.921	0.067	0.406	48.04	1.0	0.05	1.05e-03	3.41	6.94e-02	0.0	0.0
52	14.953	0.067	0.405	0.18	3.58e-03	1.58e-04	3.21e-06	455.31	9.3	0.0	0.0
53	15.043	0.066	0.405	288.76	5.9	8.06e-04	1.64e-05	9.02e-04	1.84e-05	0.0	0.0
54	15.782	0.063	0.398	0.0	0.0	103.54	2.1	0.0	0.0	0.0	0.0
55	20.473	0.049	0.365	0.0	0.0	30.81	0.6	0.0	0.0	0.0	0.0
56	23.755	0.042	0.350	0.0	0.0	0.87	1.78e-02	2.12e-06	0.0	0.0	0.0
57	24.264	0.041	0.348	0.0	0.0	6.78	0.1	0.0	0.0	0.0	0.0
58	30.450	0.033	0.329	0.23	4.72e-03	6.85e-05	1.39e-06	0.14	2.91e-03	0.0	0.0
59	30.822	0.032	0.328	0.01	3.02e-04	1.18e-03	2.40e-05	9.09	0.2	0.0	0.0
60	32.205	0.031	0.325	0.02	3.29e-04	0.16	3.28e-03	19.69	0.4	0.0	0.0
61	32.365	0.031	0.325	0.21	4.24e-03	2.41	4.90e-02	0.69	1.41e-02	0.0	0.0
62	32.434	0.031	0.324	0.29	5.87e-03	2.18	4.43e-02	0.10	2.06e-03	0.0	0.0
63	34.051	0.029	0.321	0.24	4.82e-03	0.01	2.07e-04	1.44e-03	2.93e-05	0.0	0.0
64	36.437	0.027	0.317	5.88e-04	1.20e-05	3.63e-04	7.38e-06	74.34	1.5	0.0	0.0
65	37.432	0.027	0.315	0.25	5.03e-03	4.09e-04	8.32e-06	0.01	2.75e-04	0.0	0.0
66	39.703	0.025	0.312	0.0	0.0	1.89e-05	0.0	1106.98	22.5	0.0	0.0
67	44.835	0.022	0.305	0.0	0.0	14.04	0.3	3.97e-04	8.07e-06	0.0	0.0
68	56.381	0.018	0.295	3.70e-03	7.53e-05	1.15e-03	2.34e-05	1.75	3.57e-02	0.0	0.0
69	67.435	0.015	0.288	1.89	3.84e-02	1.07e-04	2.17e-06	0.03	6.96e-04	0.0	0.0
70	75.115	0.013	0.285	13.01	0.3	1.94e-04	3.95e-06	0.04	8.71e-04	0.0	0.0
71	81.944	0.012	0.282	8.67e-03	1.76e-04	0.06	1.25e-03	32.82	0.7	0.0	0.0
72	83.102	0.012	0.282	0.01	2.24e-04	0.55	1.13e-02	3.81	7.74e-02	0.0	0.0
73	97.396	0.010	0.278	1.92	3.91e-02	2.41e-04	4.91e-06	0.11	2.22e-03	0.0	0.0
74	118.138	0.008	0.274	2.33e-04	4.75e-06	2.34e-05	0.0	321.71	6.5	0.0	0.0
75	187.977	0.005	0.267	1.29	2.63e-02	6.39e-06	0.0	0.07	1.34e-03	0.0	0.0
76	241.926	0.004	0.264	6.49e-05	1.32e-06	2.31e-06	0.0	930.64	18.9	0.0	0.0
Risul ta				4914.58		4914.20		4722.80			
In perc entu ale				100.00		99.99		96.10			

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.186
			ordinata spettro (tratto Tb-Tc) = 0.635 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.074 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	-213.78	0.0	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.012	0.166	0.629	0.0	0.0	94.16	1.9	0.0	0.0	0.0	0.0
2	6.222	0.161	0.616	0.0	0.0	12.29	0.3	0.0	0.0	0.0	0.0
3	6.434	0.155	0.605	0.0	0.0	563.22	11.5	0.0	0.0	0.0	0.0
4	6.460	0.155	0.603	0.0	0.0	31.32	0.6	0.0	0.0	0.0	0.0
5	6.560	0.152	0.598	0.0	0.0	78.31	1.6	0.0	0.0	0.0	0.0
6	6.627	0.151	0.594	0.0	0.0	71.67	1.5	0.0	0.0	0.0	0.0
7	6.675	0.150	0.592	0.0	0.0	43.29	0.9	0.0	0.0	0.0	0.0
8	6.691	0.149	0.591	0.0	0.0	245.62	5.0	0.0	0.0	0.0	0.0
9	6.762	0.148	0.588	0.0	0.0	53.42	1.1	0.0	0.0	0.0	0.0
10	6.802	0.147	0.586	0.0	0.0	1.16	2.36e-02	0.0	0.0	0.0	0.0
11	6.851	0.146	0.583	3579.23	72.8	0.0	0.0	5.63e-05	1.15e-06	0.0	0.0
12	6.918	0.145	0.580	0.0	0.0	125.80	2.6	0.0	0.0	0.0	0.0
13	6.985	0.143	0.577	0.0	0.0	20.05	0.4	0.0	0.0	0.0	0.0
14	7.227	0.138	0.566	0.0	0.0	23.68	0.5	0.0	0.0	0.0	0.0
15	7.533	0.133	0.554	0.0	0.0	9.96	0.2	0.0	0.0	0.0	0.0
16	7.736	0.129	0.546	0.0	0.0	1.54	3.14e-02	0.0	0.0	0.0	0.0
17	8.000	0.125	0.536	0.02	3.23e-04	0.0	0.0	0.03	6.51e-04	0.0	0.0
18	8.119	0.123	0.532	5.49e-05	1.12e-06	0.0	0.0	7.62e-04	1.55e-05	0.0	0.0
19	8.146	0.123	0.531	0.0	0.0	0.38	7.78e-03	1.06e-04	2.15e-06	0.0	0.0
20	8.146	0.123	0.531	0.0	0.0	0.04	9.03e-04	1.02e-03	2.08e-05	0.0	0.0
21	8.154	0.123	0.531	0.02	5.00e-04	1.97e-05	0.0	1.57e-04	3.19e-06	0.0	0.0
22	8.160	0.123	0.531	6.06e-04	1.23e-05	4.75e-03	9.67e-05	4.91e-04	9.99e-06	0.0	0.0
23	8.162	0.123	0.531	8.16e-03	1.66e-04	2.11e-03	4.30e-05	4.13e-05	0.0	0.0	0.0
24	8.164	0.122	0.531	0.02	3.73e-04	4.39e-03	8.93e-05	1.16e-03	2.36e-05	0.0	0.0
25	8.164	0.122	0.530	0.01	2.88e-04	4.25e-04	8.65e-06	1.06e-03	2.16e-05	0.0	0.0
26	8.166	0.122	0.530	2.86e-03	5.82e-05	1.31e-06	0.0	0.04	7.86e-04	0.0	0.0
27	8.166	0.122	0.530	0.16	3.31e-03	2.74e-04	5.58e-06	5.86e-04	1.19e-05	0.0	0.0
28	8.173	0.122	0.530	0.0	0.0	0.21	4.35e-03	0.0	0.0	0.0	0.0
29	8.541	0.117	0.518	0.0	0.0	0.43	8.82e-03	0.0	0.0	0.0	0.0
30	9.802	0.102	0.484	0.0	0.0	130.79	2.7	0.0	0.0	0.0	0.0
31	10.486	0.095	0.470	0.0	0.0	610.66	12.4	0.0	0.0	0.0	0.0
32	10.838	0.092	0.463	0.0	0.0	676.41	13.8	0.0	0.0	0.0	0.0
33	11.353	0.088	0.453	0.0	0.0	270.48	5.5	0.0	0.0	0.0	0.0
34	12.777	0.078	0.431	0.0	0.0	273.43	5.6	0.0	0.0	0.0	0.0
35	13.169	0.076	0.426	7.35	0.1	0.01	2.57e-04	1.18e-03	2.40e-05	0.0	0.0
36	13.196	0.076	0.425	6.63e-05	1.35e-06	0.02	4.71e-04	3.60	7.32e-02	0.0	0.0
37	13.304	0.075	0.424	9.50	0.2	0.64	1.31e-02	6.03e-03	1.23e-04	0.0	0.0
38	13.370	0.075	0.423	4.10e-03	8.34e-05	0.76	1.55e-02	18.58	0.4	0.0	0.0
39	13.449	0.074	0.422	0.32	6.52e-03	1113.00	22.6	0.04	7.75e-04	0.0	0.0
40	13.493	0.074	0.422	51.21	1.0	8.11	0.2	1.76e-04	3.59e-06	0.0	0.0
41	13.617	0.073	0.420	0.04	7.96e-04	0.78	1.59e-02	33.77	0.7	0.0	0.0
42	13.767	0.073	0.418	136.43	2.8	2.23	4.53e-02	0.04	7.72e-04	0.0	0.0
43	13.856	0.072	0.417	601.42	12.2	0.62	1.26e-02	0.75	1.52e-02	0.0	0.0
44	13.885	0.072	0.417	3.69	7.50e-02	0.45	9.11e-03	90.16	1.8	0.0	0.0

o	Frequenza	Periodo	Acc. Spettrale	M efficace X % x g	M efficace Y % x g	M efficace Z % x g	Energia	Energia x v			
45	13.970	0.072	0.416	157.21	3.2	0.33	6.68e-03	0.06	1.28e-03	0.0	0.0
46	14.071	0.071	0.415	0.02	4.14e-04	0.01	3.05e-04	1371.70	27.9	0.0	0.0
47	14.629	0.068	0.409	4.45e-03	9.06e-05	29.09	0.6	8.11	0.2	0.0	0.0
48	14.722	0.068	0.408	0.14	2.90e-03	289.63	5.9	2.13	4.33e-02	0.0	0.0
49	14.791	0.068	0.407	10.29	0.2	7.81	0.2	0.02	3.12e-04	0.0	0.0
50	14.864	0.067	0.406	0.08	1.60e-03	1.15	2.34e-02	234.51	4.8	0.0	0.0
51	14.919	0.067	0.406	48.67	1.0	0.29	5.83e-03	3.25	6.61e-02	0.0	0.0
52	14.953	0.067	0.405	0.15	3.02e-03	0.06	1.22e-03	453.98	9.2	0.0	0.0
53	15.043	0.066	0.405	289.20	5.9	2.20e-03	4.47e-05	3.93e-03	8.00e-05	0.0	0.0
54	16.050	0.062	0.395	0.0	0.0	63.71	1.3	0.0	0.0	0.0	0.0
55	20.592	0.049	0.364	0.0	0.0	31.15	0.6	0.0	0.0	0.0	0.0
56	23.833	0.042	0.349	0.0	0.0	2.06	4.20e-02	1.97e-06	0.0	0.0	0.0
57	25.213	0.040	0.344	0.0	0.0	5.13	0.1	3.85e-06	0.0	0.0	0.0
58	30.450	0.033	0.329	0.23	4.78e-03	2.27e-04	4.62e-06	0.06	1.32e-03	0.0	0.0
59	30.818	0.032	0.328	9.95e-03	2.02e-04	5.47e-03	1.11e-04	9.17	0.2	0.0	0.0
60	32.203	0.031	0.325	0.05	9.54e-04	0.03	6.04e-04	19.53	0.4	0.0	0.0
61	32.386	0.031	0.324	0.45	9.16e-03	0.01	2.30e-04	0.82	1.66e-02	0.0	0.0
62	33.747	0.030	0.322	0.02	3.48e-04	4.44	9.02e-02	0.23	4.72e-03	0.0	0.0
63	33.972	0.029	0.321	0.23	4.77e-03	0.26	5.27e-03	0.11	2.18e-03	0.0	0.0
64	36.454	0.027	0.317	1.18e-03	2.41e-05	0.01	2.69e-04	74.57	1.5	0.0	0.0
65	37.415	0.027	0.315	0.25	5.09e-03	4.04e-04	8.21e-06	0.01	2.14e-04	0.0	0.0
66	39.704	0.025	0.312	6.19e-06	0.0	3.84e-04	7.81e-06	1106.54	22.5	0.0	0.0
67	45.215	0.022	0.305	0.0	0.0	13.53	0.3	6.25e-03	1.27e-04	0.0	0.0
68	56.699	0.018	0.295	5.27e-03	1.07e-04	0.02	3.29e-04	1.80	3.66e-02	0.0	0.0
69	67.406	0.015	0.288	1.84	3.74e-02	2.07e-03	4.21e-05	3.76e-03	7.64e-05	0.0	0.0
70	75.071	0.013	0.285	13.03	0.3	9.61e-04	1.95e-05	8.90e-03	1.81e-04	0.0	0.0
71	81.992	0.012	0.282	4.03e-03	8.20e-05	0.02	3.65e-04	35.49	0.7	0.0	0.0
72	90.998	0.011	0.280	0.06	1.25e-03	0.49	1.01e-02	2.29	4.66e-02	0.0	0.0
73	97.250	0.010	0.278	1.90	3.86e-02	8.72e-03	1.77e-04	0.03	6.01e-04	0.0	0.0
74	118.282	0.008	0.274	1.62e-05	0.0	7.15e-04	1.46e-05	321.28	6.5	0.0	0.0
75	187.669	0.005	0.267	1.30	2.64e-02	3.69e-05	0.0	1.29e-05	0.0	0.0	0.0
76	242.058	0.004	0.264	1.39e-06	0.0	4.68e-05	0.0	930.37	18.9	0.0	0.0
Risult				4914.58		4914.22		4723.11			
In perc entuale				100.00		99.99		96.10			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.268 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.154 sec.
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	0.0	-15.80	0.0	0.0	1.081	0.0	0.0
Risultata	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.918	0.169	0.268	82.45	1.7	4.28e-04	8.71e-06	0.0	0.0	0.0	0.0
2	5.925	0.169	0.268	1.28e-04	2.60e-06	40.77	0.8	4.70e-04	9.57e-06	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
3	6.208	0.161	0.268	55.96	1.1	5.78e-05	1.18e-06	2.73e-06	0.0	0.0	0.0
4	6.399	0.156	0.268	0.01	2.25e-04	0.71	1.45e-02	0.0	0.0	0.0	0.0
5	6.401	0.156	0.268	94.42	1.9	6.02e-05	1.23e-06	0.0	0.0	0.0	0.0
6	6.457	0.155	0.268	0.02	3.83e-04	57.91	1.2	8.24e-05	1.68e-06	0.0	0.0
7	6.463	0.155	0.268	1115.44	22.7	0.01	2.92e-04	1.07e-05	0.0	0.0	0.0
8	6.475	0.154	0.268	1256.30	25.6	3.93e-05	0.0	2.07e-05	0.0	0.0	0.0
9	6.520	0.153	0.268	0.73	1.49e-02	99.99	2.0	6.97e-05	1.42e-06	0.0	0.0
10	6.526	0.153	0.268	83.77	1.7	1.80	3.67e-02	0.0	0.0	0.0	0.0
11	6.552	0.153	0.268	0.89	1.81e-02	523.44	10.7	1.62e-04	3.29e-06	0.0	0.0
12	6.557	0.153	0.268	4.22	8.59e-02	134.39	2.7	1.27e-04	2.59e-06	0.0	0.0
13	6.707	0.149	0.266	2.39e-03	4.87e-05	200.48	4.1	1.35e-04	2.74e-06	0.0	0.0
14	6.816	0.147	0.263	1.06e-03	2.16e-05	161.05	3.3	1.09e-03	2.21e-05	0.0	0.0
15	6.850	0.146	0.262	71.57	1.5	6.27e-03	1.28e-04	1.63e-05	0.0	0.0	0.0
16	6.895	0.145	0.261	0.32	6.45e-03	9.26	0.2	7.15e-05	1.46e-06	0.0	0.0
17	6.907	0.145	0.261	0.28	5.64e-03	9.08	0.2	1.84e-04	3.74e-06	0.0	0.0
18	6.927	0.144	0.261	18.39	0.4	0.02	5.07e-04	4.27e-05	0.0	0.0	0.0
19	6.963	0.144	0.260	0.04	8.93e-04	26.59	0.5	1.84e-05	0.0	0.0	0.0
20	7.003	0.143	0.259	0.19	3.77e-03	28.72	0.6	0.01	2.27e-04	0.0	0.0
21	7.020	0.142	0.259	33.16	0.7	0.19	3.94e-03	2.81e-04	5.71e-06	0.0	0.0
22	7.047	0.142	0.258	6.53	0.1	0.46	9.37e-03	4.24e-05	0.0	0.0	0.0
23	7.100	0.141	0.257	0.19	3.96e-03	0.98	2.00e-02	8.06e-05	1.64e-06	0.0	0.0
24	7.210	0.139	0.255	5.79e-03	1.18e-04	2.64	5.37e-02	3.08e-03	6.27e-05	0.0	0.0
25	7.285	0.137	0.253	1.51	3.06e-02	0.11	2.24e-03	2.85e-05	0.0	0.0	0.0
26	7.311	0.137	0.253	5.23	0.1	0.04	7.91e-04	2.00e-04	4.06e-06	0.0	0.0
27	7.450	0.134	0.250	8.27e-04	1.68e-05	12.18	0.2	6.01e-04	1.22e-05	0.0	0.0
28	7.577	0.132	0.247	12.19	0.2	1.54e-03	3.13e-05	0.0	0.0	0.0	0.0
29	7.774	0.129	0.244	6.88e-04	1.40e-05	0.69	1.40e-02	2.58e-04	5.25e-06	0.0	0.0
30	7.934	0.126	0.241	8.72	0.2	1.36e-05	0.0	1.05e-06	0.0	0.0	0.0
31	8.174	0.122	0.237	4.60e-03	9.36e-05	1.74	3.55e-02	5.05e-04	1.03e-05	0.0	0.0
32	8.341	0.120	0.234	77.69	1.6	1.21e-04	2.46e-06	7.87e-06	0.0	0.0	0.0
33	8.476	0.118	0.232	0.18	3.66e-03	3.37e-03	6.85e-05	9.65e-04	1.96e-05	0.0	0.0
34	8.587	0.116	0.231	493.44	10.0	7.91e-05	1.61e-06	5.41e-06	0.0	0.0	0.0
35	8.735	0.114	0.229	3.10e-03	6.30e-05	3.58	7.29e-02	0.01	2.47e-04	0.0	0.0
36	8.887	0.113	0.227	214.89	4.4	2.76e-05	0.0	5.10e-05	1.04e-06	0.0	0.0
37	9.002	0.111	0.225	0.21	4.29e-03	0.36	7.29e-03	2.96e-03	6.02e-05	0.0	0.0
38	9.191	0.109	0.223	19.55	0.4	4.90e-03	9.96e-05	6.11e-04	1.24e-05	0.0	0.0
39	9.230	0.108	0.222	0.61	1.25e-02	1.02	2.07e-02	0.02	3.69e-04	0.0	0.0
40	9.276	0.108	0.221	6.86e-03	1.39e-04	26.45	0.5	0.02	3.46e-04	0.0	0.0
41	9.350	0.107	0.221	0.02	3.05e-04	0.25	5.19e-03	0.02	4.54e-04	0.0	0.0
42	10.112	0.099	0.212	5.17	0.1	0.05	1.09e-03	1.71e-05	0.0	0.0	0.0
43	10.121	0.099	0.212	1.50e-03	3.05e-05	143.61	2.9	1.05e-03	2.14e-05	0.0	0.0
44	10.715	0.093	0.206	1.59e-05	0.0	1.51	3.08e-02	1.12e-04	2.27e-06	0.0	0.0
45	10.849	0.092	0.205	2.81e-06	0.0	1437.46	29.2	9.98e-04	2.03e-05	0.0	0.0
46	11.229	0.089	0.201	0.13	2.68e-03	0.30	6.11e-03	0.0	0.0	0.0	0.0
47	11.474	0.087	0.199	1.17e-04	2.38e-06	148.93	3.0	2.80e-04	5.70e-06	0.0	0.0
48	13.152	0.076	0.187	5.99e-03	1.22e-04	808.37	16.4	0.23	4.75e-03	0.0	0.0
49	13.218	0.076	0.187	0.01	2.60e-04	73.62	1.5	6.87	0.1	0.0	0.0
50	13.332	0.075	0.186	28.33	0.6	1.34	2.72e-02	0.03	6.71e-04	0.0	0.0
51	13.526	0.074	0.185	0.04	7.70e-04	34.81	0.7	49.26	1.0	0.0	0.0
52	13.660	0.073	0.184	0.18	3.68e-03	709.78	14.4	2.32	4.72e-02	0.0	0.0
53	13.937	0.072	0.183	810.03	16.5	0.17	3.42e-03	0.19	3.84e-03	0.0	0.0
54	14.056	0.071	0.182	0.12	2.39e-03	0.12	2.46e-03	1439.35	29.3	0.0	0.0
55	14.535	0.069	0.180	3.19	6.48e-02	81.29	1.7	16.54	0.3	0.0	0.0
56	14.601	0.068	0.179	0.89	1.81e-02	23.66	0.5	45.82	0.9	0.0	0.0
57	14.652	0.068	0.179	40.98	0.8	8.17	0.2	0.02	3.54e-04	0.0	0.0
58	14.934	0.067	0.178	2.66e-03	5.42e-05	3.95e-03	8.03e-05	660.06	13.4	0.0	0.0
59	15.058	0.066	0.177	346.94	7.1	6.53e-03	1.33e-04	1.77e-03	3.61e-05	0.0	0.0
60	17.921	0.056	0.166	1.81e-05	0.0	66.07	1.3	3.90e-06	0.0	0.0	0.0
61	18.447	0.054	0.164	0.02	4.89e-04	0.01	2.74e-04	0.0	0.0	0.0	0.0
62	22.714	0.044	0.153	1.56e-06	0.0	5.81	0.1	8.44e-06	0.0	0.0	0.0
63	24.896	0.040	0.149	1.14e-06	0.0	5.52	0.1	2.85e-05	0.0	0.0	0.0
64	30.817	0.032	0.141	1.07e-03	2.18e-05	0.01	3.02e-04	11.36	0.2	0.0	0.0
65	31.537	0.032	0.140	0.77	1.57e-02	2.55e-04	5.19e-06	0.61	1.23e-02	0.0	0.0
66	33.177	0.030	0.138	2.10e-04	4.28e-06	0.19	3.89e-03	31.64	0.6	0.0	0.0
67	34.556	0.029	0.137	2.76e-04	5.62e-06	4.38	8.91e-02	2.01	4.08e-02	0.0	0.0
68	36.371	0.027	0.135	0.48	9.78e-03	6.99e-04	1.42e-05	0.01	2.14e-04	0.0	0.0
69	39.424	0.025	0.133	1.86e-04	3.78e-06	6.82e-03	1.39e-04	1103.76	22.5	0.0	0.0
70	42.496	0.024	0.131	8.13e-04	1.65e-05	0.15	3.10e-03	63.62	1.3	0.0	0.0
71	45.280	0.022	0.130	1.24e-05	0.0	13.52	0.3	0.13	2.62e-03	0.0	0.0
72	73.904	0.014	0.120	15.11	0.3	3.92e-06	0.0	2.36e-03	4.80e-05	0.0	0.0
73	100.869	0.010	0.116	3.44e-03	7.00e-05	0.01	2.95e-04	213.13	4.3	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
74	104.598	0.010	0.116	7.56e-04	1.54e-05	0.39	7.89e-03	9.10	0.2	0.0	0.0
75	117.945	0.008	0.115	2.66	5.41e-02	1.44e-04	2.92e-06	0.23	4.59e-03	0.0	0.0
76	205.935	0.005	0.111	7.52e-05	1.53e-06	6.43e-05	1.31e-06	951.69	19.4	0.0	0.0
Risul ta				4914.23		4914.24		4608.06			
In perc entu ale				99.99		99.99		93.76			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.268 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.154 sec.
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	0.0	15.80	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.918	0.169	0.268	82.45	1.7	4.28e-04	8.71e-06	0.0	0.0	0.0	0.0
2	5.925	0.169	0.268	1.28e-04	2.60e-06	40.77	0.8	4.70e-04	9.57e-06	0.0	0.0
3	6.208	0.161	0.268	55.96	1.1	5.78e-05	1.18e-06	2.73e-06	0.0	0.0	0.0
4	6.399	0.156	0.268	0.01	2.25e-04	0.71	1.45e-02	0.0	0.0	0.0	0.0
5	6.401	0.156	0.268	94.42	1.9	6.02e-05	1.23e-06	0.0	0.0	0.0	0.0
6	6.457	0.155	0.268	0.02	3.83e-04	57.91	1.2	8.24e-05	1.68e-06	0.0	0.0
7	6.463	0.155	0.268	1115.44	22.7	0.01	2.92e-04	1.07e-05	0.0	0.0	0.0
8	6.475	0.154	0.268	1256.30	25.6	3.93e-05	0.0	2.07e-05	0.0	0.0	0.0
9	6.520	0.153	0.268	0.73	1.49e-02	99.99	2.0	6.97e-05	1.42e-06	0.0	0.0
10	6.526	0.153	0.268	83.77	1.7	1.80	3.67e-02	0.0	0.0	0.0	0.0
11	6.552	0.153	0.268	0.89	1.81e-02	523.44	10.7	1.62e-04	3.29e-06	0.0	0.0
12	6.557	0.153	0.268	4.22	8.59e-02	134.39	2.7	1.27e-04	2.59e-06	0.0	0.0
13	6.707	0.149	0.266	2.39e-03	4.87e-05	200.48	4.1	1.35e-04	2.74e-06	0.0	0.0
14	6.816	0.147	0.263	1.06e-03	2.16e-05	161.05	3.3	1.09e-03	2.21e-05	0.0	0.0
15	6.850	0.146	0.262	71.57	1.5	6.27e-03	1.28e-04	1.63e-05	0.0	0.0	0.0
16	6.895	0.145	0.261	0.32	6.45e-03	9.26	0.2	7.15e-05	1.46e-06	0.0	0.0
17	6.907	0.145	0.261	0.28	5.64e-03	9.08	0.2	1.84e-04	3.74e-06	0.0	0.0
18	6.927	0.144	0.261	18.39	0.4	0.02	5.07e-04	4.27e-05	0.0	0.0	0.0
19	6.963	0.144	0.260	0.04	8.93e-04	26.59	0.5	1.84e-05	0.0	0.0	0.0
20	7.003	0.143	0.259	0.19	3.77e-03	28.72	0.6	0.01	2.27e-04	0.0	0.0
21	7.020	0.142	0.259	33.16	0.7	0.19	3.94e-03	2.81e-04	5.71e-06	0.0	0.0
22	7.047	0.142	0.258	6.53	0.1	0.46	9.37e-03	4.24e-05	0.0	0.0	0.0
23	7.100	0.141	0.257	0.19	3.96e-03	0.98	2.00e-02	8.06e-05	1.64e-06	0.0	0.0
24	7.210	0.139	0.255	5.79e-03	1.18e-04	2.64	5.37e-02	3.08e-03	6.27e-05	0.0	0.0
25	7.285	0.137	0.253	1.51	3.06e-02	0.11	2.24e-03	2.85e-05	0.0	0.0	0.0
26	7.311	0.137	0.253	5.23	0.1	0.04	7.91e-04	2.00e-04	4.06e-06	0.0	0.0
27	7.450	0.134	0.250	8.27e-04	1.68e-05	12.18	0.2	6.01e-04	1.22e-05	0.0	0.0
28	7.577	0.132	0.247	12.19	0.2	1.54e-03	3.13e-05	0.0	0.0	0.0	0.0
29	7.774	0.129	0.244	6.88e-04	1.40e-05	0.69	1.40e-02	2.58e-04	5.25e-06	0.0	0.0
30	7.934	0.126	0.241	8.72	0.2	1.36e-05	0.0	1.05e-06	0.0	0.0	0.0
31	8.174	0.122	0.237	4.60e-03	9.36e-05	1.74	3.55e-02	5.05e-04	1.03e-05	0.0	0.0

o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
32	8.341	0.120	0.234	77.69	1.6	1.21e-04	2.46e-06	7.87e-06	0.0	0.0	0.0
33	8.476	0.118	0.232	0.18	3.66e-03	3.37e-03	6.85e-05	9.65e-04	1.96e-05	0.0	0.0
34	8.587	0.116	0.231	493.44	10.0	7.91e-05	1.61e-06	5.41e-06	0.0	0.0	0.0
35	8.735	0.114	0.229	3.10e-03	6.30e-05	3.58	7.29e-02	0.01	2.47e-04	0.0	0.0
36	8.887	0.113	0.227	214.89	4.4	2.76e-05	0.0	5.10e-05	1.04e-06	0.0	0.0
37	9.002	0.111	0.225	0.21	4.29e-03	0.36	7.29e-03	2.96e-03	6.02e-05	0.0	0.0
38	9.191	0.109	0.223	19.55	0.4	4.90e-03	9.96e-05	6.11e-04	1.24e-05	0.0	0.0
39	9.230	0.108	0.222	0.61	1.25e-02	1.02	2.07e-02	0.02	3.69e-04	0.0	0.0
40	9.276	0.108	0.221	6.86e-03	1.39e-04	26.45	0.5	0.02	3.46e-04	0.0	0.0
41	9.350	0.107	0.221	0.02	3.05e-04	0.25	5.19e-03	0.02	4.54e-04	0.0	0.0
42	10.112	0.099	0.212	5.17	0.1	0.05	1.09e-03	1.71e-05	0.0	0.0	0.0
43	10.121	0.099	0.212	1.50e-03	3.05e-05	143.61	2.9	1.05e-03	2.14e-05	0.0	0.0
44	10.715	0.093	0.206	1.59e-05	0.0	1.51	3.08e-02	1.12e-04	2.27e-06	0.0	0.0
45	10.849	0.092	0.205	2.81e-06	0.0	1437.46	29.2	9.98e-04	2.03e-05	0.0	0.0
46	11.229	0.089	0.201	0.13	2.68e-03	0.30	6.11e-03	0.0	0.0	0.0	0.0
47	11.474	0.087	0.199	1.17e-04	2.38e-06	148.93	3.0	2.80e-04	5.70e-06	0.0	0.0
48	13.152	0.076	0.187	5.99e-03	1.22e-04	808.37	16.4	0.23	4.75e-03	0.0	0.0
49	13.218	0.076	0.187	0.01	2.60e-04	73.62	1.5	6.87	0.1	0.0	0.0
50	13.332	0.075	0.186	28.33	0.6	1.34	2.72e-02	0.03	6.71e-04	0.0	0.0
51	13.526	0.074	0.185	0.04	7.70e-04	34.81	0.7	49.26	1.0	0.0	0.0
52	13.660	0.073	0.184	0.18	3.68e-03	709.78	14.4	2.32	4.72e-02	0.0	0.0
53	13.937	0.072	0.183	810.03	16.5	0.17	3.42e-03	0.19	3.84e-03	0.0	0.0
54	14.056	0.071	0.182	0.12	2.39e-03	0.12	2.46e-03	1439.35	29.3	0.0	0.0
55	14.535	0.069	0.180	3.19	6.48e-02	81.29	1.7	16.54	0.3	0.0	0.0
56	14.601	0.068	0.179	0.89	1.81e-02	23.66	0.5	45.82	0.9	0.0	0.0
57	14.652	0.068	0.179	40.98	0.8	8.17	0.2	0.02	3.54e-04	0.0	0.0
58	14.934	0.067	0.178	2.66e-03	5.42e-05	3.95e-03	8.03e-05	660.06	13.4	0.0	0.0
59	15.058	0.066	0.177	346.94	7.1	6.53e-03	1.33e-04	1.77e-03	3.61e-05	0.0	0.0
60	17.921	0.056	0.166	1.81e-05	0.0	66.07	1.3	3.90e-06	0.0	0.0	0.0
61	18.447	0.054	0.164	0.02	4.89e-04	0.01	2.74e-04	0.0	0.0	0.0	0.0
62	22.714	0.044	0.153	1.56e-06	0.0	5.81	0.1	8.44e-06	0.0	0.0	0.0
63	24.896	0.040	0.149	1.14e-06	0.0	5.52	0.1	2.85e-05	0.0	0.0	0.0
64	30.817	0.032	0.141	1.07e-03	2.18e-05	0.01	3.02e-04	11.36	0.2	0.0	0.0
65	31.537	0.032	0.140	0.77	1.57e-02	2.55e-04	5.19e-06	0.61	1.23e-02	0.0	0.0
66	33.177	0.030	0.138	2.10e-04	4.28e-06	0.19	3.89e-03	31.64	0.6	0.0	0.0
67	34.556	0.029	0.137	2.76e-04	5.62e-06	4.38	8.91e-02	2.01	4.08e-02	0.0	0.0
68	36.371	0.027	0.135	0.48	9.78e-03	6.99e-04	1.42e-05	0.01	2.14e-04	0.0	0.0
69	39.424	0.025	0.133	1.86e-04	3.78e-06	6.82e-03	1.39e-04	1103.76	22.5	0.0	0.0
70	42.496	0.024	0.131	8.13e-04	1.65e-05	0.15	3.10e-03	63.62	1.3	0.0	0.0
71	45.280	0.022	0.130	1.24e-05	0.0	13.52	0.3	0.13	2.62e-03	0.0	0.0
72	73.904	0.014	0.120	15.11	0.3	3.92e-06	0.0	2.36e-03	4.80e-05	0.0	0.0
73	100.869	0.010	0.116	3.44e-03	7.00e-05	0.01	2.95e-04	213.13	4.3	0.0	0.0
74	104.598	0.010	0.116	7.56e-04	1.54e-05	0.39	7.89e-03	9.10	0.2	0.0	0.0
75	117.945	0.008	0.115	2.66	5.41e-02	1.44e-04	2.92e-06	0.23	4.59e-03	0.0	0.0
76	205.935	0.005	0.111	7.52e-05	1.53e-06	6.43e-05	1.31e-06	951.69	19.4	0.0	0.0
Risul ta				4914.23		4914.24		4608.06			
In perc entu ale				99.99		99.99		93.76			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.268 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.075 sec.
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	213.78	0.0	0.0	0.0	1.081	0.0	0.0
Risulta	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.012	0.166	0.268	0.0	0.0	94.15	1.9	0.0	0.0	0.0	0.0
2	6.222	0.161	0.268	0.0	0.0	12.29	0.3	0.0	0.0	0.0	0.0
3	6.435	0.155	0.268	0.0	0.0	557.40	11.3	0.0	0.0	0.0	0.0
4	6.459	0.155	0.268	0.0	0.0	30.42	0.6	0.0	0.0	0.0	0.0
5	6.564	0.152	0.268	0.0	0.0	80.48	1.6	0.0	0.0	0.0	0.0
6	6.640	0.151	0.267	0.0	0.0	138.56	2.8	0.0	0.0	0.0	0.0
7	6.671	0.150	0.267	0.0	0.0	4.75	9.66e-02	0.0	0.0	0.0	0.0
8	6.696	0.149	0.266	0.0	0.0	243.43	5.0	0.0	0.0	0.0	0.0
9	6.784	0.147	0.264	0.0	0.0	25.94	0.5	0.0	0.0	0.0	0.0
10	6.823	0.147	0.263	0.0	0.0	8.27	0.2	0.0	0.0	0.0	0.0
11	6.851	0.146	0.262	3579.23	72.8	0.0	0.0	5.63e-05	1.15e-06	0.0	0.0
12	6.903	0.145	0.261	0.0	0.0	71.07	1.4	0.0	0.0	0.0	0.0
13	6.949	0.144	0.260	0.0	0.0	73.14	1.5	0.0	0.0	0.0	0.0
14	7.213	0.139	0.255	0.0	0.0	16.44	0.3	0.0	0.0	0.0	0.0
15	7.254	0.138	0.254	0.0	0.0	7.96	0.2	0.0	0.0	0.0	0.0
16	7.547	0.133	0.248	0.0	0.0	10.42	0.2	0.0	0.0	0.0	0.0
17	7.866	0.127	0.242	0.0	0.0	1.02	2.08e-02	0.0	0.0	0.0	0.0
18	8.000	0.125	0.240	0.02	3.23e-04	0.0	0.0	0.03	6.51e-04	0.0	0.0
19	8.119	0.123	0.238	5.49e-05	1.12e-06	0.0	0.0	7.63e-04	1.55e-05	0.0	0.0
20	8.146	0.123	0.237	0.0	0.0	0.0	0.0	1.13e-03	2.29e-05	0.0	0.0
21	8.154	0.123	0.237	0.02	5.00e-04	0.0	0.0	1.57e-04	3.20e-06	0.0	0.0
22	8.160	0.123	0.237	6.40e-04	1.30e-05	4.95e-05	1.01e-06	4.22e-04	8.58e-06	0.0	0.0
23	8.162	0.123	0.237	7.21e-03	1.47e-04	5.50e-05	1.12e-06	8.19e-05	1.67e-06	0.0	0.0
24	8.164	0.122	0.237	0.02	3.58e-04	1.54e-04	3.13e-06	1.02e-03	2.08e-05	0.0	0.0
25	8.164	0.122	0.237	0.01	2.75e-04	1.77e-05	0.0	1.12e-03	2.28e-05	0.0	0.0
26	8.166	0.122	0.237	1.95e-04	3.97e-06	1.60e-06	0.0	0.04	7.99e-04	0.0	0.0
27	8.166	0.122	0.237	0.17	3.40e-03	2.98e-05	0.0	3.96e-05	0.0	0.0	0.0
28	8.168	0.122	0.237	2.97e-04	6.04e-06	2.38e-03	4.84e-05	4.25e-06	0.0	0.0	0.0
29	8.350	0.120	0.234	0.0	0.0	0.73	1.48e-02	0.0	0.0	0.0	0.0
30	9.151	0.109	0.223	0.0	0.0	0.39	7.93e-03	0.0	0.0	0.0	0.0
31	9.816	0.102	0.215	0.0	0.0	139.39	2.8	0.0	0.0	0.0	0.0
32	10.555	0.095	0.207	0.0	0.0	895.65	18.2	0.0	0.0	0.0	0.0
33	11.066	0.090	0.203	0.0	0.0	609.66	12.4	0.0	0.0	0.0	0.0
34	12.160	0.082	0.194	0.0	0.0	128.59	2.6	0.0	0.0	0.0	0.0
35	13.169	0.076	0.187	7.32	0.1	7.80e-03	1.59e-04	0.02	4.88e-04	0.0	0.0
36	13.196	0.076	0.187	0.05	9.48e-04	4.26e-04	8.66e-06	3.57	7.27e-02	0.0	0.0
37	13.304	0.075	0.186	9.47	0.2	16.67	0.3	5.03e-03	1.02e-04	0.0	0.0
38	13.319	0.075	0.186	0.17	3.43e-03	1174.77	23.9	4.15e-05	0.0	0.0	0.0
39	13.371	0.075	0.186	6.37e-05	1.30e-06	0.02	4.93e-04	18.60	0.4	0.0	0.0
40	13.494	0.074	0.185	51.97	1.1	0.21	4.24e-03	1.97e-03	4.00e-05	0.0	0.0
41	13.617	0.073	0.185	0.08	1.69e-03	9.03e-03	1.84e-04	33.78	0.7	0.0	0.0
42	13.786	0.073	0.184	231.92	4.7	0.66	1.34e-02	0.04	8.20e-04	0.0	0.0
43	13.869	0.072	0.183	538.46	11.0	0.58	1.19e-02	1.08	2.19e-02	0.0	0.0
44	13.885	0.072	0.183	4.00	8.13e-02	2.96e-05	0.0	90.19	1.8	0.0	0.0
45	13.978	0.072	0.183	123.73	2.5	0.44	8.98e-03	0.25	5.04e-03	0.0	0.0
46	14.071	0.071	0.182	0.05	9.67e-04	2.96e-04	6.02e-06	1371.15	27.9	0.0	0.0
47	14.438	0.069	0.180	1.99e-03	4.04e-05	408.79	8.3	2.70e-03	5.48e-05	0.0	0.0
48	14.634	0.068	0.179	0.01	2.98e-04	0.19	3.84e-03	9.25	0.2	0.0	0.0
49	14.796	0.068	0.178	11.45	0.2	0.21	4.37e-03	0.11	2.15e-03	0.0	0.0
50	14.863	0.067	0.178	0.07	1.43e-03	5.44e-03	1.11e-04	233.93	4.8	0.0	0.0
51	14.921	0.067	0.178	48.04	1.0	0.05	1.05e-03	3.41	6.94e-02	0.0	0.0
52	14.953	0.067	0.178	0.18	3.58e-03	1.58e-04	3.21e-06	455.31	9.3	0.0	0.0
53	15.043	0.066	0.177	288.76	5.9	8.06e-04	1.64e-05	9.02e-04	1.84e-05	0.0	0.0
54	15.782	0.063	0.174	0.0	0.0	103.54	2.1	0.0	0.0	0.0	0.0
55	20.473	0.049	0.158	0.0	0.0	30.81	0.6	0.0	0.0	0.0	0.0
56	23.755	0.042	0.151	0.0	0.0	0.87	1.78e-02	2.12e-06	0.0	0.0	0.0
57	24.264	0.041	0.150	0.0	0.0	6.78	0.1	0.0	0.0	0.0	0.0
58	30.450	0.033	0.141	0.23	4.72e-03	6.85e-05	1.39e-06	0.14	2.91e-03	0.0	0.0
59	30.822	0.032	0.141	0.01	3.02e-04	1.18e-03	2.40e-05	9.09	0.2	0.0	0.0
60	32.205	0.031	0.139	0.02	3.29e-04	0.16	3.28e-03	19.69	0.4	0.0	0.0
61	32.365	0.031	0.139	0.21	4.24e-03	2.41	4.90e-02	0.69	1.41e-02	0.0	0.0
62	32.434	0.031	0.139	0.29	5.87e-03	2.18	4.43e-02	0.10	2.06e-03	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	X %	M efficace Y x g	Y %	M efficace Z x g	Z %	Energia	Energia x v
63	34.051	0.029	0.137	0.24	4.82e-03	0.01	2.07e-04	1.44e-03	2.93e-05	0.0	0.0
64	36.437	0.027	0.135	5.88e-04	1.20e-05	3.63e-04	7.38e-06	74.34	1.5	0.0	0.0
65	37.432	0.027	0.134	0.25	5.03e-03	4.09e-04	8.32e-06	0.01	2.75e-04	0.0	0.0
66	39.703	0.025	0.133	0.0	0.0	1.89e-05	0.0	1106.98	22.5	0.0	0.0
67	44.835	0.022	0.130	0.0	0.0	14.04	0.3	3.97e-04	8.07e-06	0.0	0.0
68	56.381	0.018	0.125	3.70e-03	7.53e-05	1.15e-03	2.34e-05	1.75	3.57e-02	0.0	0.0
69	67.435	0.015	0.122	1.89	3.84e-02	1.07e-04	2.17e-06	0.03	6.96e-04	0.0	0.0
70	75.115	0.013	0.120	13.01	0.3	1.94e-04	3.95e-06	0.04	8.71e-04	0.0	0.0
71	81.944	0.012	0.119	8.67e-03	1.76e-04	0.06	1.25e-03	32.82	0.7	0.0	0.0
72	83.102	0.012	0.119	0.01	2.24e-04	0.55	1.13e-02	3.81	7.74e-02	0.0	0.0
73	97.396	0.010	0.117	1.92	3.91e-02	2.41e-04	4.91e-06	0.11	2.22e-03	0.0	0.0
74	118.138	0.008	0.115	2.33e-04	4.75e-06	2.34e-05	0.0	321.71	6.5	0.0	0.0
75	187.977	0.005	0.112	1.29	2.63e-02	6.39e-06	0.0	0.07	1.34e-03	0.0	0.0
76	241.926	0.004	0.110	6.49e-05	1.32e-06	2.31e-06	0.0	930.64	18.9	0.0	0.0
Risul ta				4914.58		4914.20		4722.80			
In perc entuale				100.00		99.99		96.10			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.268 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.074 sec.
			numero di modi considerati: 76
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
223.00	4914.72	0.0	0.0	-213.78	0.0	0.0	0.0	1.081	0.0	0.0
Risultata	4914.72									

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	X %	M efficace Y x g	Y %	M efficace Z x g	Z %	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.012	0.166	0.268	0.0	0.0	94.16	1.9	0.0	0.0	0.0	0.0
2	6.222	0.161	0.268	0.0	0.0	12.29	0.3	0.0	0.0	0.0	0.0
3	6.434	0.155	0.268	0.0	0.0	563.22	11.5	0.0	0.0	0.0	0.0
4	6.460	0.155	0.268	0.0	0.0	31.32	0.6	0.0	0.0	0.0	0.0
5	6.560	0.152	0.268	0.0	0.0	78.31	1.6	0.0	0.0	0.0	0.0
6	6.627	0.151	0.268	0.0	0.0	71.67	1.5	0.0	0.0	0.0	0.0
7	6.675	0.150	0.267	0.0	0.0	43.29	0.9	0.0	0.0	0.0	0.0
8	6.691	0.149	0.266	0.0	0.0	245.62	5.0	0.0	0.0	0.0	0.0
9	6.762	0.148	0.264	0.0	0.0	53.42	1.1	0.0	0.0	0.0	0.0
10	6.802	0.147	0.263	0.0	0.0	1.16	2.36e-02	0.0	0.0	0.0	0.0
11	6.851	0.146	0.262	3579.23	72.8	0.0	0.0	5.63e-05	1.15e-06	0.0	0.0
12	6.918	0.145	0.261	0.0	0.0	125.80	2.6	0.0	0.0	0.0	0.0
13	6.985	0.143	0.259	0.0	0.0	20.05	0.4	0.0	0.0	0.0	0.0
14	7.227	0.138	0.254	0.0	0.0	23.68	0.5	0.0	0.0	0.0	0.0
15	7.533	0.133	0.248	0.0	0.0	9.96	0.2	0.0	0.0	0.0	0.0
16	7.736	0.129	0.244	0.0	0.0	1.54	3.14e-02	0.0	0.0	0.0	0.0
17	8.000	0.125	0.240	0.02	3.23e-04	0.0	0.0	0.03	6.51e-04	0.0	0.0
18	8.119	0.123	0.238	5.49e-05	1.12e-06	0.0	0.0	7.62e-04	1.55e-05	0.0	0.0
19	8.146	0.123	0.237	0.0	0.0	0.38	7.78e-03	1.06e-04	2.15e-06	0.0	0.0
20	8.146	0.123	0.237	0.0	0.0	0.04	9.03e-04	1.02e-03	2.08e-05	0.0	0.0

Mod o	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
21	8.154	0.123	0.237	0.02	5.00e-04	1.97e-05	0.0	1.57e-04	3.19e-06	0.0	0.0
22	8.160	0.123	0.237	6.06e-04	1.23e-05	4.75e-03	9.67e-05	4.91e-04	9.99e-06	0.0	0.0
23	8.162	0.123	0.237	8.16e-03	1.66e-04	2.11e-03	4.30e-05	4.13e-05	0.0	0.0	0.0
24	8.164	0.122	0.237	0.02	3.73e-04	4.39e-03	8.93e-05	1.16e-03	2.36e-05	0.0	0.0
25	8.164	0.122	0.237	0.01	2.88e-04	4.25e-04	8.65e-06	1.06e-03	2.16e-05	0.0	0.0
26	8.166	0.122	0.237	2.86e-03	5.82e-05	1.31e-06	0.0	0.04	7.86e-04	0.0	0.0
27	8.166	0.122	0.237	0.16	3.31e-03	2.74e-04	5.58e-06	5.86e-04	1.19e-05	0.0	0.0
28	8.173	0.122	0.237	0.0	0.0	0.21	4.35e-03	0.0	0.0	0.0	0.0
29	8.541	0.117	0.231	0.0	0.0	0.43	8.82e-03	0.0	0.0	0.0	0.0
30	9.802	0.102	0.215	0.0	0.0	130.79	2.7	0.0	0.0	0.0	0.0
31	10.486	0.095	0.208	0.0	0.0	610.66	12.4	0.0	0.0	0.0	0.0
32	10.838	0.092	0.205	0.0	0.0	676.41	13.8	0.0	0.0	0.0	0.0
33	11.353	0.088	0.200	0.0	0.0	270.48	5.5	0.0	0.0	0.0	0.0
34	12.777	0.078	0.190	0.0	0.0	273.43	5.6	0.0	0.0	0.0	0.0
35	13.169	0.076	0.187	7.35	0.1	0.01	2.57e-04	1.18e-03	2.40e-05	0.0	0.0
36	13.196	0.076	0.187	6.63e-05	1.35e-06	0.02	4.71e-04	3.60	7.32e-02	0.0	0.0
37	13.304	0.075	0.186	9.50	0.2	0.64	1.31e-02	6.03e-03	1.23e-04	0.0	0.0
38	13.370	0.075	0.186	4.10e-03	8.34e-05	0.76	1.55e-02	18.58	0.4	0.0	0.0
39	13.449	0.074	0.186	0.32	6.52e-03	1113.00	22.6	0.04	7.75e-04	0.0	0.0
40	13.493	0.074	0.185	51.21	1.0	8.11	0.2	1.76e-04	3.59e-06	0.0	0.0
41	13.617	0.073	0.185	0.04	7.96e-04	0.78	1.59e-02	33.77	0.7	0.0	0.0
42	13.767	0.073	0.184	136.43	2.8	2.23	4.53e-02	0.04	7.72e-04	0.0	0.0
43	13.856	0.072	0.183	601.42	12.2	0.62	1.26e-02	0.75	1.52e-02	0.0	0.0
44	13.885	0.072	0.183	3.69	7.50e-02	0.45	9.11e-03	90.16	1.8	0.0	0.0
45	13.970	0.072	0.183	157.21	3.2	0.33	6.68e-03	0.06	1.28e-03	0.0	0.0
46	14.071	0.071	0.182	0.02	4.14e-04	0.01	3.05e-04	1371.70	27.9	0.0	0.0
47	14.629	0.068	0.179	4.45e-03	9.06e-05	29.09	0.6	8.11	0.2	0.0	0.0
48	14.722	0.068	0.179	0.14	2.90e-03	289.63	5.9	2.13	4.33e-02	0.0	0.0
49	14.791	0.068	0.178	10.29	0.2	7.81	0.2	0.02	3.12e-04	0.0	0.0
50	14.864	0.067	0.178	0.08	1.60e-03	1.15	2.34e-02	234.51	4.8	0.0	0.0
51	14.919	0.067	0.178	48.67	1.0	0.29	5.83e-03	3.25	6.61e-02	0.0	0.0
52	14.953	0.067	0.178	0.15	3.02e-03	0.06	1.22e-03	453.98	9.2	0.0	0.0
53	15.043	0.066	0.177	289.20	5.9	2.20e-03	4.47e-05	3.93e-03	8.00e-05	0.0	0.0
54	16.050	0.062	0.173	0.0	0.0	63.71	1.3	0.0	0.0	0.0	0.0
55	20.592	0.049	0.158	0.0	0.0	31.15	0.6	0.0	0.0	0.0	0.0
56	23.833	0.042	0.151	0.0	0.0	2.06	4.20e-02	1.97e-06	0.0	0.0	0.0
57	25.213	0.040	0.148	0.0	0.0	5.13	0.1	3.85e-06	0.0	0.0	0.0
58	30.450	0.033	0.141	0.23	4.78e-03	2.27e-04	4.62e-06	0.06	1.32e-03	0.0	0.0
59	30.818	0.032	0.141	9.95e-03	2.02e-04	5.47e-03	1.11e-04	9.17	0.2	0.0	0.0
60	32.203	0.031	0.139	0.05	9.54e-04	0.03	6.04e-04	19.53	0.4	0.0	0.0
61	32.386	0.031	0.139	0.45	9.16e-03	0.01	2.30e-04	0.82	1.66e-02	0.0	0.0
62	33.747	0.030	0.138	0.02	3.48e-04	4.44	9.02e-02	0.23	4.72e-03	0.0	0.0
63	33.972	0.029	0.137	0.23	4.77e-03	0.26	5.27e-03	0.11	2.18e-03	0.0	0.0
64	36.454	0.027	0.135	1.18e-03	2.41e-05	0.01	2.69e-04	74.57	1.5	0.0	0.0
65	37.415	0.027	0.135	0.25	5.09e-03	4.04e-04	8.21e-06	0.01	2.14e-04	0.0	0.0
66	39.704	0.025	0.133	6.19e-06	0.0	3.84e-04	7.81e-06	1106.54	22.5	0.0	0.0
67	45.215	0.022	0.130	0.0	0.0	13.53	0.3	6.25e-03	1.27e-04	0.0	0.0
68	56.699	0.018	0.125	5.27e-03	1.07e-04	0.02	3.29e-04	1.80	3.66e-02	0.0	0.0
69	67.406	0.015	0.122	1.84	3.74e-02	2.07e-03	4.21e-05	3.76e-03	7.64e-05	0.0	0.0
70	75.071	0.013	0.120	13.03	0.3	9.61e-04	1.95e-05	8.90e-03	1.81e-04	0.0	0.0
71	81.992	0.012	0.119	4.03e-03	8.20e-05	0.02	3.65e-04	35.49	0.7	0.0	0.0
72	90.998	0.011	0.118	0.06	1.25e-03	0.49	1.01e-02	2.29	4.66e-02	0.0	0.0
73	97.250	0.010	0.117	1.90	3.86e-02	8.72e-03	1.77e-04	0.03	6.01e-04	0.0	0.0
74	118.282	0.008	0.115	1.62e-05	0.0	7.15e-04	1.46e-05	321.28	6.5	0.0	0.0
75	187.669	0.005	0.112	1.30	2.64e-02	3.69e-05	0.0	1.29e-05	0.0	0.0	0.0
76	242.058	0.004	0.110	1.39e-06	0.0	4.68e-05	0.0	930.37	18.9	0.0	0.0
Risul ta				4914.58		4914.22		4723.11			
In perc entu ale				100.00		99.99		96.10			

Cmb inter. h	Pilas. 1000 etaT/h			etaT	inter. h	Pilas. 1000 etaT/h			etaT	inter. h	Pilas. 1000 etaT/h			etaT	
cm				cm	cm				cm	cm				cm	
67	1	0.22	0.05	223.0	2	0.23	0.05	223.0	3	0.22	0.05	223.0	4	0.21	0.05

223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.20	0.05
223.0	7	0.25	0.06	223.0	9	0.22	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.24	0.05
223.0	14	0.24	0.05	223.0							
68	1	0.22	0.05	223.0	2	0.22	0.05	223.0	3	0.22	0.05
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.25	0.05
223.0	7	0.21	0.05	223.0	9	0.23	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.22	0.05
223.0	14	0.26	0.06	223.0							
69	1	0.22	0.05	223.0	2	0.21	0.05	223.0	3	0.23	0.05
223.0	4	0.23	0.05	223.0	5	0.23	0.05	223.0	6	0.26	0.06
223.0	7	0.23	0.05	223.0	9	0.22	0.05	223.0	10	0.21	0.05
223.0	11	0.21	0.05	223.0	12	0.21	0.05	223.0	13	0.21	0.05
223.0	14	0.24	0.05	223.0							
70	1	0.22	0.05	223.0	2	0.23	0.05	223.0	3	0.22	0.05
223.0	4	0.23	0.05	223.0	5	0.23	0.05	223.0	6	0.22	0.05
223.0	7	0.27	0.06	223.0	9	0.21	0.05	223.0	10	0.22	0.05
223.0	11	0.21	0.05	223.0	12	0.21	0.05	223.0	13	0.23	0.05
223.0	14	0.22	0.05	223.0							
71	1	0.22	0.05	223.0	2	0.23	0.05	223.0	3	0.21	0.05
223.0	4	0.21	0.05	223.0	5	0.21	0.05	223.0	6	0.20	0.05
223.0	7	0.23	0.05	223.0	9	0.22	0.05	223.0	10	0.23	0.05
223.0	11	0.23	0.05	223.0	12	0.23	0.05	223.0	13	0.26	0.06
223.0	14	0.23	0.05	223.0							
72	1	0.22	0.05	223.0	2	0.21	0.05	223.0	3	0.21	0.05
223.0	4	0.21	0.05	223.0	5	0.21	0.05	223.0	6	0.23	0.05
223.0	7	0.21	0.05	223.0	9	0.23	0.05	223.0	10	0.23	0.05
223.0	11	0.23	0.05	223.0	12	0.23	0.05	223.0	13	0.22	0.05
223.0	14	0.27	0.06	223.0							
73	1	0.22	0.05	223.0	2	0.21	0.05	223.0	3	0.22	0.05
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.24	0.05
223.0	7	0.24	0.05	223.0	9	0.23	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.23	0.05	223.0	13	0.21	0.05
223.0	14	0.25	0.06	223.0							
74	1	0.22	0.05	223.0	2	0.22	0.05	223.0	3	0.22	0.05
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.22	0.05
223.0	7	0.26	0.06	223.0	9	0.21	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.25	0.06
223.0	14	0.21	0.05	223.0							
75	1	0.22	0.05	223.0	2	0.22	0.05	223.0	3	0.22	0.05
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.25	0.05
223.0											

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223.0	7	0.21	0.05	223.0	9	0.23	0.05	223.0	10	0.22	0.05
	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.22	0.05
223.0	14	0.26	0.06	223.0	2	0.23	0.05	223.0	3	0.22	0.05
76	1	0.22	0.05	223.0							
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.20	0.05
223.0	7	0.25	0.06	223.0	9	0.22	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.24	0.05
223.0	14	0.24	0.05	223.0	2	0.23	0.05	223.0	3	0.22	0.05
77	1	0.22	0.05	223.0							
223.0	4	0.23	0.05	223.0	5	0.23	0.05	223.0	6	0.22	0.05
223.0	7	0.27	0.06	223.0	9	0.21	0.05	223.0	10	0.22	0.05
223.0	11	0.21	0.05	223.0	12	0.21	0.05	223.0	13	0.23	0.05
223.0	14	0.22	0.05	223.0	2	0.21	0.05	223.0	3	0.23	0.05
78	1	0.22	0.05	223.0							
223.0	4	0.23	0.05	223.0	5	0.23	0.05	223.0	6	0.26	0.06
223.0	7	0.23	0.05	223.0	9	0.22	0.05	223.0	10	0.21	0.05
223.0	11	0.21	0.05	223.0	12	0.21	0.05	223.0	13	0.21	0.05
223.0	14	0.24	0.05	223.0	2	0.21	0.05	223.0	3	0.21	0.05
79	1	0.22	0.05	223.0							
223.0	4	0.21	0.05	223.0	5	0.21	0.05	223.0	6	0.22	0.05
223.0	7	0.21	0.05	223.0	9	0.23	0.05	223.0	10	0.23	0.05
223.0	11	0.23	0.05	223.0	12	0.23	0.05	223.0	13	0.22	0.05
223.0	14	0.27	0.06	223.0	2	0.23	0.05	223.0	3	0.21	0.05
80	1	0.22	0.05	223.0							
223.0	4	0.21	0.05	223.0	5	0.21	0.05	223.0	6	0.20	0.05
223.0	7	0.23	0.05	223.0	9	0.22	0.05	223.0	10	0.23	0.05
223.0	11	0.23	0.05	223.0	12	0.23	0.05	223.0	13	0.26	0.06
223.0	14	0.23	0.05	223.0	2	0.22	0.05	223.0	3	0.22	0.05
81	1	0.22	0.05	223.0							
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.22	0.05
223.0	7	0.26	0.06	223.0	9	0.21	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.22	0.05	223.0	13	0.25	0.06
223.0	14	0.21	0.05	223.0	2	0.21	0.05	223.0	3	0.22	0.05
82	1	0.22	0.05	223.0							
223.0	4	0.22	0.05	223.0	5	0.22	0.05	223.0	6	0.24	0.05
223.0	7	0.24	0.05	223.0	9	0.23	0.05	223.0	10	0.22	0.05
223.0	11	0.22	0.05	223.0	12	0.23	0.05	223.0	13	0.21	0.05
223.0	14	0.25	0.06	223.0	2	0.22	0.05	223.0	3	0.24	0.05
83	1	0.17	0.04	223.0							
223.0	4	0.25	0.06	223.0	5	0.28	0.06	223.0	6	0.26	0.06
223.0	7	0.20	0.05	223.0	9	0.19	0.04	223.0	10	0.19	0.04
223.0	11	0.18	0.04	223.0	12	0.17	0.04	223.0	13	0.16	0.04

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223.0											
	14	0.09	0.02	223.0							
84	1	0.17	0.04	223.0	2	0.21	0.05	223.0	3	0.24	0.05
223.0											
	4	0.26	0.06	223.0	5	0.27	0.06	223.0	6	0.29	0.06
223.0											
	7	0.15	0.03	223.0	9	0.20	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.17	0.04	223.0	13	0.13	0.03
223.0											
	14	0.13	0.03	223.0							
85	1	0.16	0.04	223.0	2	0.21	0.05	223.0	3	0.25	0.06
223.0											
	4	0.26	0.06	223.0	5	0.28	0.06	223.0	6	0.29	0.07
223.0											
	7	0.16	0.03	223.0	9	0.20	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.17	0.04	223.0	13	0.13	0.03
223.0											
	14	0.12	0.03	223.0							
86	1	0.16	0.04	223.0	2	0.22	0.05	223.0	3	0.24	0.05
223.0											
	4	0.26	0.06	223.0	5	0.28	0.06	223.0	6	0.26	0.06
223.0											
	7	0.21	0.05	223.0	9	0.19	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.16	0.04	223.0	13	0.16	0.04
223.0											
	14	0.07	0.02	223.0							
87	1	0.17	0.04	223.0	2	0.21	0.05	223.0	3	0.24	0.05
223.0											
	4	0.26	0.06	223.0	5	0.27	0.06	223.0	6	0.29	0.06
223.0											
	7	0.15	0.03	223.0	9	0.20	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.17	0.04	223.0	13	0.13	0.03
223.0											
	14	0.13	0.03	223.0							
88	1	0.17	0.04	223.0	2	0.22	0.05	223.0	3	0.24	0.05
223.0											
	4	0.25	0.06	223.0	5	0.28	0.06	223.0	6	0.26	0.06
223.0											
	7	0.20	0.05	223.0	9	0.19	0.04	223.0	10	0.19	0.04
223.0											
	11	0.18	0.04	223.0	12	0.17	0.04	223.0	13	0.16	0.04
223.0											
	14	0.09	0.02	223.0							
89	1	0.16	0.04	223.0	2	0.22	0.05	223.0	3	0.24	0.05
223.0											
	4	0.26	0.06	223.0	5	0.28	0.06	223.0	6	0.26	0.06
223.0											
	7	0.21	0.05	223.0	9	0.19	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.16	0.04	223.0	13	0.16	0.04
223.0											
	14	0.07	0.02	223.0							
90	1	0.16	0.04	223.0	2	0.21	0.05	223.0	3	0.25	0.06
223.0											
	4	0.26	0.06	223.0	5	0.28	0.06	223.0	6	0.29	0.07
223.0											
	7	0.16	0.03	223.0	9	0.20	0.04	223.0	10	0.19	0.04
223.0											
	11	0.17	0.04	223.0	12	0.17	0.04	223.0	13	0.13	0.03
223.0											
	14	0.12	0.03	223.0							
91	1	0.17	0.04	223.0	2	0.20	0.04	223.0	3	0.19	0.04
223.0											
	4	0.17	0.04	223.0	5	0.17	0.04	223.0	6	0.13	0.03
223.0											
	7	0.12	0.03	223.0	9	0.21	0.05	223.0	10	0.25	0.06
223.0											
	11	0.26	0.06	223.0	12	0.28	0.06	223.0	13	0.29	0.07
223.0											
	14	0.16	0.03	223.0							
92	1	0.17	0.04	223.0	2	0.19	0.04	223.0	3	0.19	0.04

22. RISULTATI NODALI

22.1. LEGENDA RISULTATI NODALI

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

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

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

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

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	1	0.0	0.0	0.0	0.0	0.0	0.0
1	21	0.0	0.0	0.0	0.0	0.0	0.0
1	25	0.0	0.0	0.0	0.0	0.0	0.0
1	35	0.0	0.0	0.0	0.0	0.0	0.0
1	67	0.0	0.0	0.0	0.0	0.0	0.0
2	2	1.74e-03	-0.06	-4.10e-03	5.11e-04	6.67e-06	0.0
2	5	4.28e-04	-0.09	-1.05e-03	7.91e-04	1.64e-06	0.0
2	22	5.52e-04	0.0	-1.33e-03	0.0	2.11e-06	0.0
2	23	3.68e-04	-0.01	-8.98e-04	9.35e-05	1.41e-06	0.0
2	26	1.21e-03	-0.04	-2.86e-03	3.40e-04	4.64e-06	0.0
2	27	3.36e-04	-0.06	-8.24e-04	5.27e-04	1.29e-06	0.0
2	40	0.10	-0.02	-9.22e-04	1.51e-04	4.01e-04	4.37e-04
2	60	0.03	-0.07	-9.03e-04	4.94e-04	1.29e-04	2.17e-04
2	65	-0.03	0.07	-9.61e-04	-4.92e-04	-1.26e-04	2.76e-05
2	72	0.05	-0.01	-9.30e-04	7.69e-05	1.92e-04	1.22e-04
2	93	-0.01	0.03	-9.36e-04	-2.55e-04	-5.70e-05	-5.56e-05
05							
	97	-0.01	0.03	-9.36e-04	-2.54e-04	-5.70e-05	1.35e-05
3	1	0.0	0.0	0.0	0.0	0.0	0.0
3	21	0.0	0.0	0.0	0.0	0.0	0.0
3	25	0.0	0.0	0.0	0.0	0.0	0.0
3	35	0.0	0.0	0.0	0.0	0.0	0.0
3	67	0.0	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	0.0
4	21	0.0	0.0	0.0	0.0	0.0	0.0
4	25	0.0	0.0	0.0	0.0	0.0	0.0
4	35	0.0	0.0	0.0	0.0	0.0	0.0
4	67	0.0	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	0.0	0.0	0.0	0.0
5	21	0.0	0.0	0.0	0.0	0.0	0.0
5	25	0.0	0.0	0.0	0.0	0.0	0.0
5	35	0.0	0.0	0.0	0.0	0.0	0.0
5	67	0.0	0.0	0.0	0.0	0.0	0.0

	6	1	0.0	0.0	0.0	0.0	0.0	0.0
	6	21	0.0	0.0	0.0	0.0	0.0	0.0
	6	25	0.0	0.0	0.0	0.0	0.0	0.0
	6	35	0.0	0.0	0.0	0.0	0.0	0.0
	6	67	0.0	0.0	0.0	0.0	0.0	0.0
	7	1	0.0	0.0	0.0	0.0	0.0	0.0
	7	21	0.0	0.0	0.0	0.0	0.0	0.0
	7	25	0.0	0.0	0.0	0.0	0.0	0.0
	7	35	0.0	0.0	0.0	0.0	0.0	0.0
	7	67	0.0	0.0	0.0	0.0	0.0	0.0
	8	1	0.0	0.0	0.0	0.0	0.0	0.0
	8	21	0.0	0.0	0.0	0.0	0.0	0.0
	8	25	0.0	0.0	0.0	0.0	0.0	0.0
	8	35	0.0	0.0	0.0	0.0	0.0	0.0
	8	67	0.0	0.0	0.0	0.0	0.0	0.0
	9	1	0.0	0.0	0.0	0.0	0.0	0.0
	9	21	0.0	0.0	0.0	0.0	0.0	0.0
	9	25	0.0	0.0	0.0	0.0	0.0	0.0
	9	35	0.0	0.0	0.0	0.0	0.0	0.0
	9	67	0.0	0.0	0.0	0.0	0.0	0.0
	10	1	0.0	0.0	0.0	0.0	0.0	0.0
	10	21	0.0	0.0	0.0	0.0	0.0	0.0
	10	25	0.0	0.0	0.0	0.0	0.0	0.0
	10	35	0.0	0.0	0.0	0.0	0.0	0.0
	10	67	0.0	0.0	0.0	0.0	0.0	0.0
	11	1	0.0	0.0	0.0	0.0	0.0	0.0
	11	21	0.0	0.0	0.0	0.0	0.0	0.0
	11	25	0.0	0.0	0.0	0.0	0.0	0.0
	11	35	0.0	0.0	0.0	0.0	0.0	0.0
	11	67	0.0	0.0	0.0	0.0	0.0	0.0
	12	1	0.0	0.0	0.0	0.0	0.0	0.0
	12	21	0.0	0.0	0.0	0.0	0.0	0.0
	12	25	0.0	0.0	0.0	0.0	0.0	0.0
	12	35	0.0	0.0	0.0	0.0	0.0	0.0
	12	67	0.0	0.0	0.0	0.0	0.0	0.0
	13	1	0.0	0.0	0.0	0.0	0.0	0.0
	13	21	0.0	0.0	0.0	0.0	0.0	0.0
	13	25	0.0	0.0	0.0	0.0	0.0	0.0
	13	35	0.0	0.0	0.0	0.0	0.0	0.0
	13	67	0.0	0.0	0.0	0.0	0.0	0.0
	14	1	0.0	0.0	0.0	0.0	0.0	0.0
	14	21	0.0	0.0	0.0	0.0	0.0	0.0
	14	25	0.0	0.0	0.0	0.0	0.0	0.0
	14	35	0.0	0.0	0.0	0.0	0.0	0.0
	14	67	0.0	0.0	0.0	0.0	0.0	0.0
05	15	2	1.02e-03	-0.06	-3.84e-03	5.55e-04	1.09e-05	-1.10e-
	15	5	2.37e-04	-0.10	-1.02e-03	8.60e-04	2.44e-06	-1.71e-
05	15	22	3.15e-04	0.0	-1.26e-03	0.0	3.30e-06	0.0
	15	23	2.05e-04	-0.01	-8.69e-04	1.02e-04	2.13e-06	-2.01e-
06	15	26	7.09e-04	-0.04	-2.68e-03	3.70e-04	7.53e-06	-7.34e-
06	15	27	1.87e-04	-0.06	-8.01e-04	5.73e-04	1.92e-06	-1.14e-
05	15	40	0.10	-5.72e-03	-9.01e-04	5.04e-05	3.16e-04	-2.58e-
04	15	56	0.03	-0.10	-8.92e-04	7.07e-04	9.48e-05	-2.43e-
04	15	59	0.03	0.09	-9.49e-04	-6.81e-04	1.03e-04	1.67e-04
05	15	72	0.05	-7.14e-03	-9.04e-04	5.53e-05	1.53e-04	-6.53e-
	15	89	-0.01	0.05	-9.01e-04	-3.46e-04	-4.27e-05	7.35e-05
	15	91	0.01	0.04	-9.10e-04	-3.11e-04	4.87e-05	4.47e-05
	16	2	-4.65e-03	-0.06	-3.87e-03	5.76e-04	-4.23e-05	1.63e-06
	16	5	-1.16e-03	-0.10	-1.03e-03	8.92e-04	-9.17e-06	2.52e-06
	16	22	-1.48e-03	0.0	-1.27e-03	0.0	-1.27e-05	0.0
	16	23	-9.94e-04	-0.01	-8.73e-04	1.05e-04	-8.04e-06	0.0
	16	26	-3.24e-03	-0.04	-2.70e-03	3.84e-04	-2.93e-05	1.09e-06
	16	27	-9.09e-04	-0.07	-8.04e-04	5.95e-04	-7.24e-06	1.68e-06
	16	41	-0.10	0.03	-9.14e-04	-2.63e-04	-3.33e-04	-9.95e-
05	16	50	-0.10	-0.03	-9.17e-04	2.63e-04	-3.29e-04	9.95e-05
	16	52	0.03	-0.12	-9.04e-04	8.71e-04	9.07e-05	-1.75e-

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04								
	16	73	-0.05	0.01	-9.07e-04	-9.78e-05	-1.63e-04	-2.36e-
05								
	16	82	-0.05	-0.01	-9.07e-04	9.78e-05	-1.63e-04	2.36e-05
	16	84	0.01	-0.05	-9.04e-04	3.94e-04	3.83e-05	-5.35e-
05								
	17	2	-5.08e-03	-0.06	-3.87e-03	5.73e-04	1.25e-05	2.50e-06
	17	5	-1.29e-03	-0.10	-1.03e-03	8.88e-04	1.69e-06	3.87e-06
	17	22	-1.63e-03	0.0	-1.27e-03	0.0	3.13e-06	0.0
	17	23	-1.10e-03	-0.01	-8.73e-04	1.05e-04	1.62e-06	0.0
	17	26	-3.54e-03	-0.04	-2.70e-03	3.82e-04	8.55e-06	1.67e-06
	17	27	-1.01e-03	-0.07	-8.04e-04	5.92e-04	1.36e-06	2.58e-06
	17	41	-0.10	0.03	-9.16e-04	-2.33e-04	-3.18e-04	-1.14e-
04								
	17	42	-0.10	-0.02	-9.24e-04	1.28e-04	-3.19e-04	-1.42e-
05								
	17	55	0.03	0.13	-8.95e-04	-9.63e-04	9.86e-05	1.75e-04
	17	73	-0.05	0.01	-9.07e-04	-9.36e-05	-1.51e-04	-2.26e-
05								
	17	74	-0.05	-9.36e-03	-9.08e-04	6.97e-05	-1.52e-04	4.81e-06
	17	87	0.01	0.06	-9.02e-04	-4.18e-04	4.78e-05	4.96e-05
	18	2	-6.20e-03	-0.06	-3.84e-03	5.66e-04	-3.26e-05	-2.75e-
06								
	18	5	-1.57e-03	-0.10	-1.02e-03	8.76e-04	-8.05e-06	-4.27e-
06								
	18	22	-1.99e-03	0.0	-1.26e-03	0.0	-1.04e-05	0.0
	18	23	-1.34e-03	-0.01	-8.67e-04	1.04e-04	-6.92e-06	0.0
	18	26	-4.32e-03	-0.04	-2.68e-03	3.77e-04	-2.27e-05	-1.84e-
06								
	18	27	-1.23e-03	-0.07	-7.99e-04	5.84e-04	-6.33e-06	-2.84e-
06								
	18	41	-0.10	0.01	-8.88e-04	-7.96e-05	-3.29e-04	9.02e-05
	18	51	0.03	0.15	-9.12e-04	-1.08e-03	8.80e-05	1.16e-04
	18	63	0.03	0.07	-9.21e-04	-5.31e-04	8.74e-05	-7.08e-
05								
	18	73	-0.05	8.21e-03	-8.97e-04	-5.89e-05	-1.62e-04	1.59e-05
	18	83	0.01	0.06	-9.01e-04	-4.52e-04	3.89e-05	4.07e-05
	18	95	0.01	0.03	-9.03e-04	-2.49e-04	3.88e-05	-1.95e-
05								
	19	2	-6.73e-03	-0.06	-3.95e-03	5.66e-04	2.71e-05	1.60e-05
	19	5	-1.70e-03	-0.10	-1.05e-03	8.77e-04	8.54e-06	2.49e-05
	19	22	-2.16e-03	0.0	-1.30e-03	0.0	9.72e-06	0.0
	19	23	-1.46e-03	-0.01	-8.91e-04	1.04e-04	7.12e-06	2.94e-06
	19	26	-4.69e-03	-0.04	-2.76e-03	3.78e-04	1.90e-05	1.07e-05
	19	27	-1.34e-03	-0.07	-8.21e-04	5.85e-04	6.67e-06	1.66e-05
	19	41	-0.10	0.07	-9.54e-04	-4.87e-04	-3.02e-04	4.95e-04
	19	50	-0.10	-0.07	-9.59e-04	4.87e-04	-3.00e-04	-4.95e-
04								
	19	55	0.03	0.13	-9.10e-04	-9.45e-04	9.91e-05	7.31e-04
	19	73	-0.05	0.02	-9.34e-04	-1.60e-04	-1.39e-04	1.35e-04
	19	82	-0.05	-0.02	-9.35e-04	1.60e-04	-1.38e-04	-1.35e-
04								
	19	87	0.01	0.06	-9.19e-04	-4.63e-04	5.10e-05	1.86e-04
	20	2	-0.01	-0.05	-2.90e-03	4.50e-04	-7.07e-04	4.30e-05
	20	6	-7.51e-03	-0.08	-1.80e-03	6.98e-04	-4.37e-04	6.67e-05
	20	22	-3.94e-03	0.0	-9.53e-04	0.0	-2.31e-04	0.0
	20	23	-2.68e-03	-9.21e-03	-6.54e-04	8.24e-05	-1.57e-04	7.88e-06
	20	26	-8.49e-03	-0.03	-2.03e-03	3.00e-04	-4.93e-04	2.87e-05
	20	28	-5.37e-03	-0.05	-1.29e-03	4.65e-04	-3.13e-04	4.44e-05
	20	40	0.10	0.05	-7.93e-04	-3.78e-04	2.93e-04	8.45e-04
	20	41	-0.10	-0.05	-5.62e-04	3.78e-04	-6.19e-04	-8.45e-
04								
	20	56	0.03	-0.09	-7.17e-04	6.86e-04	-2.71e-05	8.48e-04
	20	72	0.04	0.02	-7.26e-04	-1.26e-04	5.55e-05	3.02e-04
	20	73	-0.05	-0.02	-6.29e-04	1.26e-04	-3.82e-04	-3.02e-
04								
	20	88	0.01	-0.04	-6.93e-04	3.23e-04	-9.78e-05	3.16e-04
	21	2	2.49e-03	-0.06	-3.84e-03	5.56e-04	3.02e-06	1.41e-05
	21	5	6.25e-04	-0.10	-1.02e-03	8.61e-04	0.0	2.18e-05
	21	22	7.97e-04	0.0	-1.26e-03	0.0	1.10e-06	0.0
	21	23	5.36e-04	-0.01	-8.68e-04	1.02e-04	0.0	2.58e-06
	21	26	1.73e-03	-0.04	-2.68e-03	3.71e-04	2.12e-06	9.38e-06
	21	27	4.91e-04	-0.06	-8.00e-04	5.74e-04	0.0	1.45e-05
	21	40	0.10	-0.05	-8.72e-04	3.42e-04	3.11e-04	-1.01e-
04								

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04	21	63	0.03	0.10	-9.42e-04	-7.10e-04	1.09e-04	-2.39e-
04	21	65	-0.03	0.08	-9.50e-04	-6.25e-04	-7.96e-05	-3.53e-
05	21	72	0.05	-0.02	-8.92e-04	1.37e-04	1.51e-04	-2.13e-
05	21	95	0.01	0.05	-9.05e-04	-3.47e-04	4.84e-05	-7.30e-
04	21	97	-0.01	0.04	-9.09e-04	-3.26e-04	-4.19e-05	-1.01e-
04	22	2	3.51e-03	-0.06	-3.87e-03	5.75e-04	3.93e-05	1.41e-06
	22	5	8.79e-04	-0.10	-1.03e-03	8.91e-04	8.49e-06	2.18e-06
	22	22	1.12e-03	0.0	-1.27e-03	0.0	1.18e-05	0.0
	22	23	7.54e-04	-0.01	-8.73e-04	1.05e-04	7.45e-06	0.0
	22	26	2.45e-03	-0.04	-2.70e-03	3.84e-04	2.73e-05	0.0
	22	27	6.90e-04	-0.07	-8.04e-04	5.94e-04	6.70e-06	1.45e-06
	22	40	0.10	-0.03	-9.19e-04	2.01e-04	3.33e-04	1.02e-04
	22	59	0.03	0.12	-8.92e-04	-8.77e-04	9.79e-05	-1.70e-
	22	60	0.03	-0.11	-9.23e-04	8.43e-04	1.12e-04	1.98e-04
	22	72	0.05	-0.01	-9.08e-04	1.10e-04	1.63e-04	2.37e-05
05	22	91	0.01	0.05	-9.02e-04	-3.95e-04	5.32e-05	-5.22e-
	23	2	3.97e-03	-0.06	-3.87e-03	5.74e-04	-1.61e-05	-3.02e-
	23	5	1.02e-03	-0.10	-1.03e-03	8.89e-04	-2.58e-06	-4.67e-
06	23	22	1.29e-03	0.0	-1.27e-03	0.0	-4.29e-06	0.0
	23	23	8.72e-04	-0.01	-8.73e-04	1.05e-04	-2.39e-06	0.0
	23	26	2.77e-03	-0.04	-2.70e-03	3.82e-04	-1.11e-05	-2.01e-
06	23	27	8.01e-04	-0.07	-8.04e-04	5.92e-04	-2.06e-06	-3.11e-
06	23	40	0.10	-0.03	-9.13e-04	2.31e-04	3.19e-04	1.23e-04
	23	59	0.03	0.13	-9.35e-04	-9.62e-04	9.65e-05	-1.75e-
04	23	72	0.05	-0.02	-9.06e-04	1.12e-04	1.52e-04	2.48e-05
	23	91	0.02	0.06	-9.09e-04	-4.17e-04	4.42e-05	-4.94e-
05	24	2	5.12e-03	-0.06	-3.84e-03	5.66e-04	2.91e-05	2.78e-06
	24	5	1.31e-03	-0.10	-1.02e-03	8.76e-04	7.20e-06	4.31e-06
	24	22	1.65e-03	0.0	-1.26e-03	0.0	9.25e-06	0.0
	24	23	1.12e-03	-0.01	-8.67e-04	1.03e-04	6.19e-06	0.0
	24	26	3.57e-03	-0.04	-2.68e-03	3.77e-04	2.03e-05	1.86e-06
	24	27	1.03e-03	-0.07	-7.99e-04	5.84e-04	5.66e-06	2.88e-06
	24	40	0.10	-0.05	-8.91e-04	4.02e-04	3.32e-04	-7.89e-
	24	62	-0.03	-0.14	-9.20e-04	1.02e-03	-8.52e-05	1.85e-04
04	24	63	0.03	0.14	-8.77e-04	-1.07e-03	9.80e-05	-1.11e-
06	24	72	0.05	-0.02	-8.97e-04	1.51e-04	1.62e-04	-9.91e-
05	24	93	-0.01	0.06	-8.95e-04	-4.52e-04	-4.10e-05	-3.96e-
05	24	94	-0.01	-0.06	-9.03e-04	4.41e-04	-3.93e-05	5.40e-05
	25	2	5.68e-03	-0.06	-3.95e-03	5.66e-04	-3.04e-05	-1.60e-
05	25	5	1.45e-03	-0.10	-1.05e-03	8.77e-04	-9.34e-06	-2.49e-
06	25	22	1.83e-03	0.0	-1.30e-03	0.0	-1.08e-05	0.0
	25	23	1.24e-03	-0.01	-8.91e-04	1.04e-04	-7.81e-06	-2.94e-
05	25	26	3.96e-03	-0.04	-2.76e-03	3.78e-04	-2.13e-05	-1.07e-
05	25	27	1.13e-03	-0.07	-8.21e-04	5.85e-04	-7.30e-06	-1.66e-
04	25	39	0.10	0.08	-9.57e-04	-6.17e-04	3.01e-04	-5.92e-
04	25	40	0.10	0.02	-9.51e-04	-1.18e-04	3.05e-04	-2.26e-
04	25	59	0.03	0.13	-9.42e-04	-9.42e-04	7.89e-05	-7.33e-
04	25	71	0.05	0.03	-9.35e-04	-2.26e-04	1.39e-04	-1.56e-
	25	72	0.05	-4.93e-03	-9.34e-04	3.46e-05	1.39e-04	-6.46e-

05									
	25	91	0.02	0.06	-9.28e-04	-4.63e-04	3.51e-05	-1.86e-	
04									
	26	2	0.01	-0.05	-2.90e-03	4.50e-04	7.02e-04	-4.30e-	
05									
	26	5	2.88e-03	-0.08	-7.68e-04	6.98e-04	1.83e-04	-6.67e-	
05									
	26	22	3.61e-03	0.0	-9.53e-04	0.0	2.29e-04	0.0	
	26	23	2.46e-03	-9.21e-03	-6.54e-04	8.24e-05	1.56e-04	-7.88e-	
06									
	26	26	7.76e-03	-0.03	-2.03e-03	3.00e-04	4.90e-04	-2.87e-	
05									
	26	27	2.26e-03	-0.05	-6.02e-04	4.65e-04	1.44e-04	-4.44e-	
05									
	26	40	0.10	-0.08	-5.79e-04	6.19e-04	6.25e-04	4.09e-04	
	26	50	-0.10	-0.08	-7.85e-04	6.19e-04	-2.96e-04	4.09e-04	
	26	60	0.03	-0.09	-6.60e-04	6.76e-04	3.07e-04	-8.43e-	
04									
	26	72	0.05	-0.03	-6.32e-04	2.45e-04	3.83e-04	1.36e-04	
	26	82	-0.04	-0.03	-7.25e-04	2.45e-04	-5.79e-05	1.36e-04	
	26	92	0.02	-0.04	-6.67e-04	3.22e-04	2.29e-04	-3.15e-	
04									
	27	2	5.08e-03	-0.04	-0.63	5.01e-03	6.50e-04	-3.03e-	
06									
	27	7	2.54e-04	-0.08	-0.35	2.54e-03	1.16e-04	-4.70e-	
06									
	27	22	1.76e-03	5.42e-03	-0.13	1.08e-03	2.06e-04	0.0	
	27	23	1.08e-03	-6.91e-03	-0.11	9.05e-04	1.37e-04	0.0	
	27	26	3.55e-03	-0.02	-0.43	3.44e-03	4.52e-04	-2.02e-	
06									
	27	27	5.76e-04	-0.05	-0.26	1.93e-03	1.25e-04	-3.13e-	
06									
	27	39	0.45	0.03	-0.06	2.32e-04	-0.04	1.64e-03	
	27	60	0.09	-0.06	-0.23	1.73e-03	-7.46e-03	2.54e-04	
	27	65	-0.04	0.07	0.06	-4.17e-04	2.58e-03	-8.56e-	
05									
	27	67	0.22	0.02	-0.07	5.00e-04	-0.02	7.64e-04	
	27	83	0.08	0.04	-0.02	1.63e-04	-6.37e-03	2.79e-04	
	27	92	0.05	-0.03	-0.16	1.21e-03	-4.41e-03	1.71e-04	
	28	2	9.60e-03	-0.05	0.02	6.93e-04	4.48e-04	-4.30e-	
05									
	28	5	2.56e-03	-0.08	4.70e-03	1.07e-03	1.31e-04	-6.67e-	
05									
	28	22	3.16e-03	0.0	5.63e-03	0.0	1.54e-04	0.0	
	28	23	2.18e-03	-9.17e-03	3.97e-03	1.27e-04	1.10e-04	-7.88e-	
06									
	28	26	6.70e-03	-0.03	0.01	4.62e-04	3.14e-04	-2.87e-	
05									
	28	27	2.01e-03	-0.05	3.68e-03	7.16e-04	1.02e-04	-4.44e-	
05									
	28	40	0.10	-0.10	0.02	7.54e-04	5.86e-04	4.76e-04	
	28	60	0.03	-0.11	9.80e-03	8.69e-04	2.66e-04	-9.63e-	
04									
	28	72	0.05	-0.04	0.01	2.98e-04	3.38e-04	1.71e-04	
	28	92	0.02	-0.05	6.70e-03	4.02e-04	1.83e-04	-3.49e-	
04									
	29	2	-0.01	-0.05	0.02	6.93e-04	-4.53e-04	4.30e-05	
	29	6	-6.61e-03	-0.08	0.01	1.07e-03	-2.87e-04	6.67e-05	
	29	22	-3.50e-03	0.0	5.68e-03	0.0	-1.56e-04	0.0	
	29	23	-2.40e-03	-9.17e-03	4.00e-03	1.27e-04	-1.11e-04	7.88e-06	
	29	26	-7.43e-03	-0.03	0.01	4.62e-04	-3.17e-04	2.87e-05	
	29	28	-4.74e-03	-0.05	7.58e-03	7.16e-04	-2.07e-04	4.44e-05	
	29	41	-0.10	-0.06	0.02	4.30e-04	-5.78e-04	-9.72e-	
04									
	29	50	-0.10	0.06	0.02	-4.30e-04	-5.83e-04	9.72e-04	
	29	56	0.03	-0.11	-1.08e-03	8.70e-04	2.36e-05	9.68e-04	
	29	73	-0.05	-0.02	0.01	1.45e-04	-3.37e-04	-3.56e-	
04									
	29	82	-0.05	0.02	0.01	-1.45e-04	-3.38e-04	3.56e-04	
	29	88	0.01	-0.05	1.62e-03	4.02e-04	-4.79e-05	3.50e-04	
	30	2	5.56e-03	-0.06	-0.01	7.63e-04	6.50e-04	-3.03e-	
06									
	30	5	1.36e-03	-0.09	-2.61e-03	1.18e-03	1.59e-04	-4.70e-	
06									
	30	22	1.76e-03	0.0	-3.34e-03	0.0	2.06e-04	0.0	

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06	30	23	1.17e-03	-0.01	-2.24e-03	1.40e-04	1.37e-04	0.0
	30	26	3.87e-03	-0.04	-7.30e-03	5.09e-04	4.52e-04	-2.02e-
06	30	27	1.07e-03	-0.06	-2.05e-03	7.88e-04	1.25e-04	-3.13e-
	30	40	0.10	-0.01	-8.53e-03	1.55e-04	4.35e-04	3.75e-04
04	30	64	0.03	-0.07	-4.25e-03	6.29e-04	2.33e-04	-2.33e-
	30	72	0.05	-8.22e-03	-5.30e-03	8.98e-05	2.83e-04	1.07e-04
05	30	88	0.02	-0.04	-3.22e-03	3.20e-04	1.85e-04	-6.66e-
	31	2	6.04e-03	-0.08	-0.28	-2.54e-03	6.50e-04	-3.03e-
06	31	6	4.13e-03	-0.10	-3.72e-03	-3.61e-04	3.96e-04	-4.70e-
	31	22	1.76e-03	-5.42e-03	-0.13	-1.08e-03	2.06e-04	0.0
06	31	23	1.26e-03	-0.01	-0.05	-4.52e-04	1.37e-04	0.0
	31	26	4.19e-03	-0.05	-0.20	-1.79e-03	4.52e-04	-2.02e-
06	31	28	2.92e-03	-0.07	-0.01	-3.34e-04	2.83e-04	-3.13e-
	31	48	0.45	-0.03	-0.06	-2.34e-04	-0.04	-1.64e-
03	31	62	-0.03	-0.07	0.06	4.10e-04	9.45e-04	6.28e-05
	31	63	0.08	0.06	-0.23	-1.72e-03	-5.82e-03	-2.31e-
04	31	80	0.22	-0.02	-0.07	-5.00e-04	-0.02	-7.64e-
	31	88	0.08	-0.04	-0.02	-1.63e-04	-4.49e-03	-2.79e-
04	31	95	0.05	0.03	-0.16	-1.21e-03	-4.17e-03	-1.68e-
	32	2	2.48e-03	-0.04	-0.92	5.79e-03	5.77e-04	-1.49e-
05	32	7	-2.80e-03	-0.09	-0.57	3.75e-03	1.01e-04	-2.31e-
	32	22	1.52e-03	5.42e-03	-0.18	1.08e-03	1.81e-04	0.0
06	32	23	5.74e-04	-8.00e-03	-0.17	1.05e-03	1.20e-04	-2.73e-
	32	26	1.80e-03	-0.03	-0.63	3.96e-03	4.01e-04	-9.96e-
06	32	27	-1.52e-03	-0.06	-0.42	2.73e-03	1.09e-04	-1.54e-
	32	39	0.45	0.07	-0.09	-2.10e-04	-0.04	1.54e-03
05	32	60	0.07	-0.06	-0.39	2.41e-03	-0.02	1.54e-04
	32	65	-6.47e-03	0.10	0.15	-1.23e-03	0.01	9.11e-05
05	32	67	0.22	0.03	-0.09	3.55e-04	-0.02	7.61e-04
	32	83	0.09	0.05	2.77e-03	-2.15e-04	-3.81e-03	3.36e-04
05	32	84	0.04	-0.04	-0.25	1.57e-03	-7.78e-03	9.94e-05
	33	2	4.84e-03	-0.06	-0.17	1.54e-03	5.77e-04	-1.49e-
05	33	5	1.17e-03	-0.10	-0.04	2.39e-03	1.39e-04	-2.31e-
	33	22	1.52e-03	0.0	-0.05	0.0	1.81e-04	0.0
06	33	23	1.01e-03	-0.01	-0.04	2.82e-04	1.20e-04	-2.73e-
	33	26	3.37e-03	-0.04	-0.12	1.03e-03	4.01e-04	-9.96e-
06	33	27	9.17e-04	-0.07	-0.03	1.59e-03	1.09e-04	-1.54e-
	33	40	0.10	0.02	-0.05	1.47e-04	-3.84e-05	5.34e-05
05	33	65	-0.03	0.09	-0.03	-1.27e-03	1.82e-04	1.75e-04
	33	72	0.05	-1.52e-03	-0.04	1.38e-04	4.77e-05	8.53e-06
05	33	88	0.01	-0.05	-0.04	6.30e-04	1.01e-04	-7.00e-
	34	2	7.21e-03	-0.08	-0.32	-1.76e-03	5.77e-04	-1.49e-
05	34	6	6.60e-03	-0.11	0.09	8.48e-04	3.51e-04	-2.31e-
	34	7	4.51e-03	-0.10	0.36	2.50e-03	1.01e-04	-2.31e-
05	34	22	1.52e-03	-5.42e-03	-0.18	-1.08e-03	1.81e-04	0.0
	34	23	1.44e-03	-0.01	-0.06	-3.10e-04	1.20e-04	-2.73e-
06	34	26	4.94e-03	-0.05	-0.23	-1.27e-03	4.01e-04	-9.96e-

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06								
	34	28	4.54e-03	-0.07	0.04	4.72e-04	2.50e-04	-1.54e-
05								
	34	44	0.45	-0.07	-0.10	1.92e-04	-0.04	-1.54e-
03								
	34	62	-6.88e-03	-0.10	0.14	1.18e-03	-4.35e-04	-8.65e-
05								
	34	63	0.07	0.06	-0.38	-2.36e-03	-6.40e-03	-1.59e-
04								
	34	76	0.22	-0.03	-0.09	-3.55e-04	-0.02	-7.61e-
04								
	34	87	0.04	0.04	-0.25	-1.57e-03	-3.81e-03	-9.94e-
05								
	34	88	0.09	-0.05	2.76e-03	2.15e-04	-7.78e-03	-3.36e-
04								
	35	2	-0.01	-0.04	-0.77	5.51e-03	-1.50e-03	-1.53e-
05								
	35	7	-5.15e-03	-0.09	-0.48	3.30e-03	-2.66e-04	-2.37e-
05								
	35	22	-2.50e-03	5.42e-03	-0.15	1.08e-03	-4.73e-04	0.0
	35	23	-2.10e-03	-8.07e-03	-0.14	9.95e-04	-3.14e-04	-2.80e-
06								
	35	26	-7.12e-03	-0.03	-0.53	3.76e-03	-1.05e-03	-1.02e-
05								
	35	27	-4.01e-03	-0.06	-0.35	2.44e-03	-2.86e-04	-1.58e-
05								
	35	37	-0.61	-5.08e-03	-0.09	6.58e-04	0.05	-2.22e-
03								
	35	58	0.05	-0.07	-0.32	2.02e-03	-5.05e-03	3.74e-04
	35	59	0.07	0.10	0.12	-8.51e-04	-7.73e-03	1.57e-04
	35	69	-0.25	8.37e-03	-0.08	5.76e-04	0.02	-8.83e-
04								
	35	89	-0.07	0.05	1.54e-03	-6.13e-05	5.18e-03	-2.52e-
04								
	35	90	6.43e-04	-0.04	-0.21	1.40e-03	-8.73e-04	7.01e-05
	36	2	-7.91e-03	-0.07	-0.07	1.25e-03	-1.50e-03	-1.53e-
05								
	36	5	-1.92e-03	-0.10	-0.02	1.94e-03	-3.64e-04	-2.37e-
05								
	36	22	-2.50e-03	0.0	-0.02	0.0	-4.73e-04	0.0
	36	23	-1.66e-03	-0.01	-0.02	2.30e-04	-3.14e-04	-2.80e-
06								
	36	26	-5.51e-03	-0.04	-0.05	8.37e-04	-1.05e-03	-1.02e-
05								
	36	27	-1.51e-03	-0.07	-0.01	1.30e-03	-2.86e-04	-1.58e-
05								
	36	41	-0.10	-8.32e-03	-0.03	-1.00e-04	-3.10e-04	1.64e-04
	36	42	-0.10	-0.06	-0.03	5.13e-04	-3.19e-04	2.83e-04
	36	64	0.03	-0.10	-0.01	1.08e-03	-3.45e-04	2.65e-04
	36	73	-0.05	4.04e-03	-0.02	-1.03e-04	-3.22e-04	3.55e-05
	36	74	-0.05	-0.02	-0.02	1.94e-04	-3.24e-04	6.97e-05
	36	89	-0.02	0.05	-0.02	-5.43e-04	-3.25e-04	-8.91e-
05								
	37	2	-5.49e-03	-0.08	-0.27	-2.05e-03	-1.50e-03	-1.53e-
05								
	37	6	-1.07e-03	-0.11	0.08	4.01e-04	-9.14e-04	-2.37e-
05								
	37	7	2.34e-03	-0.10	0.31	2.05e-03	-2.66e-04	-2.37e-
05								
	37	22	-2.50e-03	-5.42e-03	-0.15	-1.08e-03	-4.73e-04	0.0
	37	23	-1.21e-03	-0.01	-0.05	-3.62e-04	-3.14e-04	-2.80e-
06								
	37	26	-3.89e-03	-0.05	-0.19	-1.46e-03	-1.05e-03	-1.02e-
05								
	37	28	-9.44e-04	-0.07	0.04	1.74e-04	-6.53e-04	-1.58e-
05								
	37	46	-0.61	5.08e-03	-0.09	-6.58e-04	0.05	2.22e-03
	37	53	0.05	0.07	-0.32	-2.02e-03	0.01	-3.74e-
04								
	37	64	0.07	-0.10	0.12	8.58e-04	-0.02	-1.62e-
04								
	37	78	-0.25	-8.37e-03	-0.08	-5.76e-04	0.02	8.83e-04
	37	85	6.38e-04	0.04	-0.21	-1.40e-03	5.18e-03	-7.01e-
05								
	37	86	-0.07	-0.05	1.54e-03	6.14e-05	-8.75e-04	2.52e-04

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06	38	2	8.87e-03	-0.05	-0.77	5.49e-03	1.50e-03	-6.13e-
	38	7	2.32e-04	-0.10	-0.48	3.29e-03	2.66e-04	-9.49e-
06	38	22	3.09e-03	5.42e-03	-0.15	1.08e-03	4.73e-04	0.0
	38	23	1.87e-03	-8.33e-03	-0.14	9.93e-04	3.14e-04	-1.12e-
06	38	26	6.19e-03	-0.03	-0.52	3.76e-03	1.05e-03	-4.08e-
06	38	27	8.64e-04	-0.06	-0.35	2.42e-03	2.86e-04	-6.33e-
06	38	35	0.60	0.05	-0.08	-1.38e-04	-0.05	2.20e-03
	38	52	0.02	-0.10	-0.34	2.21e-03	-0.03	-1.09e-
04	38	57	0.09	0.11	0.15	-1.03e-03	0.02	5.22e-04
	38	67	0.25	0.02	-0.08	3.68e-04	-0.02	8.83e-04
	38	83	0.11	0.05	9.86e-03	-1.10e-04	-2.83e-03	4.47e-04
	38	84	0.03	-0.05	-0.21	1.45e-03	-9.63e-03	4.71e-05
	39	2	9.84e-03	-0.07	-0.07	1.24e-03	1.50e-03	-6.13e-
06	39	5	2.37e-03	-0.10	-0.02	1.93e-03	3.64e-04	-9.49e-
06	39	22	3.09e-03	0.0	-0.02	0.0	4.73e-04	0.0
	39	23	2.04e-03	-0.01	-0.01	2.28e-04	3.14e-04	-1.12e-
06	39	26	6.84e-03	-0.04	-0.05	8.29e-04	1.05e-03	-4.08e-
06	39	27	1.86e-03	-0.07	-0.01	1.28e-03	2.86e-04	-6.33e-
06	39	40	0.10	-0.02	-0.03	1.51e-04	3.63e-04	1.12e-04
	39	47	0.10	0.02	-0.03	-1.51e-04	3.69e-04	-1.12e-
04	39	57	-0.03	0.11	-0.01	-1.22e-03	3.18e-04	3.95e-04
	39	72	0.05	-0.01	-0.02	1.07e-04	3.44e-04	2.17e-05
	39	79	0.05	0.01	-0.02	-1.07e-04	3.45e-04	-2.17e-
05	39	89	-0.01	0.05	-0.01	-5.83e-04	3.22e-04	1.21e-04
	40	2	0.01	-0.08	-0.27	-2.06e-03	1.50e-03	-6.13e-
06	40	6	7.48e-03	-0.11	0.08	3.84e-04	9.14e-04	-9.49e-
06	40	7	3.23e-03	-0.10	0.30	2.03e-03	2.66e-04	-9.49e-
06	40	22	3.09e-03	-5.42e-03	-0.15	-1.08e-03	4.73e-04	0.0
	40	23	2.22e-03	-0.02	-0.05	-3.65e-04	3.14e-04	-1.12e-
06	40	26	7.49e-03	-0.06	-0.19	-1.47e-03	1.05e-03	-4.08e-
06	40	28	5.27e-03	-0.07	0.04	1.62e-04	6.53e-04	-6.33e-
06	40	44	0.60	-0.05	-0.08	1.38e-04	-0.05	-2.20e-
03	40	54	0.09	-0.11	0.15	1.02e-03	-6.54e-03	-5.21e-
04	40	55	0.02	0.10	-0.34	-2.21e-03	-3.16e-03	1.09e-04
	40	76	0.25	-0.02	-0.08	-3.68e-04	-0.02	-8.83e-
04	40	87	0.03	0.05	-0.21	-1.45e-03	-2.82e-03	-4.71e-
05	40	88	0.11	-0.05	9.86e-03	1.10e-04	-9.63e-03	-4.47e-
04	41	2	-2.34e-03	-0.05	-0.93	5.84e-03	-4.87e-04	0.0
	41	7	-3.56e-04	-0.10	-0.58	3.83e-03	-8.54e-05	0.0
	41	22	-7.58e-04	5.42e-03	-0.18	1.08e-03	-1.53e-04	0.0
	41	23	-4.98e-04	-8.77e-03	-0.17	1.06e-03	-1.01e-04	0.0
	41	26	-1.63e-03	-0.03	-0.64	3.99e-03	-3.39e-04	0.0
	41	27	-4.13e-04	-0.07	-0.43	2.79e-03	-9.20e-05	0.0
	41	37	-0.51	0.05	-0.06	2.71e-04	0.04	-1.76e-
	41	53	-0.19	0.13	0.19	-1.48e-03	9.18e-03	-7.10e-
04	41	58	-0.02	-0.13	-0.45	2.87e-03	9.21e-03	1.87e-05
	41	69	-0.23	0.02	-0.08	4.38e-04	0.02	-7.92e-
04	41	85	-0.08	0.06	0.03	-3.44e-04	4.81e-03	-2.87e-

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04								
	41	90	-0.02	-0.05	-0.27	1.74e-03	3.73e-03	-3.67e-
05								
	42	2	-2.39e-03	-0.07	-0.17	1.59e-03	-4.87e-04	0.0
	42	5	-5.89e-04	-0.11	-0.04	2.47e-03	-1.17e-04	0.0
	42	22	-7.58e-04	0.0	-0.05	0.0	-1.53e-04	0.0
	42	23	-5.06e-04	-0.01	-0.04	2.92e-04	-1.01e-04	0.0
	42	26	-1.66e-03	-0.05	-0.12	1.06e-03	-3.39e-04	0.0
	42	27	-4.63e-04	-0.07	-0.03	1.65e-03	-9.20e-05	0.0
	42	41	-0.10	0.04	-0.04	-2.63e-04	4.42e-05	-9.16e-
05								
	42	52	0.03	-0.13	-0.04	1.53e-03	-1.48e-04	1.28e-04
	42	73	-0.05	0.02	-0.04	-1.53e-04	-3.36e-05	-3.16e-
05								
	42	87	0.01	0.06	-0.04	-7.39e-04	-1.27e-04	-4.26e-
05								
	43	2	-2.44e-03	-0.09	-0.32	-1.71e-03	-4.87e-04	0.0
	43	6	-1.53e-03	-0.11	0.10	9.26e-04	-2.96e-04	0.0
	43	7	-5.06e-04	-0.11	0.37	2.57e-03	-8.54e-05	0.0
	43	22	-7.58e-04	-5.42e-03	-0.18	-1.08e-03	-1.53e-04	0.0
	43	23	-5.15e-04	-0.02	-0.06	-3.01e-04	-1.01e-04	0.0
	43	26	-1.70e-03	-0.06	-0.23	-1.23e-03	-3.39e-04	0.0
	43	28	-1.09e-03	-0.08	0.05	5.24e-04	-2.11e-04	0.0
	43	46	-0.51	-0.05	-0.06	-2.71e-04	0.05	1.76e-03
	43	53	-0.02	0.13	-0.45	-2.87e-03	5.55e-04	-1.76e-
05								
	43	58	-0.19	-0.13	0.19	1.48e-03	0.02	7.09e-04
	43	78	-0.23	-0.02	-0.08	-4.38e-04	0.02	7.92e-04
	43	85	-0.02	0.05	-0.27	-1.74e-03	1.06e-03	3.68e-05
	43	90	-0.08	-0.06	0.03	3.44e-04	7.48e-03	2.87e-04
	44	2	-4.32e-03	-0.04	-0.65	5.12e-03	-8.10e-04	1.85e-06
	44	7	-3.86e-04	-0.09	-0.38	2.71e-03	-1.44e-04	2.86e-06
	44	22	-1.47e-03	5.42e-03	-0.13	1.08e-03	-2.56e-04	0.0
	44	23	-9.30e-04	-7.95e-03	-0.12	9.25e-04	-1.70e-04	0.0
	44	26	-3.01e-03	-0.03	-0.45	3.51e-03	-5.63e-04	1.23e-06
	44	27	-5.98e-04	-0.06	-0.28	2.04e-03	-1.55e-04	1.91e-06
	44	37	-0.50	0.05	-0.04	3.51e-05	0.04	-1.73e-
03								
	44	53	-0.21	0.12	0.13	-9.85e-04	6.18e-03	-8.09e-
04								
	44	54	-0.08	-0.11	-0.32	2.28e-03	0.02	-1.70e-
04								
	44	73	-0.23	0.02	-0.07	4.66e-04	0.02	-7.93e-
04								
	44	85	-0.08	0.06	0.01	-3.96e-05	4.05e-03	-2.95e-
04								
	44	90	-0.02	-0.05	-0.19	1.44e-03	4.26e-03	-2.82e-
05								
	45	2	-4.61e-03	-0.06	-0.01	8.74e-04	-8.10e-04	1.85e-06
	45	5	-1.14e-03	-0.10	-3.49e-03	1.35e-03	-1.97e-04	2.86e-06
	45	22	-1.47e-03	0.0	-4.49e-03	0.0	-2.56e-04	0.0
	45	23	-9.83e-04	-0.01	-3.00e-03	1.60e-04	-1.70e-04	0.0
	45	26	-3.21e-03	-0.04	-9.81e-03	5.83e-04	-5.63e-04	1.23e-06
	45	27	-8.99e-04	-0.07	-2.75e-03	9.03e-04	-1.55e-04	1.91e-06
	45	41	-0.10	0.04	-8.96e-03	-3.30e-04	-3.85e-04	-1.17e-
04								
	45	49	-0.10	0.02	-8.96e-03	-1.92e-04	-3.85e-04	-3.24e-
06								
	45	52	0.03	-0.12	-1.33e-03	1.06e-03	-1.12e-04	2.19e-04
	45	73	-0.05	0.01	-5.90e-03	-1.26e-04	-2.75e-04	-3.96e-
05								
	45	81	-0.05	0.01	-5.90e-03	-1.01e-04	-2.75e-04	1.23e-06
	45	84	0.01	-0.05	-2.28e-03	4.81e-04	-1.47e-04	6.70e-05
	46	2	-4.90e-03	-0.08	-0.27	-2.43e-03	-8.10e-04	1.85e-06
	46	6	-3.27e-03	-0.11	0.02	-1.88e-04	-4.93e-04	2.86e-06
	46	22	-1.47e-03	-5.42e-03	-0.13	-1.08e-03	-2.56e-04	0.0
	46	23	-1.04e-03	-0.01	-0.05	-4.32e-04	-1.70e-04	0.0
	46	26	-3.40e-03	-0.05	-0.19	-1.71e-03	-5.63e-04	1.23e-06
	46	28	-2.32e-03	-0.07	2.72e-03	-2.19e-04	-3.52e-04	1.91e-06
	46	46	-0.50	-0.05	-0.04	-3.56e-05	0.05	1.73e-03
	46	57	-0.08	0.11	-0.32	-2.28e-03	6.15e-03	1.70e-04
	46	58	-0.21	-0.12	0.13	9.84e-04	0.02	8.10e-04
	46	82	-0.23	-0.02	-0.07	-4.65e-04	0.02	7.93e-04
	46	85	-0.02	0.05	-0.19	-1.44e-03	3.64e-04	2.81e-05
	46	90	-0.08	-0.06	0.01	3.95e-05	7.94e-03	2.95e-04

	47	2	3.29e-03	-0.05	-0.87	5.71e-03	1.30e-03	0.0
	47	7	7.02e-04	-0.10	-0.54	3.62e-03	2.29e-04	1.14e-06
	47	22	9.67e-04	5.42e-03	-0.17	1.08e-03	4.09e-04	0.0
	47	23	6.46e-04	-8.89e-03	-0.16	1.03e-03	2.70e-04	0.0
	47	26	2.28e-03	-0.03	-0.60	3.90e-03	9.05e-04	0.0
	47	27	6.85e-04	-0.07	-0.40	2.65e-03	2.47e-04	0.0
	47	35	0.50	0.03	-0.05	3.06e-04	-0.05	1.72e-03
	47	55	0.13	0.13	0.21	-1.70e-03	-0.01	4.75e-04
	47	56	1.35e-03	-0.12	-0.46	2.92e-03	1.05e-03	-1.22e-
04								
	47	67	0.23	0.02	-0.08	4.63e-04	-0.02	7.91e-04
	47	84	0.05	-0.06	-0.26	1.74e-03	-3.84e-03	1.32e-04
	47	87	0.05	0.06	0.03	-3.42e-04	-4.20e-03	1.87e-04
	48	2	3.17e-03	-0.07	-0.14	1.46e-03	1.30e-03	0.0
	48	5	7.17e-04	-0.11	-0.03	2.26e-03	3.14e-04	1.14e-06
	48	22	9.67e-04	0.0	-0.04	0.0	4.09e-04	0.0
	48	23	6.24e-04	-0.01	-0.03	2.67e-04	2.70e-04	0.0
	48	26	2.20e-03	-0.05	-0.10	9.74e-04	9.05e-04	0.0
	48	27	5.65e-04	-0.07	-0.03	1.51e-03	2.47e-04	0.0
	48	40	0.10	-0.04	-0.04	5.35e-04	1.93e-04	1.97e-05
	48	52	0.03	-0.13	-0.03	1.72e-03	2.57e-04	-1.51e-
04								
	48	72	0.05	-0.01	-0.03	1.89e-04	2.38e-04	1.14e-05
	48	84	0.01	-0.06	-0.03	7.54e-04	2.69e-04	-5.17e-
05								
	49	2	3.05e-03	-0.09	-0.30	-1.84e-03	1.30e-03	0.0
	49	6	1.72e-03	-0.12	0.09	7.21e-04	7.91e-04	1.14e-06
	49	7	3.41e-04	-0.11	0.34	2.37e-03	2.29e-04	1.14e-06
	49	22	9.67e-04	-5.42e-03	-0.17	-1.08e-03	4.09e-04	0.0
	49	23	6.03e-04	-0.02	-0.06	-3.25e-04	2.70e-04	0.0
	49	26	2.12e-03	-0.06	-0.21	-1.32e-03	9.05e-04	0.0
	49	28	1.23e-03	-0.08	0.04	3.87e-04	5.65e-04	0.0
	49	44	0.50	-0.03	-0.05	-3.07e-04	-0.04	-1.72e-
03								
	49	51	1.34e-03	0.12	-0.46	-2.92e-03	-0.01	1.22e-04
	49	52	0.13	-0.13	0.21	1.70e-03	1.05e-03	-4.75e-
04								
	49	76	0.23	-0.02	-0.08	-4.63e-04	-0.02	-7.91e-
04								
	49	84	0.05	-0.06	0.03	3.42e-04	-1.94e-04	-1.87e-
04								
	49	87	0.05	0.06	-0.26	-1.74e-03	-7.85e-03	-1.32e-
04								
	50	2	-0.01	-0.05	-0.87	5.70e-03	-1.32e-03	1.08e-06
	50	7	-2.04e-03	-0.10	-0.54	3.61e-03	-2.32e-04	1.67e-06
	50	22	-4.06e-03	5.42e-03	-0.17	1.08e-03	-4.14e-04	0.0
	50	23	-2.67e-03	-8.86e-03	-0.16	1.03e-03	-2.74e-04	0.0
	50	26	-8.81e-03	-0.03	-0.59	3.90e-03	-9.16e-04	0.0
	50	27	-2.30e-03	-0.07	-0.40	2.64e-03	-2.50e-04	1.11e-06
	50	37	-0.49	0.04	-0.05	-2.95e-04	0.04	-1.70e-
03								
	50	51	0.08	0.14	0.24	-1.56e-03	-7.96e-03	1.99e-04
	50	54	-0.08	-0.13	-0.46	2.96e-03	7.39e-03	-1.99e-
04								
	50	69	-0.23	0.02	-0.08	3.18e-04	0.02	-7.90e-
04								
	50	83	0.04	0.06	0.04	-3.09e-04	-4.45e-03	1.35e-04
	50	90	-0.01	-0.06	-0.26	1.75e-03	2.29e-04	3.13e-06
	51	2	-0.01	-0.07	-0.14	1.45e-03	-1.32e-03	1.08e-06
	51	5	-3.14e-03	-0.11	-0.03	2.25e-03	-3.18e-04	1.67e-06
	51	22	-4.06e-03	0.0	-0.04	0.0	-4.14e-04	0.0
	51	23	-2.71e-03	-0.01	-0.03	2.66e-04	-2.74e-04	0.0
	51	26	-8.92e-03	-0.05	-0.09	9.69e-04	-9.16e-04	0.0
	51	27	-2.47e-03	-0.07	-0.03	1.50e-03	-2.50e-04	1.11e-06
	51	41	-0.10	0.02	-0.04	-5.03e-04	-1.94e-04	-9.42e-
05								
	51	50	-0.10	-0.02	-0.04	5.03e-04	-2.00e-04	9.42e-05
	51	51	0.03	0.13	-0.03	-1.68e-03	-3.08e-04	-1.25e-
04								
	51	73	-0.05	0.01	-0.03	-1.86e-04	-2.43e-04	-3.57e-
05								
	51	82	-0.05	-0.01	-0.03	1.86e-04	-2.44e-04	3.57e-05
	51	88	0.01	-0.06	-0.03	7.49e-04	-2.98e-04	4.27e-05
	52	2	-0.01	-0.09	-0.30	-1.85e-03	-1.32e-03	1.08e-06
	52	6	-8.09e-03	-0.12	0.09	7.10e-04	-8.01e-04	1.67e-06

LUMINORA LA FEUDALE SRL			green & green WE ENGINEERING			CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture		
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04	52	7	-2.56e-03	-0.11	0.34	2.36e-03	-2.32e-04	1.67e-06
	52	22	-4.06e-03	-5.42e-03	-0.17	-1.08e-03	-4.14e-04	0.0
	52	23	-2.74e-03	-0.02	-0.06	-3.26e-04	-2.74e-04	0.0
	52	26	-9.04e-03	-0.06	-0.21	-1.33e-03	-9.16e-04	0.0
	52	28	-5.77e-03	-0.08	0.04	3.80e-04	-5.72e-04	1.11e-06
	52	46	-0.49	-0.04	-0.05	2.95e-04	0.04	1.70e-03
06	52	56	0.08	-0.14	0.24	1.56e-03	-0.02	-1.98e-
	52	57	-0.08	0.13	-0.46	-2.96e-03	0.02	1.98e-04
	52	78	-0.23	-0.02	-0.08	-3.18e-04	0.02	7.90e-04
04	52	85	-0.01	0.06	-0.26	-1.75e-03	4.15e-03	-3.20e-
	52	88	0.04	-0.06	0.04	3.09e-04	-8.37e-03	-1.35e-
03	53	2	2.66e-04	-0.04	-0.66	5.15e-03	8.37e-04	2.88e-06
	53	7	6.32e-04	-0.10	-0.38	2.75e-03	1.49e-04	4.46e-06
	53	22	-8.90e-05	5.42e-03	-0.13	1.08e-03	2.64e-04	0.0
	53	23	7.31e-06	-8.21e-03	-0.12	9.29e-04	1.75e-04	0.0
	53	26	1.67e-04	-0.03	-0.45	3.52e-03	5.82e-04	1.92e-06
	53	27	3.96e-04	-0.06	-0.28	2.07e-03	1.60e-04	2.97e-06
	53	38	-0.50	-0.04	-0.13	1.02e-03	0.04	-1.74e-
	53	51	0.23	0.13	0.16	-1.02e-03	-5.91e-03	9.00e-04
04	53	52	0.06	-0.12	-0.34	2.54e-03	-0.02	6.76e-05
	53	70	-0.23	-0.01	-0.11	8.76e-04	0.02	-7.96e-
	53	83	0.09	0.06	0.02	-5.16e-05	-4.14e-03	3.28e-04
05	53	84	0.05	-0.05	-0.20	1.48e-03	-7.76e-03	1.32e-04
	54	2	-1.89e-04	-0.07	-0.02	8.96e-04	8.37e-04	2.88e-06
	54	5	-9.50e-05	-0.10	-3.74e-03	1.39e-03	2.03e-04	4.46e-06
	54	22	-8.90e-05	0.0	-4.82e-03	0.0	2.64e-04	0.0
	54	23	-7.59e-05	-0.01	-3.22e-03	1.64e-04	1.75e-04	0.0
	54	26	-1.36e-04	-0.04	-0.01	5.97e-04	5.82e-04	1.92e-06
	54	27	-7.36e-05	-0.07	-2.94e-03	9.25e-04	1.60e-04	2.97e-06
	54	39	0.10	0.03	-9.59e-03	-1.40e-04	3.85e-04	1.26e-04
	54	41	-0.10	0.02	2.83e-03	-3.26e-04	-1.59e-05	-2.57e-
	54	56	0.03	-0.13	-5.17e-03	1.19e-03	2.40e-04	-2.52e-
	54	71	0.05	0.01	-6.32e-03	-8.57e-05	2.78e-04	3.69e-05
	54	73	-0.05	9.32e-03	-3.78e-04	-1.24e-04	8.67e-05	-7.92e-
05	54	88	0.01	-0.06	-4.23e-03	5.20e-04	2.11e-04	-7.31e-
	55	2	-6.43e-04	-0.08	-0.27	-2.41e-03	8.37e-04	2.88e-06
	55	6	-8.44e-04	-0.11	0.03	-1.54e-04	5.10e-04	4.46e-06
	55	22	-8.90e-05	-5.42e-03	-0.13	-1.08e-03	2.64e-04	0.0
	55	23	-1.59e-04	-0.01	-0.05	-4.28e-04	1.75e-04	0.0
	55	26	-4.39e-04	-0.06	-0.19	-1.70e-03	5.82e-04	1.92e-06
	55	28	-5.73e-04	-0.07	5.84e-03	-1.96e-04	3.64e-04	2.97e-06
	55	45	-0.50	0.04	-0.13	-1.02e-03	0.05	1.74e-03
	55	55	0.06	0.12	-0.34	-2.54e-03	-5.89e-03	-6.75e-
	55	56	0.23	-0.13	0.16	1.02e-03	-0.02	-9.00e-
04	55	77	-0.23	0.01	-0.11	-8.76e-04	0.02	7.96e-04
	55	87	0.05	0.05	-0.20	-1.48e-03	-4.14e-03	-1.32e-
04	55	88	0.09	-0.06	0.02	5.17e-05	-7.76e-03	-3.28e-
	56	2	-2.32e-03	-0.05	-0.93	5.85e-03	4.55e-04	3.02e-06
03	56	7	1.92e-04	-0.10	-0.58	3.84e-03	8.00e-05	4.67e-06
	56	22	-9.20e-04	5.42e-03	-0.18	1.08e-03	1.43e-04	0.0
	56	23	-5.45e-04	-8.90e-03	-0.17	1.06e-03	9.44e-05	0.0
	56	26	-1.64e-03	-0.03	-0.64	3.99e-03	3.17e-04	2.01e-06
	56	27	-9.01e-05	-0.07	-0.43	2.79e-03	8.61e-05	3.11e-06
	56	38	-0.49	-0.05	-0.18	2.00e-03	0.04	-1.68e-
	56	51	0.18	0.16	0.27	-2.32e-03	-0.02	6.90e-04
	56	52	0.10	-0.15	-0.55	3.46e-03	-9.39e-03	2.83e-04
04	56	70	-0.23	-0.02	-0.16	1.14e-03	0.02	-7.76e-
	56	83	0.08	0.07	0.05	-5.35e-04	-7.08e-03	2.87e-04
	56	84	0.05	-0.06	-0.30	1.89e-03	-4.96e-03	1.68e-04
	57	2	-2.80e-03	-0.07	-0.17	1.60e-03	4.55e-04	3.02e-06

	57	5	-7.42e-04	-0.11	-0.04	2.48e-03	1.09e-04	4.67e-06
	57	22	-9.20e-04	0.0	-0.05	0.0	1.43e-04	0.0
	57	23	-6.32e-04	-0.01	-0.04	2.93e-04	9.44e-05	0.0
	57	26	-1.95e-03	-0.05	-0.12	1.07e-03	3.17e-04	2.01e-06
	57	27	-5.82e-04	-0.07	-0.03	1.65e-03	8.61e-05	3.11e-06
	57	39	0.09	0.04	-0.04	-6.39e-04	-5.60e-05	7.72e-05
05	57	41	-0.10	0.02	-0.04	-1.18e-04	2.51e-04	-2.82e-
	57	51	0.03	0.16	-0.04	-2.14e-03	5.10e-05	1.37e-04
	57	71	0.04	0.01	-0.04	-2.14e-04	2.47e-05	2.76e-05
05	57	73	-0.05	9.78e-03	-0.04	-1.25e-04	1.72e-04	-1.14e-
05	57	88	0.01	-0.07	-0.04	8.81e-04	7.64e-05	-4.41e-
	58	2	-3.28e-03	-0.09	-0.31	-1.70e-03	4.55e-04	3.02e-06
	58	6	-2.47e-03	-0.12	0.10	9.39e-04	2.77e-04	4.67e-06
	58	7	-1.28e-03	-0.11	0.37	2.59e-03	8.00e-05	4.67e-06
	58	22	-9.20e-04	-5.42e-03	-0.18	-1.08e-03	1.43e-04	0.0
	58	23	-7.19e-04	-0.02	-0.06	-2.99e-04	9.44e-05	0.0
	58	26	-2.27e-03	-0.06	-0.23	-1.23e-03	3.17e-04	2.01e-06
	58	28	-1.74e-03	-0.08	0.05	5.33e-04	1.97e-04	3.11e-06
	58	45	-0.49	0.05	-0.18	-2.00e-03	0.04	1.68e-03
	58	55	0.10	0.15	-0.55	-3.46e-03	-0.02	-2.83e-
04	58	56	0.18	-0.16	0.27	2.32e-03	-9.43e-03	-6.90e-
04	58	77	-0.23	0.02	-0.16	-1.14e-03	0.02	7.76e-04
	58	87	0.05	0.06	-0.30	-1.89e-03	-7.07e-03	-1.68e-
04	58	88	0.08	-0.07	0.05	5.35e-04	-4.97e-03	-2.86e-
	59	2	-0.01	-0.05	-0.76	5.49e-03	-1.49e-03	0.0
	59	7	-2.70e-03	-0.10	-0.47	3.28e-03	-2.63e-04	0.0
	59	22	-4.69e-03	5.42e-03	-0.15	1.08e-03	-4.68e-04	0.0
	59	23	-3.14e-03	-8.46e-03	-0.14	9.92e-04	-3.11e-04	0.0
	59	26	-0.01	-0.03	-0.52	3.75e-03	-1.04e-03	0.0
	59	27	-2.89e-03	-0.06	-0.35	2.42e-03	-2.83e-04	0.0
	59	37	-0.53	0.04	-0.05	3.75e-04	0.04	-1.84e-
03	59	57	-0.13	0.15	0.21	-1.62e-03	-9.11e-04	-4.56e-
04	59	58	-0.01	-0.14	-0.43	2.81e-03	0.01	7.29e-05
	59	69	-0.23	0.02	-0.07	5.04e-04	0.02	-7.95e-
04	59	89	-0.05	0.07	0.03	-2.60e-04	9.97e-05	-1.76e-
04	59	90	-0.02	-0.06	-0.24	1.61e-03	4.27e-03	-7.47e-
06	60	2	-0.01	-0.07	-0.07	1.24e-03	-1.49e-03	0.0
	60	5	-3.64e-03	-0.10	-0.02	1.92e-03	-3.60e-04	0.0
	60	22	-4.69e-03	0.0	-0.02	0.0	-4.68e-04	0.0
	60	23	-3.13e-03	-0.01	-0.01	2.27e-04	-3.11e-04	0.0
	60	26	-0.01	-0.04	-0.05	8.26e-04	-1.04e-03	0.0
	60	27	-2.86e-03	-0.07	-0.01	1.28e-03	-2.83e-04	0.0
	60	41	-0.10	0.02	-0.03	-1.17e-04	-3.72e-04	-1.63e-
04	60	51	0.03	0.15	-0.01	-1.71e-03	-3.12e-04	-1.18e-
04	60	73	-0.05	9.06e-03	-0.02	-9.70e-05	-3.45e-04	-3.78e-
05	60	88	0.01	-0.06	-0.01	7.06e-04	-3.16e-04	4.79e-05
	61	2	-0.01	-0.08	-0.26	-2.07e-03	-1.49e-03	0.0
	61	6	-8.99e-03	-0.11	0.08	3.76e-04	-9.05e-04	0.0
	61	7	-2.63e-03	-0.10	0.30	2.03e-03	-2.63e-04	0.0
	61	22	-4.69e-03	-5.42e-03	-0.15	-1.08e-03	-4.68e-04	0.0
	61	23	-3.13e-03	-0.02	-0.05	-3.65e-04	-3.11e-04	0.0
	61	26	-0.01	-0.06	-0.19	-1.47e-03	-1.04e-03	0.0
	61	28	-6.43e-03	-0.07	0.04	1.57e-04	-6.47e-04	0.0
	61	46	-0.53	-0.04	-0.05	-3.75e-04	0.05	1.84e-03
	61	53	-0.01	0.14	-0.43	-2.81e-03	-9.09e-04	-7.29e-
05	61	54	-0.13	-0.15	0.21	1.62e-03	0.01	4.56e-04
	61	78	-0.23	-0.02	-0.07	-5.04e-04	0.02	7.95e-04
	61	85	-0.02	0.06	-0.24	-1.61e-03	1.01e-04	7.47e-06
	61	86	-0.05	-0.07	0.03	2.60e-04	4.27e-03	1.76e-04

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06	62	2	2.03e-03	-0.05	-0.78	5.54e-03	1.49e-03	-4.70e-
	62	7	-7.18e-04	-0.10	-0.49	3.35e-03	2.64e-04	-7.28e-
06	62	22	8.29e-04	5.42e-03	-0.15	1.08e-03	4.70e-04	0.0
	62	23	3.88e-04	-8.58e-03	-0.14	1.00e-03	3.11e-04	0.0
	62	26	1.43e-03	-0.03	-0.53	3.78e-03	1.04e-03	-3.13e-
06	62	27	-2.96e-04	-0.06	-0.36	2.47e-03	2.84e-04	-4.85e-
06	62	35	0.53	0.07	-0.07	5.65e-04	-0.05	1.87e-03
	62	56	-9.30e-03	-0.15	-0.43	2.70e-03	2.05e-03	-1.67e-
04	62	57	0.01	0.16	0.24	-1.30e-03	-1.40e-03	1.67e-04
	62	67	0.24	0.03	-0.07	5.34e-04	-0.02	8.15e-04
	62	88	2.28e-03	-0.06	-0.24	1.62e-03	5.89e-04	-5.46e-
05	62	89	-1.19e-03	0.07	0.05	-2.24e-04	5.81e-05	5.46e-05
06	63	2	2.78e-03	-0.07	-0.08	1.28e-03	1.49e-03	-4.70e-
	63	5	5.97e-04	-0.11	-0.02	1.99e-03	3.61e-04	-7.28e-
06	63	22	8.29e-04	0.0	-0.02	0.0	4.70e-04	0.0
	63	23	5.24e-04	-0.01	-0.02	2.35e-04	3.11e-04	0.0
	63	26	1.92e-03	-0.05	-0.05	8.57e-04	1.04e-03	-3.13e-
06	63	27	4.71e-04	-0.07	-0.01	1.33e-03	2.84e-04	-4.85e-
06	63	40	0.10	-5.40e-03	-0.03	5.72e-04	3.52e-04	9.94e-05
	63	51	0.03	0.16	-0.02	-1.52e-03	3.33e-04	2.44e-04
	63	72	0.05	-7.81e-03	-0.02	1.94e-04	3.35e-04	1.42e-05
	63	83	0.01	0.07	-0.02	-7.00e-04	3.27e-04	9.26e-05
	64	2	3.52e-03	-0.08	-0.27	-2.02e-03	1.49e-03	-4.70e-
06	64	6	2.80e-03	-0.11	0.08	4.48e-04	9.08e-04	-7.28e-
06	64	7	1.58e-03	-0.10	0.31	2.10e-03	2.64e-04	-7.28e-
06	64	22	8.29e-04	-5.42e-03	-0.15	-1.08e-03	4.70e-04	0.0
	64	23	6.60e-04	-0.02	-0.05	-3.57e-04	3.11e-04	0.0
	64	26	2.42e-03	-0.06	-0.19	-1.44e-03	1.04e-03	-3.13e-
06	64	28	1.94e-03	-0.08	0.04	2.05e-04	6.48e-04	-4.85e-
06	64	44	0.53	-0.07	-0.07	-5.65e-04	-0.05	-1.87e-
03	64	51	-9.25e-03	0.15	-0.43	-2.70e-03	2.03e-03	1.67e-04
	64	54	0.01	-0.16	0.24	1.30e-03	-1.39e-03	-1.67e-
04	64	76	0.24	-0.03	-0.07	-5.34e-04	-0.02	-8.15e-
04	64	83	2.28e-03	0.06	-0.24	-1.62e-03	5.88e-04	5.47e-05
	64	86	-1.19e-03	-0.07	0.05	2.24e-04	5.95e-05	-5.47e-
05	65	2	-0.01	-0.05	-0.92	5.82e-03	-6.20e-04	0.0
	65	7	-2.02e-03	-0.10	-0.57	3.80e-03	-1.09e-04	0.0
	65	22	-3.26e-03	5.42e-03	-0.18	1.08e-03	-1.94e-04	0.0
	65	23	-2.21e-03	-8.98e-03	-0.17	1.05e-03	-1.29e-04	0.0
	65	26	-7.19e-03	-0.03	-0.63	3.98e-03	-4.31e-04	0.0
	65	27	-2.10e-03	-0.07	-0.42	2.76e-03	-1.17e-04	0.0
	65	37	-0.59	0.08	-0.12	-8.82e-04	0.05	-2.16e-
03	65	53	-0.29	0.17	0.22	-2.15e-03	0.02	-1.20e-
03	65	54	-0.04	-0.14	-0.52	3.07e-03	5.56e-03	2.17e-05
	65	69	-0.25	0.03	-0.09	1.55e-04	0.02	-8.57e-
04	65	85	-0.10	0.07	0.04	-5.58e-04	8.56e-03	-3.89e-
04	65	86	-0.04	-0.06	-0.30	1.85e-03	3.95e-03	-9.92e-
05	66	2	-0.01	-0.07	-0.17	1.57e-03	-6.20e-04	0.0
	66	5	-2.55e-03	-0.11	-0.04	2.44e-03	-1.49e-04	0.0
	66	22	-3.26e-03	0.0	-0.05	0.0	-1.94e-04	0.0
	66	23	-2.19e-03	-0.01	-0.03	2.88e-04	-1.29e-04	0.0

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04	66	26	-7.13e-03	-0.05	-0.12	1.05e-03	-4.31e-04	0.0
	66	27	-2.00e-03	-0.07	-0.03	1.62e-03	-1.17e-04	0.0
	66	41	-0.10	0.05	-0.04	-8.28e-04	1.17e-05	-2.31e-
05	66	49	-0.10	-2.87e-03	-0.04	2.34e-04	1.17e-05	1.33e-04
	66	52	0.03	-0.16	-0.03	2.00e-03	-1.78e-04	3.52e-04
	66	73	-0.05	0.02	-0.04	-2.72e-04	-6.42e-05	-6.59e-
05	66	81	-0.05	6.47e-03	-0.04	-2.32e-05	-6.42e-05	3.73e-05
	66	84	0.01	-0.07	-0.04	9.01e-04	-1.55e-04	8.88e-05
	67	2	-0.01	-0.09	-0.31	-1.73e-03	-6.20e-04	0.0
	67	6	-6.12e-03	-0.12	0.10	8.93e-04	-3.77e-04	0.0
	67	7	-1.72e-03	-0.11	0.37	2.54e-03	-1.09e-04	0.0
	67	22	-3.26e-03	-5.42e-03	-0.18	-1.08e-03	-1.94e-04	0.0
	67	23	-2.17e-03	-0.02	-0.06	-3.04e-04	-1.29e-04	0.0
	67	26	-7.06e-03	-0.06	-0.22	-1.25e-03	-4.31e-04	0.0
	67	28	-4.38e-03	-0.08	0.05	5.02e-04	-2.69e-04	0.0
	67	46	-0.59	-0.08	-0.12	8.82e-04	0.05	2.16e-03
	67	57	-0.04	0.14	-0.52	-3.07e-03	0.02	-2.28e-
05	67	58	-0.29	-0.17	0.22	2.15e-03	5.52e-03	1.21e-03
	67	78	-0.25	-0.03	-0.09	-1.55e-04	0.02	8.57e-04
	67	89	-0.04	0.06	-0.30	-1.85e-03	8.57e-03	9.91e-05
	67	90	-0.10	-0.07	0.04	5.58e-04	3.94e-03	3.89e-04
	68	2	-8.04e-03	-0.04	-0.64	5.04e-03	-5.56e-04	1.36e-05
	68	7	1.47e-03	-0.09	-0.35	2.59e-03	-9.85e-05	2.11e-05
	68	22	-3.26e-03	5.42e-03	-0.13	1.08e-03	-1.75e-04	0.0
	68	23	-1.79e-03	-7.98e-03	-0.12	9.10e-04	-1.16e-04	2.50e-06
	68	26	-5.66e-03	-0.03	-0.43	3.45e-03	-3.87e-04	9.09e-06
	68	27	2.20e-04	-0.06	-0.26	1.96e-03	-1.06e-04	1.41e-05
	68	37	-0.77	0.08	-0.10	-3.30e-04	0.06	-3.00e-
03	68	54	0.05	-0.10	-0.32	2.10e-03	0.04	4.66e-04
	68	55	-0.20	0.13	0.15	-1.03e-03	-0.02	-1.03e-
03	68	69	-0.28	0.03	-0.07	3.25e-04	0.02	-1.04e-
04	68	86	-0.02	-0.05	-0.20	1.42e-03	0.01	1.80e-05
	68	87	-0.03	0.07	0.03	-1.08e-04	-7.20e-03	-2.09e-
04	69	2	-0.01	-0.06	-8.52e-03	7.91e-04	-5.56e-04	1.36e-05
	69	5	-2.55e-03	-0.10	-2.14e-03	1.22e-03	-1.35e-04	2.11e-05
	69	22	-3.26e-03	0.0	-2.73e-03	0.0	-1.75e-04	0.0
	69	23	-2.19e-03	-0.01	-1.83e-03	1.45e-04	-1.16e-04	2.50e-06
	69	26	-7.10e-03	-0.04	-5.94e-03	5.27e-04	-3.87e-04	9.09e-06
	69	28	-4.47e-03	-0.07	-3.74e-03	8.16e-04	-2.42e-04	1.41e-05
	69	41	-0.10	0.06	-6.25e-03	-5.55e-04	-3.53e-04	3.32e-04
	69	49	-0.10	-0.03	-6.25e-03	2.48e-04	-3.53e-04	-5.11e-
04	69	55	0.03	0.13	-6.20e-04	-1.11e-03	-5.26e-05	-4.97e-
04	69	73	-0.05	0.02	-3.94e-03	-1.83e-04	-2.29e-04	8.99e-05
	69	81	-0.05	-2.30e-03	-3.94e-03	2.45e-05	-2.29e-04	-1.40e-
04	69	87	0.01	0.06	-1.29e-03	-5.40e-04	-8.85e-05	-1.21e-
04	70	2	-0.01	-0.08	-0.28	-2.51e-03	-5.56e-04	1.36e-05
	70	6	-9.58e-03	-0.11	4.25e-03	-3.18e-04	-3.39e-04	2.11e-05
	70	22	-3.26e-03	-5.42e-03	-0.13	-1.08e-03	-1.75e-04	0.0
	70	23	-2.58e-03	-0.01	-0.05	-4.47e-04	-1.16e-04	2.50e-06
	70	26	-8.53e-03	-0.05	-0.20	-1.77e-03	-3.87e-04	9.09e-06
	70	28	-6.69e-03	-0.07	-8.47e-03	-3.05e-04	-2.42e-04	1.41e-05
	70	46	-0.77	-0.08	-0.10	3.30e-04	0.07	3.00e-03
	70	52	-0.20	-0.13	0.15	1.03e-03	0.01	1.03e-03
	70	57	0.05	0.10	-0.32	-2.10e-03	-4.43e-04	-4.67e-
05	70	78	-0.28	-0.03	-0.07	-3.25e-04	0.02	1.04e-03
	70	84	-0.03	-0.07	0.03	1.08e-04	2.14e-03	2.09e-04
	70	89	-0.02	0.05	-0.20	-1.42e-03	2.25e-03	-1.81e-
05	71	2	6.41e-03	-0.04	-0.89	5.68e-03	1.45e-03	3.12e-05
	71	6	8.49e-03	-0.09	-0.81	5.22e-03	8.86e-04	4.83e-05
	71	7	7.83e-03	-0.09	-0.54	3.58e-03	2.59e-04	4.83e-05
	71	22	4.22e-04	5.42e-03	-0.18	1.08e-03	4.59e-04	0.0
	71	23	1.15e-03	-8.13e-03	-0.17	1.03e-03	3.05e-04	5.70e-06

04	71	26	4.31e-03	-0.03	-0.61	3.88e-03	1.01e-03	2.08e-05
	71	27	5.31e-03	-0.06	-0.40	2.62e-03	2.79e-04	3.22e-05
	71	28	5.70e-03	-0.06	-0.55	3.58e-03	6.33e-04	3.22e-05
	71	35	0.68	-0.05	-0.21	-1.09e-03	-0.06	2.60e-03
	71	53	-0.03	0.16	0.20	-8.57e-04	4.57e-03	6.18e-05
	71	56	-0.10	-0.10	-0.44	2.98e-03	8.18e-03	-5.62e-04
	71	67	0.27	-1.45e-03	-0.13	3.99e-05	-0.02	9.69e-04
05	71	85	-0.03	0.08	0.04	-1.69e-04	3.23e-03	-6.20e-04
04	71	88	-0.01	-0.05	-0.27	1.79e-03	1.80e-03	-1.17e-03
04	72	2	1.49e-03	-0.07	-0.17	1.43e-03	1.45e-03	3.12e-05
	72	6	8.65e-04	-0.10	-0.10	2.21e-03	8.86e-04	4.83e-05
	72	22	4.22e-04	0.0	-0.05	0.0	4.59e-04	0.0
	72	23	2.54e-04	-0.01	-0.03	2.62e-04	3.05e-04	5.70e-06
	72	26	1.03e-03	-0.04	-0.12	9.53e-04	1.01e-03	2.08e-05
	72	28	6.13e-04	-0.07	-0.07	1.48e-03	6.33e-04	3.22e-05
	72	40	0.10	-0.11	-0.04	-6.30e-04	1.68e-04	2.65e-04
04	72	48	0.10	0.07	-0.04	1.06e-03	1.68e-04	-3.72e-04
04	72	55	0.03	0.16	-0.04	-1.07e-03	2.71e-04	3.13e-04
	72	72	0.05	-0.03	-0.04	-1.44e-04	2.45e-04	7.91e-05
	72	80	0.05	0.02	-0.04	3.64e-04	2.45e-04	-1.13e-03
03	72	87	0.01	0.07	-0.04	-6.26e-04	2.96e-04	8.18e-05
	73	2	-3.43e-03	-0.08	-0.33	-1.87e-03	1.45e-03	3.12e-05
	73	6	-6.76e-03	-0.11	0.06	6.72e-04	8.86e-04	4.83e-05
	73	7	-7.42e-03	-0.10	0.33	2.32e-03	2.59e-04	4.83e-05
	73	22	4.22e-04	-5.42e-03	-0.18	-1.08e-03	4.59e-04	0.0
	73	23	-6.47e-04	-0.01	-0.06	-3.30e-04	3.05e-04	5.70e-06
	73	26	-2.25e-03	-0.06	-0.24	-1.34e-03	1.01e-03	2.08e-05
	73	27	-4.86e-03	-0.07	0.18	1.31e-03	2.79e-04	3.22e-05
	73	28	-4.47e-03	-0.07	0.03	3.55e-04	6.33e-04	3.22e-05
	73	44	0.68	0.05	-0.21	1.09e-03	-0.05	-2.60e-03
	73	51	-0.10	0.10	-0.44	-2.98e-03	-0.02	5.62e-04
05	73	58	-0.03	-0.16	0.20	8.56e-04	0.03	-6.17e-03
04	73	76	0.27	1.45e-03	-0.13	-3.99e-05	-0.02	-9.69e-04
03	73	83	-0.01	0.05	-0.27	-1.79e-03	-6.05e-03	1.17e-04
	73	90	-0.03	-0.08	0.04	1.68e-04	0.01	6.20e-05
	74	2	-0.01	-0.04	-0.88	5.59e-03	-1.48e-03	4.09e-05
	74	7	7.02e-03	-0.09	-0.52	3.44e-03	-2.61e-04	6.34e-05
	74	22	-5.25e-03	5.42e-03	-0.18	1.08e-03	-4.64e-04	0.0
	74	23	-2.33e-03	-7.15e-03	-0.16	1.01e-03	-3.08e-04	7.49e-06
	74	26	-7.17e-03	-0.03	-0.60	3.82e-03	-1.03e-03	2.73e-05
	74	27	3.46e-03	-0.06	-0.38	2.53e-03	-2.81e-04	4.22e-05
	74	37	-0.46	0.13	-0.23	1.41e-03	0.04	-1.68e-03
04	74	54	0.06	-0.08	-0.42	2.86e-03	-2.74e-03	5.20e-04
	74	55	-0.10	0.14	0.18	-7.31e-04	6.94e-03	-6.41e-03
04	74	69	-0.23	0.05	-0.14	8.42e-04	0.02	-7.94e-03
04	74	86	9.25e-03	-0.04	-0.26	1.70e-03	-2.36e-04	1.67e-04
	74	87	-0.04	0.07	0.02	-6.58e-05	2.19e-03	-2.55e-03
04	75	2	-0.02	-0.06	-0.17	1.34e-03	-1.48e-03	4.09e-05
	75	6	-0.01	-0.09	-0.10	2.08e-03	-8.98e-04	6.34e-05
	75	22	-5.25e-03	0.0	-0.05	0.0	-4.64e-04	0.0
	75	23	-3.51e-03	-0.01	-0.03	2.46e-04	-3.08e-04	7.49e-06
	75	26	-0.01	-0.04	-0.12	8.96e-04	-1.03e-03	2.73e-05
	75	28	-7.21e-03	-0.06	-0.07	1.39e-03	-6.41e-04	4.22e-05
	75	41	-0.10	0.11	-0.05	6.75e-04	-2.55e-04	-4.30e-03
04	75	50	-0.10	-0.11	-0.05	-6.75e-04	-2.57e-04	4.30e-04
	75	52	0.03	-0.14	-0.03	9.16e-04	-3.41e-04	6.65e-04
	75	73	-0.05	0.03	-0.04	1.80e-04	-2.93e-04	-1.49e-03
05	75	74	-0.05	0.02	-0.04	3.70e-04	-2.94e-04	-8.92e-03
04	75	87	0.01	0.06	-0.03	-5.33e-04	-3.28e-04	-2.60e-03

	76	2	-0.02	-0.08	-0.35	-1.96e-03	-1.48e-03 4.09e-05
	76	6	-0.02	-0.10	0.04	5.39e-04	-8.98e-04 6.34e-05
	76	22	-5.25e-03	-5.42e-03	-0.18	-1.08e-03	-4.64e-04 0.0
	76	23	-4.70e-03	-0.01	-0.07	-3.46e-04	-3.08e-04 7.49e-06
	76	26	-0.02	-0.05	-0.25	-1.40e-03	-1.03e-03 2.73e-05
	76	28	-0.01	-0.07	0.01	2.66e-04	-6.41e-04 4.22e-05
	76	46	-0.46	-0.13	-0.23	-1.41e-03	0.04 1.68e-03
	76	52	-0.10	-0.14	0.18	7.31e-04	6.92e-03 6.41e-04
	76	57	0.06	0.08	-0.42	-2.86e-03	-2.72e-03 -5.20e-
04	76	78	-0.23	-0.05	-0.14	-8.42e-04	0.02 7.94e-04
	76	84	-0.04	-0.07	0.02	6.58e-05	2.19e-03 2.55e-04
	76	89	9.25e-03	0.04	-0.26	-1.70e-03	-2.35e-04 -1.67e-
04	77	2	-3.85e-03	-0.03	-0.60	4.94e-03	-4.53e-04 4.30e-05
	77	7	8.46e-03	-0.07	-0.33	2.43e-03	-9.75e-05 6.67e-05
	77	22	-3.50e-03	5.42e-03	-0.12	1.08e-03	-1.56e-04 0.0
	77	26	-2.90e-03	-0.02	-0.41	3.39e-03	-3.17e-04 2.87e-05
	77	27	4.81e-03	-0.05	-0.24	1.86e-03	-1.03e-04 4.44e-05
	77	37	-0.63	-0.04	0.07	1.11e-03	0.05 -2.72e-
03	77	51	-0.29	0.11	0.06	-7.85e-04	0.02 -1.59e-
03	77	56	0.56	-0.10	-0.28	2.19e-03	-0.04 2.75e-03
	77	69	-0.27	-0.01	-0.02	8.15e-04	0.02 -1.09e-
03	77	83	-0.09	0.05	-0.01	5.18e-05	4.78e-03 -5.18e-
04	77	88	0.20	-0.04	-0.17	1.35e-03	-0.01 9.65e-04
	78	2	-0.01	-0.05	0.01	6.93e-04	-4.53e-04 4.30e-05
	78	6	-6.61e-03	-0.08	8.31e-03	1.07e-03	-2.87e-04 6.67e-05
	78	22	-3.50e-03	0.0	4.47e-03	0.0	-1.56e-04 0.0
	78	23	-2.40e-03	-9.24e-03	3.14e-03	1.27e-04	-1.11e-04 7.88e-06
	78	26	-7.43e-03	-0.03	9.25e-03	4.62e-04	-3.17e-04 2.87e-05
	78	28	-4.74e-03	-0.05	5.97e-03	7.16e-04	-2.07e-04 4.44e-05
	78	41	-0.10	-0.06	0.02	4.30e-04	-5.78e-04 -9.72e-
04	78	42	-0.10	-0.08	0.02	6.45e-04	-5.83e-04 -7.03e-
04	78	56	0.03	-0.11	-8.99e-04	8.70e-04	2.36e-05 9.68e-04
	78	73	-0.05	-0.02	9.91e-03	1.45e-04	-3.37e-04 -3.56e-
04	78	82	-0.05	0.02	9.94e-03	-1.45e-04	-3.38e-04 3.56e-04
	78	88	0.01	-0.05	1.25e-03	4.02e-04	-4.79e-05 3.50e-04
	79	2	-0.02	-0.07	-0.27	-2.61e-03	-4.53e-04 4.30e-05
	79	6	-0.02	-0.09	-6.02e-03	-4.68e-04	-2.87e-04 6.67e-05
	79	22	-3.50e-03	-5.42e-03	-0.12	-1.08e-03	-1.56e-04 0.0
	79	23	-3.64e-03	-0.01	-0.05	-4.65e-04	-1.11e-04 7.88e-06
	79	26	-0.01	-0.05	-0.19	-1.83e-03	-3.17e-04 2.87e-05
	79	28	-0.01	-0.06	-0.01	-4.05e-04	-2.07e-04 4.44e-05
	79	46	-0.63	0.04	0.07	-1.11e-03	0.03 2.72e-03
	79	51	0.56	0.10	-0.28	-2.19e-03	0.02 -2.75e-
03	79	56	-0.29	-0.11	0.06	7.85e-04	-0.04 1.59e-03
	79	78	-0.27	0.01	-0.02	-8.15e-04	0.01 1.09e-03
	79	83	0.20	0.04	-0.17	-1.35e-03	6.55e-03 -9.65e-
04	79	88	-0.09	-0.05	-0.01	-5.18e-05	-0.02 5.18e-04
	80	2	-2.10e-03	-0.06	-0.01	7.63e-04	-6.40e-04 2.01e-06
	80	5	-5.13e-04	-0.09	-2.56e-03	1.18e-03	-1.57e-04 3.11e-06
	80	22	-6.63e-04	0.0	-3.28e-03	0.0	-2.03e-04 0.0
	80	23	-4.41e-04	-0.01	-2.20e-03	1.40e-04	-1.35e-04 0.0
	80	26	-1.46e-03	-0.04	-7.16e-03	5.09e-04	-4.45e-04 1.34e-06
	80	27	-4.03e-04	-0.06	-2.01e-03	7.88e-04	-1.23e-04 2.08e-06
	80	41	-0.10	0.03	-8.55e-03	-2.13e-04	-4.38e-04 -4.38e-
04	80	63	0.03	0.07	-7.15e-04	-6.23e-04	-7.25e-05 -2.20e-
04	80	73	-0.05	0.01	-5.26e-03	-1.01e-04	-2.81e-04 -1.26e-
04	80	95	0.01	0.04	-1.44e-03	-3.20e-04	-1.01e-04 -6.71e-
05	81	2	-1.78e-03	-0.04	-0.63	5.01e-03	-6.40e-04 2.01e-06
	81	7	1.17e-04	-0.08	-0.35	2.54e-03	-1.15e-04 3.11e-06
	81	22	-6.63e-04	5.42e-03	-0.13	1.08e-03	-2.03e-04 0.0

LUMINORA LA FEUDALE SRL			green & green WE ENGINEERING			CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture		
Powertis						PAGE 126 di/of 308		
03	81	23	-3.83e-04	-6.90e-03	-0.11	9.05e-04	-1.35e-04	0.0
	81	26	-1.25e-03	-0.02	-0.43	3.44e-03	-4.45e-04	1.34e-06
	81	27	-7.49e-05	-0.05	-0.26	1.93e-03	-1.23e-04	2.08e-06
	81	41	-0.45	0.03	-0.06	2.37e-04	0.04	-1.63e-
04	81	62	-0.09	-0.06	-0.23	1.71e-03	0.02	-2.64e-
	81	63	0.04	0.07	0.06	-4.02e-04	-0.01	9.57e-05
04	81	73	-0.22	0.02	-0.07	5.00e-04	0.02	-7.65e-
	81	93	-0.08	0.04	-0.02	1.62e-04	4.35e-03	-2.82e-
04	81	94	-0.05	-0.03	-0.16	1.21e-03	6.50e-03	-1.67e-
	82	2	8.99e-03	-0.04	-0.88	5.59e-03	1.48e-03	-4.09e-
05	82	7	-7.20e-03	-0.09	-0.52	3.44e-03	2.61e-04	-6.34e-
	82	22	4.93e-03	5.42e-03	-0.18	1.08e-03	4.65e-04	0.0
06	82	23	2.12e-03	-7.15e-03	-0.16	1.01e-03	3.08e-04	-7.49e-
	82	26	6.45e-03	-0.03	-0.60	3.82e-03	1.03e-03	-2.73e-
05	82	27	-3.66e-03	-0.06	-0.38	2.53e-03	2.81e-04	-4.22e-
	82	39	0.47	0.13	-0.24	1.43e-03	-0.03	1.69e-03
04	82	60	-0.06	-0.08	-0.42	2.82e-03	-0.02	-5.18e-
	82	65	0.10	0.14	0.17	-6.85e-04	0.02	6.40e-04
04	82	71	0.23	0.05	-0.14	8.44e-04	-0.02	7.97e-04
	82	92	-9.20e-03	-0.04	-0.26	1.70e-03	-0.01	-1.66e-
04	82	97	0.04	0.07	0.02	-6.45e-05	8.21e-03	2.55e-04
	83	2	-2.42e-03	-0.08	-0.28	-2.54e-03	-6.40e-04	2.01e-06
04	83	6	-1.77e-03	-0.10	-3.58e-03	-3.60e-04	-3.90e-04	3.11e-06
	83	22	-6.63e-04	-5.42e-03	-0.13	-1.08e-03	-2.03e-04	0.0
04	83	23	-4.99e-04	-0.01	-0.05	-4.52e-04	-1.35e-04	0.0
	83	26	-1.67e-03	-0.05	-0.20	-1.79e-03	-4.45e-04	1.34e-06
04	83	28	-1.24e-03	-0.07	-0.01	-3.34e-04	-2.79e-04	2.08e-06
	83	46	-0.45	-0.03	-0.06	-2.38e-04	0.04	1.63e-03
04	83	60	0.05	-0.07	0.06	4.01e-04	-3.30e-03	-1.11e-
	83	65	-0.09	0.06	-0.23	-1.71e-03	8.18e-03	2.80e-04
04	83	82	-0.22	-0.02	-0.07	-5.00e-04	0.02	7.64e-04
	83	97	-0.05	0.03	-0.16	-1.21e-03	4.49e-03	1.68e-04
04	83	98	-0.08	-0.04	-0.02	-1.62e-04	6.36e-03	2.80e-04
	84	2	-1.47e-03	-0.06	-0.17	1.54e-03	-5.84e-04	1.47e-05
04	84	5	-3.37e-04	-0.10	-0.04	2.39e-03	-1.40e-04	2.27e-05
	84	22	-4.51e-04	0.0	-0.05	0.0	-1.83e-04	0.0
04	84	23	-2.93e-04	-0.01	-0.04	2.83e-04	-1.21e-04	2.68e-06
	84	26	-1.02e-03	-0.04	-0.12	1.03e-03	-4.06e-04	9.77e-06
04	84	27	-2.66e-04	-0.07	-0.03	1.59e-03	-1.10e-04	1.51e-05
	84	41	-0.10	0.07	-0.05	-5.76e-04	3.01e-05	-1.39e-
04	84	55	0.03	0.09	-0.04	-1.27e-03	-1.75e-04	-1.75e-
	84	73	-0.05	0.02	-0.04	-2.27e-04	-5.03e-05	-4.42e-
05	84	95	0.01	0.05	-0.04	-6.30e-04	-1.51e-04	-7.10e-
	85	2	0.02	-0.08	-0.35	-1.96e-03	1.48e-03	-4.09e-
05	85	6	0.02	-0.10	0.04	5.39e-04	8.98e-04	-6.34e-
	85	22	4.93e-03	-5.42e-03	-0.18	-1.08e-03	4.65e-04	0.0
06	85	23	4.48e-03	-0.01	-0.07	-3.46e-04	3.08e-04	-7.49e-
	85	26	0.02	-0.05	-0.25	-1.40e-03	1.03e-03	-2.73e-
05	85	28	0.01	-0.07	0.01	2.66e-04	6.41e-04	-4.22e-
	85	48	0.47	-0.13	-0.24	-1.43e-03	-0.04	-1.69e-
03	85	62	0.10	-0.14	0.17	6.88e-04	-6.94e-03	-6.42e-
	04							

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04	85	63	-0.06	0.08	-0.42	-2.83e-03	2.70e-03	5.20e-04
	85	80	0.23	-0.05	-0.14	-8.44e-04	-0.02	-7.97e-
04	85	94	0.04	-0.07	0.02	6.43e-05	-2.17e-03	-2.55e-
	85	95	-9.21e-03	0.04	-0.26	-1.70e-03	1.96e-04	1.66e-04
05	86	2	9.60e-03	-0.05	0.01	6.93e-04	4.48e-04	-4.30e-
	86	5	2.56e-03	-0.08	3.68e-03	1.07e-03	1.31e-04	-6.67e-
06	86	22	3.16e-03	0.0	4.42e-03	0.0	1.54e-04	0.0
	86	23	2.18e-03	-9.24e-03	3.11e-03	1.27e-04	1.10e-04	-7.88e-
05	86	26	6.70e-03	-0.03	9.15e-03	4.62e-04	3.14e-04	-2.87e-
	86	27	2.01e-03	-0.05	2.88e-03	7.16e-04	1.02e-04	-4.44e-
04	86	40	0.10	-0.09	0.02	7.54e-04	5.86e-04	4.76e-04
	86	60	0.03	-0.10	7.73e-03	8.69e-04	2.66e-04	-9.63e-
04	86	72	0.05	-0.04	9.95e-03	2.98e-04	3.38e-04	1.71e-04
	86	92	0.02	-0.05	5.28e-03	4.02e-04	1.83e-04	-3.49e-
05	87	2	2.80e-03	-0.03	-0.60	4.94e-03	4.48e-04	-4.30e-
	87	7	-8.65e-03	-0.07	-0.33	2.43e-03	9.66e-05	-6.67e-
05	87	22	3.16e-03	5.42e-03	-0.12	1.08e-03	1.54e-04	0.0
	87	26	2.17e-03	-0.02	-0.41	3.39e-03	3.14e-04	-2.87e-
05	87	27	-5.01e-03	-0.05	-0.24	1.86e-03	1.02e-04	-4.44e-
	87	39	0.63	-0.04	0.07	1.12e-03	-0.05	2.73e-03
03	87	61	0.29	0.11	0.06	-7.85e-04	-0.02	1.59e-03
	87	66	-0.56	-0.10	-0.28	2.19e-03	0.04	-2.75e-
04	87	71	0.27	-0.01	-0.02	8.16e-04	-0.02	1.09e-03
	87	93	0.09	0.05	-0.01	5.24e-05	-4.74e-03	5.17e-04
04	87	98	-0.20	-0.04	-0.17	1.35e-03	0.01	-9.66e-
	88	2	8.47e-04	-0.04	-0.92	5.79e-03	-5.84e-04	1.47e-05
03	88	7	3.34e-03	-0.09	-0.57	3.75e-03	-1.02e-04	2.27e-05
	88	22	-4.51e-04	5.42e-03	-0.18	1.08e-03	-1.83e-04	0.0
04	88	23	1.31e-04	-7.98e-03	-0.17	1.05e-03	-1.21e-04	2.68e-06
	88	26	5.24e-04	-0.03	-0.63	3.96e-03	-4.06e-04	9.77e-06
05	88	27	2.13e-03	-0.06	-0.42	2.73e-03	-1.10e-04	1.51e-05
	88	37	-0.45	0.07	-0.10	-1.89e-04	0.04	-1.54e-
05	88	55	6.82e-03	0.10	0.14	-1.17e-03	-0.01	-8.85e-
	88	62	-0.07	-0.06	-0.39	2.43e-03	0.02	-1.54e-
04	88	73	-0.22	0.03	-0.09	3.54e-04	0.02	-7.61e-
	88	93	-0.09	0.05	3.03e-03	-2.18e-04	3.80e-03	-3.36e-
05	88	94	-0.04	-0.04	-0.25	1.57e-03	7.78e-03	-9.91e-
	89	2	0.02	-0.07	-0.27	-2.61e-03	4.48e-04	-4.30e-
05	89	6	0.02	-0.09	-6.11e-03	-4.68e-04	2.84e-04	-6.67e-
	89	22	3.16e-03	-5.42e-03	-0.12	-1.08e-03	1.54e-04	0.0
06	89	23	3.42e-03	-0.01	-0.05	-4.65e-04	1.10e-04	-7.88e-
	89	26	0.01	-0.05	-0.19	-1.83e-03	3.14e-04	-2.87e-
05	89	28	0.01	-0.06	-0.01	-4.05e-04	2.04e-04	-4.44e-
	89	48	0.63	0.04	0.07	-1.12e-03	-0.03	-2.73e-
03	89	61	-0.56	0.10	-0.28	-2.19e-03	-0.02	2.75e-03
	89	66	0.29	-0.11	0.06	7.89e-04	0.04	-1.59e-
03	89	80	0.27	0.01	-0.02	-8.16e-04	-0.01	-1.09e-

03	89	93	-0.20	0.04	-0.17	-1.35e-03	-6.52e-03 9.66e-04
	89	98	0.09	-0.05	-0.01	-5.22e-05	0.02 -5.17e-
04	90	6	-4.47e-03	-0.11	0.09	8.49e-04	-3.54e-04 2.27e-05
	90	7	-3.83e-03	-0.10	0.36	2.50e-03	-1.02e-04 2.27e-05
	90	22	-4.51e-04	-5.42e-03	-0.18	-1.08e-03	-1.83e-04 0.0
	90	23	-7.17e-04	-0.01	-0.06	-3.10e-04	-1.21e-04 2.68e-06
	90	26	-2.56e-03	-0.05	-0.23	-1.27e-03	-4.06e-04 9.77e-06
	90	28	-3.02e-03	-0.07	0.04	4.73e-04	-2.53e-04 1.51e-05
	90	46	-0.45	-0.07	-0.10	1.89e-04	0.04 1.54e-03
	90	52	6.79e-03	-0.10	0.14	1.17e-03	6.18e-04 8.84e-05
	90	65	-0.07	0.06	-0.38	-2.36e-03	6.97e-03 1.53e-04
	90	82	-0.22	-0.03	-0.09	-3.55e-04	0.02 7.61e-04
	90	97	-0.04	0.04	-0.25	-1.57e-03	3.80e-03 9.91e-05
	90	98	-0.09	-0.05	2.66e-03	2.14e-04	7.78e-03 3.36e-04
	91	2	0.01	-0.06	-0.07	1.26e-03	1.50e-03 1.69e-05
	91	5	2.76e-03	-0.10	-0.02	1.94e-03	3.64e-04 2.62e-05
	91	22	3.58e-03	0.0	-0.02	0.0	4.73e-04 0.0
	91	23	2.38e-03	-0.01	-0.02	2.30e-04	3.14e-04 3.10e-06
	91	26	7.89e-03	-0.04	-0.05	8.37e-04	1.05e-03 1.13e-05
	91	27	2.17e-03	-0.07	-0.01	1.30e-03	2.86e-04 1.75e-05
	91	40	0.10	-0.06	-0.03	5.18e-04	3.05e-04 -2.99e-
04	91	47	0.10	0.06	-0.03	-5.18e-04	3.25e-04 2.99e-04
	91	55	0.03	0.10	-0.02	-1.09e-03	3.27e-04 2.67e-04
	91	72	0.05	-0.02	-0.02	2.06e-04	3.22e-04 -7.47e-
05	91	79	0.05	0.02	-0.02	-2.06e-04	3.25e-04 7.47e-05
	91	95	0.02	0.05	-0.02	-5.44e-04	3.31e-04 8.99e-05
	92	2	0.01	-0.04	-0.78	5.51e-03	1.50e-03 1.69e-05
	92	7	6.17e-03	-0.09	-0.48	3.30e-03	2.66e-04 2.62e-05
	92	22	3.58e-03	5.42e-03	-0.15	1.08e-03	4.73e-04 0.0
	92	23	2.87e-03	-8.07e-03	-0.14	9.95e-04	3.14e-04 3.10e-06
	92	26	9.68e-03	-0.03	-0.53	3.76e-03	1.05e-03 1.13e-05
	92	27	4.94e-03	-0.06	-0.35	2.44e-03	2.86e-04 1.75e-05
	92	39	0.61	-4.79e-03	-0.09	6.65e-04	-0.05 2.22e-03
	92	53	-0.07	0.10	0.12	-8.67e-04	0.02 -1.49e-
04	92	56	-0.04	-0.07	-0.32	2.03e-03	-0.01 -2.80e-
04	92	71	0.25	8.34e-03	-0.08	5.77e-04	-0.02 8.83e-04
	92	95	0.07	0.05	1.47e-03	-6.19e-05	9.24e-04 2.56e-04
	92	96	-7.64e-04	-0.04	-0.21	1.40e-03	-5.22e-03 -7.44e-
05	93	2	8.67e-03	-0.08	-0.27	-2.05e-03	1.50e-03 1.69e-05
	93	6	2.77e-03	-0.11	0.08	4.02e-04	9.15e-04 2.62e-05
	93	7	-2.12e-03	-0.10	0.31	2.05e-03	2.66e-04 2.62e-05
	93	22	3.58e-03	-5.42e-03	-0.15	-1.08e-03	4.73e-04 0.0
	93	23	1.89e-03	-0.01	-0.05	-3.62e-04	3.14e-04 3.10e-06
	93	26	6.11e-03	-0.05	-0.19	-1.46e-03	1.05e-03 1.13e-05
	93	28	2.17e-03	-0.07	0.04	1.75e-04	6.53e-04 1.75e-05
	93	48	0.61	4.81e-03	-0.09	-6.66e-04	-0.05 -2.22e-
03	93	51	-0.03	0.07	-0.32	-2.03e-03	3.87e-03 2.79e-04
	93	58	-0.07	-0.10	0.12	8.67e-04	7.63e-03 1.50e-04
	93	80	0.25	-8.34e-03	-0.08	-5.77e-04	-0.02 -8.83e-
04	93	91	-7.27e-04	0.04	-0.21	-1.40e-03	9.27e-04 7.42e-05
	93	92	0.07	-0.05	1.45e-03	6.18e-05	-5.23e-03 -2.56e-
04	94	2	-6.34e-03	-0.07	-0.07	1.24e-03	-1.49e-03 1.04e-05
	94	5	-1.51e-03	-0.10	-0.02	1.93e-03	-3.62e-04 1.62e-05
	94	22	-1.98e-03	0.0	-0.02	0.0	-4.70e-04 0.0
	94	23	-1.31e-03	-0.01	-0.01	2.28e-04	-3.12e-04 1.91e-06
	94	26	-4.41e-03	-0.04	-0.05	8.29e-04	-1.04e-03 6.95e-06
	94	27	-1.19e-03	-0.07	-0.01	1.28e-03	-2.84e-04 1.08e-05
	94	41	-0.10	0.04	-0.03	-5.32e-04	-3.59e-04 -2.86e-
04	94	42	-0.10	-0.02	-0.03	1.75e-04	-3.63e-04 -8.37e-
05	94	63	0.03	0.11	-0.01	-1.23e-03	-3.05e-04 -3.93e-
04	94	73	-0.05	0.02	-0.02	-2.16e-04	-3.40e-04 -7.53e-
05							

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05	94	74	-0.05	-0.01	-0.02	1.28e-04	-3.41e-04	-1.01e-
	94	92	0.01	-0.05	-0.01	5.86e-04	-3.21e-04	1.22e-04
	95	2	-4.70e-03	-0.05	-0.77	5.49e-03	-1.49e-03	1.04e-05
	95	7	1.45e-03	-0.10	-0.48	3.29e-03	-2.64e-04	1.62e-05
	95	22	-1.98e-03	5.42e-03	-0.15	1.08e-03	-4.70e-04	0.0
	95	23	-1.01e-03	-8.39e-03	-0.14	9.93e-04	-3.12e-04	1.91e-06
	95	26	-3.31e-03	-0.03	-0.52	3.76e-03	-1.04e-03	6.95e-06
	95	27	5.12e-04	-0.06	-0.35	2.42e-03	-2.84e-04	1.08e-05
03	95	41	-0.60	0.05	-0.08	-1.40e-04	0.05	-2.20e-
	95	62	-0.02	-0.10	-0.35	2.22e-03	3.01e-03	1.29e-04
04	95	63	-0.09	0.11	0.15	-1.03e-03	6.66e-03	-5.40e-
	95	73	-0.25	0.02	-0.08	3.67e-04	0.02	-8.83e-
04	95	93	-0.11	0.06	0.01	-1.14e-04	9.63e-03	-4.51e-
	95	94	-0.03	-0.05	-0.21	1.45e-03	2.82e-03	-4.17e-
05	96	2	-7.99e-03	-0.08	-0.26	-2.06e-03	-1.49e-03	1.04e-05
	96	6	-6.40e-03	-0.11	0.08	3.84e-04	-9.09e-04	1.62e-05
	96	7	-3.66e-03	-0.10	0.30	2.03e-03	-2.64e-04	1.62e-05
	96	22	-1.98e-03	-5.42e-03	-0.15	-1.08e-03	-4.70e-04	0.0
	96	23	-1.61e-03	-0.02	-0.05	-3.64e-04	-3.12e-04	1.91e-06
	96	26	-5.51e-03	-0.06	-0.19	-1.47e-03	-1.04e-03	6.95e-06
	96	28	-4.45e-03	-0.07	0.04	1.63e-04	-6.49e-04	1.08e-05
	96	50	-0.60	-0.05	-0.08	1.39e-04	0.05	2.20e-03
	96	60	-0.09	-0.11	0.15	1.03e-03	-0.02	5.39e-04
	96	65	-0.02	0.10	-0.35	-2.22e-03	0.03	-1.27e-
04	96	82	-0.25	-0.02	-0.08	-3.67e-04	0.02	8.83e-04
	96	97	-0.03	0.05	-0.21	-1.45e-03	9.62e-03	4.19e-05
	96	98	-0.11	-0.06	0.01	1.13e-04	2.83e-03	4.51e-04
	97	2	5.84e-03	-0.07	-0.17	1.59e-03	4.85e-04	4.79e-06
	97	5	1.43e-03	-0.11	-0.04	2.47e-03	1.16e-04	7.42e-06
	97	22	1.85e-03	0.0	-0.05	0.0	1.52e-04	0.0
	97	23	1.23e-03	-0.01	-0.04	2.92e-04	1.01e-04	0.0
	97	26	4.06e-03	-0.05	-0.12	1.06e-03	3.37e-04	3.19e-06
	97	27	1.13e-03	-0.07	-0.03	1.65e-03	9.16e-05	4.95e-06
	97	40	0.10	-0.03	-0.04	6.44e-04	-4.49e-05	3.38e-05
	97	59	0.03	0.13	-0.04	-1.55e-03	5.38e-05	1.30e-04
	97	72	0.05	-0.02	-0.04	2.65e-04	3.29e-05	1.05e-05
	97	91	0.02	0.06	-0.04	-7.45e-04	8.19e-05	4.42e-05
	98	2	6.59e-03	-0.05	-0.93	5.84e-03	4.85e-04	4.79e-06
	98	7	2.22e-03	-0.10	-0.58	3.83e-03	8.51e-05	7.42e-06
	98	22	1.85e-03	5.42e-03	-0.18	1.08e-03	1.52e-04	0.0
	98	23	1.37e-03	-8.96e-03	-0.17	1.06e-03	1.01e-04	0.0
	98	26	4.57e-03	-0.03	-0.63	3.99e-03	3.37e-04	3.19e-06
	98	27	1.91e-03	-0.07	-0.43	2.79e-03	9.16e-05	4.95e-06
	98	39	0.51	0.05	-0.06	2.59e-04	-0.05	1.76e-03
	98	59	0.19	0.13	0.19	-1.50e-03	-0.02	7.15e-04
	98	64	0.02	-0.13	-0.45	2.90e-03	-4.31e-04	-2.44e-
05	98	71	0.23	0.02	-0.08	4.36e-04	-0.02	7.92e-04
	98	91	0.08	0.06	0.03	-3.51e-04	-7.53e-03	2.87e-04
	98	96	0.02	-0.06	-0.27	1.75e-03	-1.01e-03	3.61e-05
	99	2	5.08e-03	-0.09	-0.31	-1.71e-03	4.85e-04	4.79e-06
	99	6	2.39e-03	-0.12	0.10	9.26e-04	2.95e-04	7.42e-06
	99	7	-1.22e-04	-0.11	0.37	2.57e-03	8.51e-05	7.42e-06
	99	22	1.85e-03	-5.42e-03	-0.18	-1.08e-03	1.52e-04	0.0
	99	23	1.10e-03	-0.02	-0.06	-3.01e-04	1.01e-04	0.0
	99	26	3.56e-03	-0.06	-0.23	-1.23e-03	3.37e-04	3.19e-06
	99	28	1.76e-03	-0.08	0.05	5.24e-04	2.10e-04	4.95e-06
	99	48	0.51	-0.05	-0.06	-2.60e-04	-0.05	-1.76e-
03	99	59	0.02	0.13	-0.45	-2.90e-03	-8.58e-04	1.41e-05
	99	64	0.19	-0.13	0.19	1.50e-03	-0.02	-7.05e-
04	99	80	0.23	-0.02	-0.08	-4.36e-04	-0.02	-7.92e-
	99	91	0.02	0.06	-0.27	-1.75e-03	-1.08e-03	-3.75e-
05	99	96	0.08	-0.06	0.03	3.50e-04	-7.46e-03	-2.86e-
	99	96	0.08	-0.06	0.03	3.50e-04	-7.46e-03	-2.86e-

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	100	2	8.00e-03	-0.07	-0.01	8.73e-04	7.96e-04	1.68e-06
	100	5	1.98e-03	-0.10	-3.45e-03	1.35e-03	1.94e-04	2.60e-06
	100	22	2.54e-03	0.0	-4.43e-03	0.0	2.51e-04	0.0
	100	23	1.70e-03	-0.01	-2.96e-03	1.60e-04	1.67e-04	0.0
	100	26	5.57e-03	-0.04	-9.69e-03	5.82e-04	5.54e-04	1.12e-06
	100	27	1.55e-03	-0.07	-2.71e-03	9.02e-04	1.52e-04	1.74e-06
	100	40	0.10	-0.03	-8.99e-03	3.86e-04	3.88e-04	0.0
	100	59	0.03	0.12	-4.74e-03	-1.03e-03	2.33e-04	2.10e-04
	100	72	0.05	-0.01	-5.90e-03	1.56e-04	2.76e-04	2.70e-06
	100	91	0.02	0.05	-3.91e-03	-4.80e-04	2.03e-04	6.53e-05
	101	2	8.27e-03	-0.04	-0.65	5.12e-03	7.96e-04	1.68e-06
	101	7	1.86e-03	-0.10	-0.37	2.71e-03	1.42e-04	2.60e-06
	101	22	2.54e-03	5.42e-03	-0.13	1.08e-03	2.51e-04	0.0
	101	23	1.75e-03	-8.24e-03	-0.12	9.25e-04	1.67e-04	0.0
	101	26	5.75e-03	-0.03	-0.45	3.51e-03	5.54e-04	1.12e-06
	101	27	1.83e-03	-0.06	-0.28	2.04e-03	1.52e-04	1.74e-06
	101	39	0.50	0.05	-0.04	3.90e-04	-0.05	1.73e-03
	101	59	0.21	0.12	0.13	-8.67e-04	-0.02	8.00e-04
	101	60	0.08	-0.11	-0.32	2.37e-03	-6.71e-03	1.81e-04
	101	67	0.23	0.02	-0.07	5.54e-04	-0.02	7.94e-04
	101	91	0.08	0.06	0.01	-2.01e-05	-7.87e-03	2.93e-04
	101	92	0.06	-0.05	-0.19	1.45e-03	-4.13e-03	1.69e-04
	102	2	7.74e-03	-0.08	-0.27	-2.43e-03	7.96e-04	1.68e-06
	102	6	4.48e-03	-0.11	0.02	-1.89e-04	4.85e-04	2.60e-06
	102	22	2.54e-03	-5.42e-03	-0.13	-1.08e-03	2.51e-04	0.0
	102	23	1.65e-03	-0.02	-0.05	-4.32e-04	1.67e-04	0.0
	102	26	5.39e-03	-0.06	-0.19	-1.71e-03	5.54e-04	1.12e-06
	102	28	3.22e-03	-0.07	2.70e-03	-2.19e-04	3.46e-04	1.74e-06
	102	48	0.50	-0.05	-0.04	-3.89e-04	-0.04	-1.73e-
03								
	102	63	0.08	0.11	-0.32	-2.38e-03	-0.02	-1.82e-
04								
	102	64	0.21	-0.12	0.13	8.72e-04	-6.59e-03	-7.99e-
04								
	102	76	0.23	-0.02	-0.07	-5.54e-04	-0.02	-7.94e-
04								
	102	95	0.06	0.05	-0.19	-1.45e-03	-7.88e-03	-1.70e-
04								
	102	96	0.08	-0.06	0.01	2.05e-05	-4.13e-03	-2.93e-
04								
	103	2	-4.27e-03	-0.07	-0.14	1.46e-03	-1.30e-03	0.0
	103	5	-9.86e-04	-0.11	-0.03	2.26e-03	-3.13e-04	0.0
	103	22	-1.32e-03	0.0	-0.04	0.0	-4.08e-04	0.0
	103	23	-8.56e-04	-0.01	-0.03	2.67e-04	-2.70e-04	0.0
	103	26	-2.97e-03	-0.05	-0.10	9.74e-04	-9.04e-04	0.0
	103	27	-7.77e-04	-0.07	-0.03	1.51e-03	-2.46e-04	0.0
	103	41	-0.10	0.03	-0.04	-3.63e-04	-1.94e-04	-9.89e-
05								
	103	64	0.03	-0.13	-0.03	1.73e-03	-2.93e-04	1.50e-04
05								
	103	73	-0.05	0.02	-0.03	-2.05e-04	-2.38e-04	-3.88e-
	103	96	0.01	-0.06	-0.03	7.55e-04	-2.92e-04	5.11e-05
	104	2	-4.25e-03	-0.05	-0.87	5.71e-03	-1.30e-03	0.0
	104	7	-6.78e-04	-0.10	-0.54	3.62e-03	-2.29e-04	0.0
	104	22	-1.32e-03	5.42e-03	-0.17	1.08e-03	-4.08e-04	0.0
	104	23	-8.51e-04	-8.91e-03	-0.16	1.03e-03	-2.70e-04	0.0
	104	26	-2.95e-03	-0.03	-0.60	3.90e-03	-9.04e-04	0.0
	104	27	-7.50e-04	-0.07	-0.40	2.65e-03	-2.46e-04	0.0
	104	41	-0.50	0.03	-0.05	3.11e-04	0.04	-1.73e-
03								
	104	65	-0.13	0.13	0.21	-1.70e-03	-1.12e-03	-4.71e-
04								
	104	66	-2.64e-03	-0.12	-0.46	2.92e-03	0.01	1.16e-04
	104	73	-0.23	0.02	-0.08	4.63e-04	0.02	-7.94e-
04								
	104	94	-0.05	-0.06	-0.26	1.74e-03	7.89e-03	-1.34e-
04								
	104	97	-0.05	0.06	0.03	-3.42e-04	1.97e-04	-1.86e-
04								
	105	2	-4.30e-03	-0.09	-0.30	-1.84e-03	-1.30e-03	0.0
	105	6	-2.62e-03	-0.12	0.09	7.20e-04	-7.90e-04	0.0
	105	7	-7.59e-04	-0.11	0.34	2.37e-03	-2.29e-04	0.0
	105	22	-1.32e-03	-5.42e-03	-0.17	-1.08e-03	-4.08e-04	0.0
	105	23	-8.61e-04	-0.02	-0.06	-3.25e-04	-2.70e-04	0.0
	105	26	-2.99e-03	-0.06	-0.21	-1.32e-03	-9.04e-04	0.0

04	105	28	-1.86e-03	-0.08	0.04	3.87e-04	-5.64e-04	0.0
	105	50	-0.50	-0.03	-0.05	-3.09e-04	0.05	1.73e-03
	105	61	-2.31e-03	0.12	-0.46	-2.92e-03	-1.18e-03	-1.17e-
06	105	62	-0.13	-0.13	0.21	1.71e-03	0.01	4.72e-04
	105	82	-0.23	-0.02	-0.08	-4.63e-04	0.02	7.94e-04
	105	94	-0.05	-0.06	0.03	3.43e-04	4.22e-03	1.86e-04
	105	97	-0.05	0.06	-0.26	-1.74e-03	3.86e-03	1.34e-04
	106	2	0.01	-0.07	-0.14	1.45e-03	1.32e-03	-1.50e-
	106	5	2.88e-03	-0.11	-0.03	2.25e-03	3.18e-04	-2.33e-
06	106	22	3.72e-03	0.0	-0.04	0.0	4.14e-04	0.0
	106	23	2.48e-03	-0.01	-0.03	2.66e-04	2.74e-04	0.0
	106	26	8.17e-03	-0.05	-0.09	9.69e-04	9.17e-04	-1.00e-
06	106	27	2.26e-03	-0.07	-0.03	1.50e-03	2.50e-04	-1.55e-
	106	39	0.10	0.03	-0.04	-6.40e-04	2.02e-04	1.03e-04
	106	40	0.10	-0.05	-0.04	3.95e-04	1.92e-04	1.61e-05
06	106	63	0.03	0.13	-0.03	-1.69e-03	2.76e-04	1.27e-04
	106	71	0.05	0.02	-0.03	-2.46e-04	2.44e-04	3.73e-05
	106	72	0.05	-0.02	-0.03	2.07e-04	2.42e-04	7.76e-06
	106	95	0.02	0.06	-0.03	-7.49e-04	2.75e-04	4.25e-05
	107	2	0.01	-0.05	-0.87	5.70e-03	1.32e-03	-1.50e-
	107	7	1.74e-03	-0.10	-0.54	3.61e-03	2.32e-04	-2.33e-
	107	22	3.72e-03	5.42e-03	-0.17	1.08e-03	4.14e-04	0.0
06	107	23	2.43e-03	-8.88e-03	-0.16	1.03e-03	2.74e-04	0.0
	107	26	8.01e-03	-0.03	-0.59	3.90e-03	9.17e-04	-1.00e-
	107	27	2.02e-03	-0.07	-0.40	2.64e-03	2.50e-04	-1.55e-
04	107	39	0.50	0.04	-0.05	-3.04e-04	-0.04	1.71e-03
	107	61	-0.08	0.14	0.24	-1.57e-03	8.25e-03	-2.08e-
04	107	64	7.83e-03	-0.13	-0.46	3.15e-03	5.67e-04	-1.01e-
	107	71	0.23	0.02	-0.08	3.17e-04	-0.02	7.93e-04
04	107	93	-0.05	0.06	0.04	-3.08e-04	4.54e-03	-1.38e-
	107	96	0.01	-0.06	-0.26	1.75e-03	-3.06e-04	-1.01e-
06	108	2	0.01	-0.09	-0.30	-1.85e-03	1.32e-03	-1.50e-
	108	6	7.53e-03	-0.12	0.09	7.10e-04	8.01e-04	-2.33e-
06	108	7	2.47e-03	-0.11	0.34	2.36e-03	2.32e-04	-2.33e-
	108	22	3.72e-03	-5.42e-03	-0.17	-1.08e-03	4.14e-04	0.0
06	108	23	2.52e-03	-0.02	-0.06	-3.26e-04	2.74e-04	0.0
	108	26	8.32e-03	-0.06	-0.21	-1.33e-03	9.17e-04	-1.00e-
	108	28	5.36e-03	-0.08	0.04	3.80e-04	5.72e-04	-1.55e-
03	108	48	0.50	-0.04	-0.05	3.07e-04	-0.04	-1.70e-
	108	59	8.99e-03	0.13	-0.46	-3.16e-03	5.32e-04	9.49e-05
	108	66	-0.08	-0.14	0.24	1.58e-03	8.29e-03	2.14e-04
04	108	80	0.23	-0.02	-0.08	-3.17e-04	-0.02	-7.93e-
	108	91	0.01	0.06	-0.26	-1.75e-03	-3.02e-04	0.0
	108	98	-0.05	-0.06	0.04	3.09e-04	4.54e-03	1.39e-04
06	109	2	-9.06e-04	-0.07	-0.02	8.96e-04	-8.39e-04	-3.32e-
	109	5	-1.72e-04	-0.10	-3.76e-03	1.39e-03	-2.04e-04	-5.14e-
06	109	22	-2.57e-04	0.0	-4.84e-03	0.0	-2.65e-04	0.0
	109	23	-1.54e-04	-0.01	-3.23e-03	1.64e-04	-1.76e-04	0.0
	109	26	-6.26e-04	-0.04	-0.01	5.98e-04	-5.84e-04	-2.21e-
06	109	27	-1.36e-04	-0.07	-2.95e-03	9.26e-04	-1.60e-04	-3.43e-
	109	41	-0.10	0.05	-9.58e-03	-2.71e-04	-3.82e-04	-1.44e-

04	109	50	-0.10	-0.05	-9.65e-03	2.71e-04	-3.87e-04	1.44e-04
	109	60	0.03	-0.13	-1.60e-03	1.19e-03	-1.29e-04	2.45e-04
	109	73	-0.05	0.02	-6.35e-03	-1.38e-04	-2.79e-04	-4.22e-
05	109	82	-0.05	-0.02	-6.36e-03	1.38e-04	-2.80e-04	4.22e-05
	109	92	0.01	-0.06	-2.48e-03	5.19e-04	-1.55e-04	7.23e-05
	110	2	-1.43e-03	-0.04	-0.66	5.15e-03	-8.39e-04	-3.32e-
06	110	7	-9.36e-04	-0.10	-0.38	2.75e-03	-1.49e-04	-5.14e-
06	110	22	-2.57e-04	5.42e-03	-0.13	1.08e-03	-2.65e-04	0.0
	110	23	-2.50e-04	-8.21e-03	-0.12	9.29e-04	-1.76e-04	0.0
	110	26	-9.75e-04	-0.03	-0.45	3.52e-03	-5.84e-04	-2.21e-
06	110	27	-6.78e-04	-0.06	-0.28	2.07e-03	-1.60e-04	-3.43e-
06	110	41	-0.50	0.05	-0.04	3.81e-04	0.05	-1.74e-
03	110	61	-0.22	0.13	0.15	-1.00e-03	0.02	-8.87e-
04	110	62	-0.06	-0.12	-0.34	2.53e-03	6.23e-03	-8.64e-
05	110	73	-0.23	0.02	-0.06	5.24e-04	0.02	-7.98e-
04	110	93	-0.09	0.06	0.02	-5.04e-05	7.76e-03	-3.26e-
04	110	94	-0.05	-0.05	-0.20	1.48e-03	4.20e-03	-1.36e-
04	111	2	-3.82e-04	-0.08	-0.27	-2.41e-03	-8.39e-04	-3.32e-
06	111	6	2.85e-04	-0.11	0.03	-1.54e-04	-5.11e-04	-5.14e-
06	111	7	6.89e-04	-0.10	0.23	1.50e-03	-1.49e-04	-5.14e-
06	111	22	-2.57e-04	-5.42e-03	-0.13	-1.08e-03	-2.65e-04	0.0
	111	23	-5.81e-05	-0.01	-0.05	-4.28e-04	-1.76e-04	0.0
	111	26	-2.76e-04	-0.06	-0.19	-1.70e-03	-5.84e-04	-2.21e-
06	111	27	4.05e-04	-0.07	0.12	7.64e-04	-1.60e-04	-3.43e-
06	111	28	1.69e-04	-0.07	5.85e-03	-1.96e-04	-3.65e-04	-3.43e-
06	111	50	-0.50	-0.05	-0.04	-3.81e-04	0.04	1.74e-03
	111	65	-0.06	0.12	-0.34	-2.53e-03	0.02	8.47e-05
	111	66	-0.23	-0.13	0.15	1.00e-03	5.94e-03	8.88e-04
	111	82	-0.23	-0.02	-0.06	-5.23e-04	0.02	7.99e-04
	111	97	-0.05	0.05	-0.20	-1.48e-03	7.81e-03	1.35e-04
	111	98	-0.09	-0.06	0.02	5.06e-05	4.14e-03	3.27e-04
	112	2	1.74e-03	-0.07	-0.17	1.60e-03	-4.53e-04	-3.14e-
06	112	5	4.84e-04	-0.11	-0.04	2.48e-03	-1.09e-04	-4.86e-
06	112	22	5.85e-04	0.0	-0.05	0.0	-1.42e-04	0.0
	112	23	4.09e-04	-0.01	-0.04	2.93e-04	-9.41e-05	0.0
	112	26	1.22e-03	-0.05	-0.12	1.07e-03	-3.15e-04	-2.09e-
06	112	27	3.79e-04	-0.07	-0.03	1.65e-03	-8.57e-05	-3.24e-
06	112	40	0.10	-0.06	-0.04	8.80e-04	-2.51e-04	8.96e-05
	112	50	-0.10	-0.06	-0.04	8.80e-04	5.84e-05	8.96e-05
	112	60	0.03	-0.16	-0.04	2.14e-03	-1.39e-04	1.37e-04
	112	72	0.05	-0.02	-0.04	3.05e-04	-1.72e-04	3.08e-05
	112	82	-0.05	-0.02	-0.04	3.05e-04	-2.36e-05	3.08e-05
	112	92	0.01	-0.07	-0.04	8.80e-04	-1.19e-04	4.35e-05
	113	2	1.24e-03	-0.05	-0.93	5.85e-03	-4.53e-04	-3.14e-
06	113	7	-4.12e-04	-0.10	-0.58	3.84e-03	-7.97e-05	-4.86e-
06	113	22	5.85e-04	5.42e-03	-0.18	1.08e-03	-1.42e-04	0.0
	113	23	3.19e-04	-8.90e-03	-0.17	1.06e-03	-9.41e-05	0.0
	113	26	8.85e-04	-0.03	-0.64	4.00e-03	-3.15e-04	-2.09e-
06	113	27	-1.33e-04	-0.07	-0.43	2.79e-03	-8.57e-05	-3.24e-
06								

LUMINORA LA FEUDALE SRL 			 WE ENGINEERING			CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture		
						PAGE 133 di/of 308		
04	113	40	0.49	-0.05	-0.18	2.01e-03	-0.04	1.69e-03
	113	61	-0.18	0.16	0.27	-2.32e-03	9.41e-03	-6.86e-
04	113	62	-0.10	-0.14	-0.55	3.45e-03	0.02	-2.93e-
04	113	72	0.23	-0.02	-0.16	1.14e-03	-0.02	7.79e-04
	113	93	-0.08	0.07	0.05	-5.34e-04	5.01e-03	-2.87e-
04	113	94	-0.05	-0.06	-0.30	1.89e-03	7.08e-03	-1.70e-
06	114	2	2.24e-03	-0.09	-0.31	-1.70e-03	-4.53e-04	-3.14e-
06	114	6	1.86e-03	-0.12	0.10	9.39e-04	-2.75e-04	-4.86e-
06	114	7	1.13e-03	-0.11	0.37	2.59e-03	-7.97e-05	-4.86e-
06	114	22	5.85e-04	-5.42e-03	-0.18	-1.08e-03	-1.42e-04	0.0
	114	23	5.00e-04	-0.02	-0.06	-2.99e-04	-9.41e-05	0.0
	114	26	1.55e-03	-0.06	-0.23	-1.23e-03	-3.15e-04	-2.09e-
06	114	28	1.30e-03	-0.08	0.05	5.33e-04	-1.97e-04	-3.24e-
03	114	47	0.49	0.05	-0.18	-2.01e-03	-0.04	-1.69e-
04	114	65	-0.10	0.14	-0.55	-3.45e-03	9.79e-03	2.84e-04
	114	66	-0.18	-0.16	0.27	2.32e-03	0.02	6.95e-04
	114	79	0.23	0.02	-0.16	-1.14e-03	-0.02	-7.79e-
04	114	97	-0.05	0.06	-0.30	-1.89e-03	5.04e-03	1.69e-04
	114	98	-0.08	-0.07	0.05	5.34e-04	7.05e-03	2.88e-04
	115	2	0.01	-0.07	-0.07	1.24e-03	1.49e-03	0.0
04	115	5	3.39e-03	-0.10	-0.02	1.92e-03	3.60e-04	0.0
	115	22	4.36e-03	0.0	-0.02	0.0	4.68e-04	0.0
	115	23	2.91e-03	-0.01	-0.01	2.27e-04	3.11e-04	0.0
04	115	26	9.55e-03	-0.04	-0.05	8.26e-04	1.03e-03	0.0
	115	27	2.66e-03	-0.07	-0.01	1.28e-03	2.83e-04	0.0
	115	40	0.10	-0.05	-0.03	6.65e-04	3.74e-04	7.95e-05
04	115	60	0.03	-0.15	-0.02	1.71e-03	3.51e-04	-1.15e-
05	115	72	0.05	-0.02	-0.02	2.40e-04	3.46e-04	7.44e-06
	115	80	0.05	-0.02	-0.02	1.77e-04	3.46e-04	-4.04e-
05	115	92	0.02	-0.06	-0.02	7.06e-04	3.32e-04	-4.77e-
05	116	2	0.01	-0.05	-0.76	5.49e-03	1.49e-03	0.0
	116	7	2.52e-03	-0.10	-0.47	3.28e-03	2.63e-04	0.0
	116	22	4.36e-03	5.42e-03	-0.15	1.08e-03	4.68e-04	0.0
05	116	23	2.91e-03	-8.46e-03	-0.14	9.92e-04	3.11e-04	0.0
	116	26	9.57e-03	-0.03	-0.52	3.75e-03	1.03e-03	0.0
	116	27	2.69e-03	-0.06	-0.35	2.42e-03	2.83e-04	0.0
05	116	39	0.53	0.04	-0.05	3.82e-04	-0.05	1.85e-03
	116	63	0.13	0.15	0.21	-1.62e-03	-0.01	4.57e-04
	116	64	0.01	-0.14	-0.43	2.81e-03	9.54e-04	-7.13e-
05	116	71	0.24	0.02	-0.07	5.05e-04	-0.02	7.99e-04
	116	95	0.05	0.07	0.03	-2.60e-04	-4.29e-03	1.77e-04
	116	96	0.02	-0.06	-0.24	1.61e-03	-9.99e-05	7.72e-06
05	117	2	0.01	-0.08	-0.26	-2.07e-03	1.49e-03	0.0
	117	6	8.34e-03	-0.11	0.08	3.76e-04	9.05e-04	0.0
	117	7	2.44e-03	-0.10	0.30	2.03e-03	2.63e-04	0.0
05	117	22	4.36e-03	-5.42e-03	-0.15	-1.08e-03	4.68e-04	0.0
	117	23	2.91e-03	-0.02	-0.05	-3.65e-04	3.11e-04	0.0
	117	26	9.53e-03	-0.06	-0.19	-1.47e-03	1.03e-03	0.0
05	117	28	5.96e-03	-0.07	0.04	1.57e-04	6.47e-04	0.0
	117	48	0.53	-0.04	-0.05	-3.81e-04	-0.04	-1.85e-
03	117	59	0.01	0.14	-0.43	-2.81e-03	-0.01	7.00e-05
04	117	60	0.12	-0.15	0.21	1.63e-03	8.11e-04	-4.55e-
04	117	80	0.24	-0.02	-0.07	-5.05e-04	-0.02	-7.99e-
06	117	91	0.02	0.06	-0.24	-1.61e-03	-4.28e-03	-7.83e-
04	117	92	0.05	-0.07	0.03	2.60e-04	-1.09e-04	-1.77e-

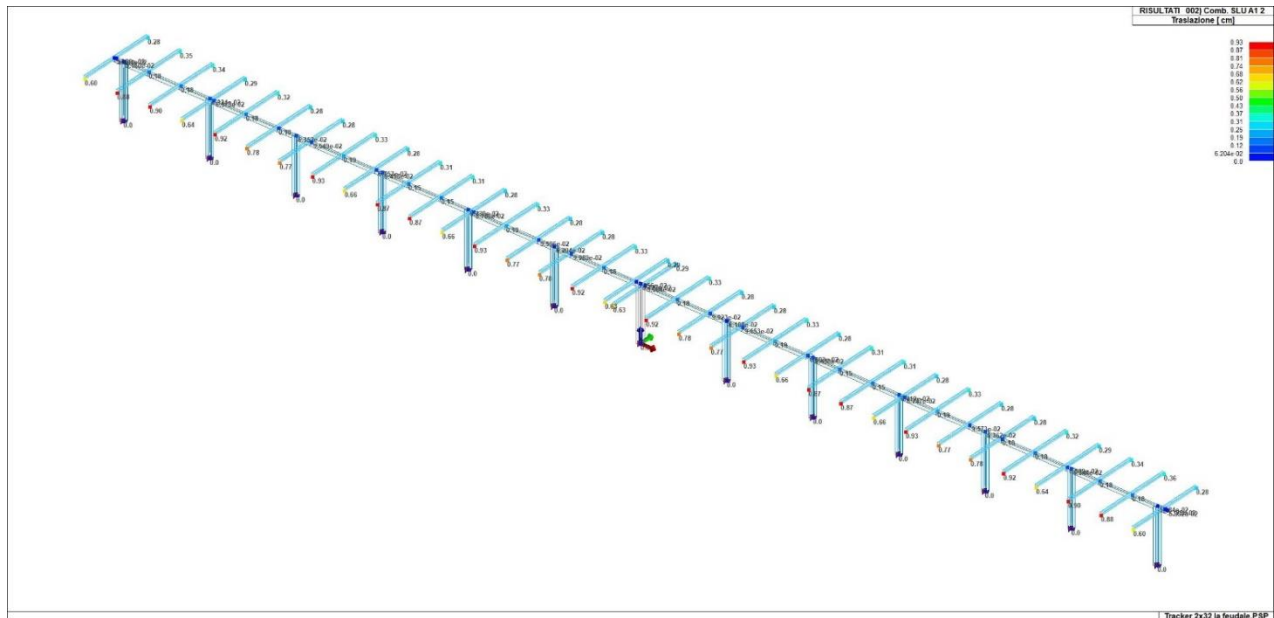
LUMINORA LA FEUDALE SRL			green & green WE ENGINEERING			CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture		
Powertis						PAGE 134 di/of 308		
	118	2	-3.83e-03	-0.07	-0.08	1.28e-03	-1.49e-03	4.72e-06
	118	5	-8.53e-04	-0.11	-0.02	1.99e-03	-3.61e-04	7.31e-06
	118	22	-1.16e-03	0.0	-0.02	0.0	-4.70e-04	0.0
	118	23	-7.44e-04	-0.01	-0.02	2.35e-04	-3.11e-04	0.0
	118	26	-2.65e-03	-0.05	-0.05	8.57e-04	-1.04e-03	3.15e-06
	118	27	-6.72e-04	-0.07	-0.01	1.33e-03	-2.84e-04	4.88e-06
	118	41	-0.10	0.06	-0.03	-1.70e-04	-3.54e-04	-1.91e-
04								
	118	63	0.03	0.16	-0.01	-1.52e-03	-3.20e-04	-2.40e-
04								
	118	73	-0.05	0.02	-0.02	-1.47e-04	-3.35e-04	-5.03e-
05								
	118	95	0.01	0.07	-0.01	-7.00e-04	-3.21e-04	-9.20e-
05								
	119	2	-3.08e-03	-0.05	-0.78	5.54e-03	-1.49e-03	4.72e-06
	119	7	5.36e-04	-0.10	-0.49	3.35e-03	-2.64e-04	7.31e-06
	119	22	-1.16e-03	5.42e-03	-0.15	1.08e-03	-4.70e-04	0.0
	119	23	-6.08e-04	-8.58e-03	-0.14	1.00e-03	-3.11e-04	0.0
	119	26	-2.16e-03	-0.03	-0.53	3.78e-03	-1.04e-03	3.15e-06
	119	27	9.80e-05	-0.06	-0.36	2.47e-03	-2.84e-04	4.88e-06
	119	41	-0.53	0.07	-0.07	5.71e-04	0.04	-1.89e-
03								
	119	63	-0.01	0.16	0.23	-1.30e-03	-0.01	-1.68e-
04								
	119	66	0.01	-0.15	-0.43	2.69e-03	0.01	1.68e-04
	119	73	-0.24	0.03	-0.07	5.35e-04	0.02	-8.19e-
04								
	119	95	9.91e-04	0.07	0.05	-2.24e-04	-5.62e-03	-5.46e-
05								
	119	98	-2.55e-03	-0.06	-0.24	1.62e-03	4.97e-03	5.46e-05
	120	2	-4.57e-03	-0.08	-0.27	-2.02e-03	-1.49e-03	4.72e-06
	120	6	-3.45e-03	-0.11	0.08	4.48e-04	-9.08e-04	7.31e-06
	120	7	-1.78e-03	-0.10	0.31	2.10e-03	-2.64e-04	7.31e-06
	120	22	-1.16e-03	-5.42e-03	-0.15	-1.08e-03	-4.70e-04	0.0
	120	23	-8.81e-04	-0.02	-0.05	-3.57e-04	-3.11e-04	0.0
	120	26	-3.15e-03	-0.06	-0.19	-1.44e-03	-1.04e-03	3.15e-06
	120	28	-2.40e-03	-0.08	0.04	2.05e-04	-6.49e-04	4.88e-06
	120	50	-0.53	-0.07	-0.07	-5.71e-04	0.05	1.89e-03
	120	60	-0.01	-0.16	0.23	1.30e-03	1.69e-03	1.67e-04
	120	61	9.69e-03	0.15	-0.43	-2.69e-03	-2.34e-03	-1.67e-
04								
	120	82	-0.24	-0.03	-0.07	-5.35e-04	0.02	8.19e-04
	120	92	9.96e-04	-0.07	0.05	2.24e-04	-4.72e-05	5.46e-05
	120	93	-2.55e-03	0.06	-0.24	-1.62e-03	-6.00e-04	-5.46e-
05								
	121	2	9.20e-03	-0.07	-0.17	1.57e-03	6.22e-04	0.0
	121	5	2.30e-03	-0.11	-0.04	2.44e-03	1.49e-04	0.0
	121	22	2.94e-03	0.0	-0.05	0.0	1.95e-04	0.0
	121	23	1.97e-03	-0.01	-0.03	2.88e-04	1.29e-04	0.0
	121	26	6.41e-03	-0.05	-0.12	1.05e-03	4.32e-04	0.0
	121	27	1.80e-03	-0.07	-0.03	1.62e-03	1.17e-04	0.0
	121	40	0.10	-0.02	-0.04	1.37e-05	-1.26e-05	9.49e-05
	121	47	0.10	0.02	-0.04	-1.37e-05	-1.13e-05	-9.49e-
05								
	121	64	0.03	-0.16	-0.04	1.99e-03	8.82e-05	-3.49e-
04								
	121	71	0.05	0.03	-0.04	-3.84e-04	6.42e-05	7.37e-05
	121	72	0.05	-0.02	-0.04	1.34e-04	6.40e-05	3.01e-05
	121	96	0.02	-0.07	-0.04	9.01e-04	1.13e-04	-8.83e-
05								
	122	2	9.30e-03	-0.05	-0.92	5.82e-03	6.22e-04	0.0
	122	7	1.83e-03	-0.10	-0.57	3.80e-03	1.09e-04	0.0
	122	22	2.94e-03	5.42e-03	-0.18	1.08e-03	1.95e-04	0.0
	122	23	1.99e-03	-8.98e-03	-0.17	1.05e-03	1.29e-04	0.0
	122	26	6.47e-03	-0.03	-0.63	3.98e-03	4.32e-04	0.0
	122	27	1.91e-03	-0.07	-0.42	2.76e-03	1.17e-04	0.0
	122	39	0.59	0.08	-0.12	-8.78e-04	-0.05	2.17e-03
	122	59	0.29	0.16	0.21	-2.12e-03	-5.54e-03	1.21e-03
	122	60	0.04	-0.14	-0.52	3.03e-03	-0.02	-2.16e-
05								
	122	71	0.25	0.03	-0.09	1.55e-04	-0.02	8.61e-04
	122	91	0.10	0.07	0.04	-5.56e-04	-3.98e-03	3.90e-04
	122	92	0.04	-0.06	-0.30	1.84e-03	-8.59e-03	1.00e-04
	123	2	9.11e-03	-0.09	-0.31	-1.73e-03	6.22e-04	0.0
	123	6	5.48e-03	-0.12	0.10	8.93e-04	3.78e-04	0.0

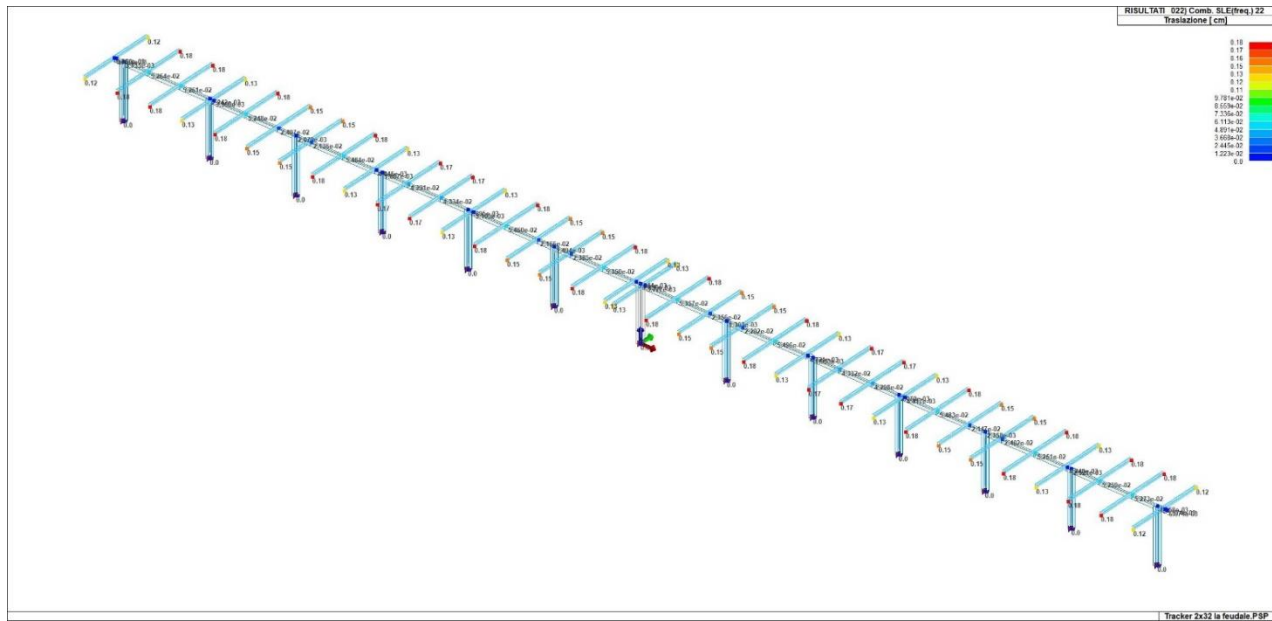
	123	7	1.53e-03	-0.11	0.37	2.54e-03	1.09e-04	0.0
	123	22	2.94e-03	-5.42e-03	-0.18	-1.08e-03	1.95e-04	0.0
	123	23	1.95e-03	-0.02	-0.06	-3.04e-04	1.29e-04	0.0
	123	26	6.34e-03	-0.06	-0.22	-1.25e-03	4.32e-04	0.0
	123	28	3.93e-03	-0.08	0.05	5.02e-04	2.70e-04	0.0
	123	48	0.59	-0.08	-0.12	8.78e-04	-0.05	-2.17e-
03								
	123	63	0.04	0.14	-0.52	-3.03e-03	-5.77e-03	1.39e-05
	123	64	0.29	-0.16	0.21	2.12e-03	-0.02	-1.20e-
03								
	123	80	0.25	-0.03	-0.09	-1.55e-04	-0.02	-8.60e-
04								
	123	95	0.04	0.06	-0.30	-1.84e-03	-3.99e-03	-1.01e-
04								
	123	96	0.10	-0.07	0.04	5.56e-04	-8.58e-03	-3.89e-
04								
	124	2	9.14e-03	-0.06	-8.48e-03	7.91e-04	5.54e-04	-1.36e-
05								
	124	5	2.30e-03	-0.10	-2.12e-03	1.22e-03	1.34e-04	-2.11e-
05								
	124	22	2.93e-03	0.0	-2.71e-03	0.0	1.74e-04	0.0
	124	23	1.97e-03	-0.01	-1.82e-03	1.45e-04	1.16e-04	-2.49e-
06								
	124	26	6.37e-03	-0.04	-5.90e-03	5.27e-04	3.85e-04	-9.09e-
06								
	124	27	1.80e-03	-0.07	-1.67e-03	8.16e-04	1.06e-04	-1.41e-
05								
	124	40	0.10	9.20e-03	-6.29e-03	-1.08e-04	3.55e-04	-6.12e-
04								
	124	59	0.03	0.13	-3.08e-03	-1.11e-03	1.82e-04	4.97e-04
	124	72	0.05	-6.78e-03	-3.95e-03	4.86e-05	2.30e-04	-1.62e-
04								
	124	91	0.02	0.06	-2.49e-03	-5.40e-04	1.52e-04	1.21e-04
	125	2	6.99e-03	-0.04	-0.64	5.04e-03	5.54e-04	-1.36e-
05								
	125	7	-1.65e-03	-0.09	-0.35	2.59e-03	9.81e-05	-2.11e-
05								
	125	22	2.93e-03	5.42e-03	-0.13	1.08e-03	1.74e-04	0.0
	125	23	1.57e-03	-7.98e-03	-0.12	9.10e-04	1.16e-04	-2.49e-
06								
	125	26	4.93e-03	-0.03	-0.43	3.45e-03	3.85e-04	-9.09e-
06								
	125	27	-4.21e-04	-0.06	-0.26	1.96e-03	1.06e-04	-1.41e-
05								
	125	39	0.77	0.08	-0.10	-3.26e-04	-0.07	3.01e-03
	125	60	-0.04	-0.10	-0.32	2.07e-03	2.43e-04	-4.58e-
04								
	125	65	0.20	0.13	0.15	-1.01e-03	-0.01	1.02e-03
	125	71	0.28	0.03	-0.07	3.25e-04	-0.02	1.04e-03
	125	92	0.02	-0.05	-0.20	1.42e-03	-2.30e-03	-1.63e-
05								
	125	97	0.03	0.07	0.03	-1.06e-04	-2.12e-03	2.08e-04
	126	2	0.01	-0.08	-0.28	-2.51e-03	5.54e-04	-1.36e-
05								
	126	6	8.94e-03	-0.11	4.28e-03	-3.18e-04	3.37e-04	-2.11e-
05								
	126	22	2.93e-03	-5.42e-03	-0.13	-1.08e-03	1.74e-04	0.0
	126	23	2.36e-03	-0.01	-0.05	-4.47e-04	1.16e-04	-2.49e-
06								
	126	26	7.80e-03	-0.05	-0.20	-1.77e-03	3.85e-04	-9.09e-
06								
	126	28	6.23e-03	-0.07	-8.45e-03	-3.05e-04	2.41e-04	-1.41e-
05								
	126	48	0.77	-0.08	-0.10	3.27e-04	-0.06	-3.01e-
03								
	126	62	0.20	-0.13	0.15	1.01e-03	0.02	-1.02e-
03								
	126	63	-0.04	0.10	-0.32	-2.07e-03	-0.04	4.59e-04
	126	80	0.28	-0.03	-0.07	-3.25e-04	-0.02	-1.04e-
03								
	126	94	0.03	-0.07	0.03	1.06e-04	7.20e-03	-2.08e-
04								
	126	95	0.02	0.05	-0.20	-1.42e-03	-0.01	1.64e-05
	127	2	-2.51e-03	-0.07	-0.17	1.43e-03	-1.45e-03	-3.12e-
05								

LUMINORA LA FEUDALE SRL 			 WE ENGINEERING			CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture		
						PAGE 136 di/of 308		
05	127	5	-5.33e-04	-0.10	-0.04	2.21e-03	-3.54e-04	-4.83e-
	127	22	-7.45e-04	0.0	-0.05	0.0	-4.59e-04	0.0
	127	23	-4.69e-04	-0.01	-0.03	2.62e-04	-3.05e-04	-5.70e-
06	127	26	-1.74e-03	-0.04	-0.12	9.53e-04	-1.01e-03	-2.08e-
05	127	27	-4.21e-04	-0.07	-0.03	1.48e-03	-2.78e-04	-3.22e-
05	127	41	-0.10	-0.05	-0.04	-1.25e-03	-1.67e-04	-4.41e-
04	127	59	0.03	0.16	-0.04	-1.07e-03	-3.66e-04	-3.05e-
04	127	73	-0.05	-5.18e-03	-0.04	-4.66e-04	-2.45e-04	-1.29e-
	127	81	-0.05	0.04	-0.04	4.48e-05	-2.45e-04	6.38e-05
	127	91	0.01	0.07	-0.04	-6.25e-04	-3.39e-04	-8.04e-
05	128	2	-7.43e-03	-0.04	-0.89	5.68e-03	-1.45e-03	-3.12e-
05	128	6	-9.11e-03	-0.09	-0.81	5.22e-03	-8.85e-04	-4.83e-
05	128	7	-8.01e-03	-0.09	-0.54	3.58e-03	-2.59e-04	-4.83e-
05	128	22	-7.45e-04	5.42e-03	-0.18	1.08e-03	-4.59e-04	0.0
	128	23	-1.37e-03	-8.13e-03	-0.17	1.03e-03	-3.05e-04	-5.70e-
06	128	26	-5.02e-03	-0.03	-0.61	3.88e-03	-1.01e-03	-2.08e-
05	128	27	-5.50e-03	-0.06	-0.40	2.62e-03	-2.78e-04	-3.22e-
05	128	28	-6.14e-03	-0.06	-0.55	3.58e-03	-6.32e-04	-3.22e-
05	128	41	-0.69	-0.05	-0.21	-1.09e-03	0.05	-2.61e-
03	128	59	0.03	0.16	0.20	-8.34e-04	-0.03	-5.70e-
05	128	66	0.10	-0.10	-0.44	2.96e-03	0.02	5.62e-04
	128	73	-0.27	-1.57e-03	-0.13	3.84e-05	0.02	-9.74e-
04	128	91	0.03	0.08	0.04	-1.68e-04	-0.01	6.34e-05
	128	98	0.01	-0.05	-0.27	1.79e-03	6.05e-03	1.17e-04
	129	2	2.41e-03	-0.08	-0.33	-1.87e-03	-1.45e-03	-3.12e-
05	129	6	6.14e-03	-0.11	0.06	6.72e-04	-8.85e-04	-4.83e-
05	129	7	7.24e-03	-0.10	0.33	2.32e-03	-2.59e-04	-4.83e-
05	129	22	-7.45e-04	-5.42e-03	-0.18	-1.08e-03	-4.59e-04	0.0
	129	23	4.32e-04	-0.01	-0.06	-3.30e-04	-3.05e-04	-5.70e-
06	129	26	1.54e-03	-0.06	-0.24	-1.34e-03	-1.01e-03	-2.08e-
05	129	27	4.66e-03	-0.07	0.18	1.31e-03	-2.78e-04	-3.22e-
05	129	28	4.03e-03	-0.07	0.03	3.55e-04	-6.32e-04	-3.22e-
05	129	50	-0.69	0.05	-0.21	1.09e-03	0.06	2.61e-03
	129	61	0.10	0.10	-0.44	-2.96e-03	-8.12e-03	-5.62e-
04	129	64	0.03	-0.16	0.20	8.33e-04	-4.75e-03	5.69e-05
	129	82	-0.27	1.57e-03	-0.13	-3.84e-05	0.02	9.74e-04
	129	93	0.01	0.05	-0.27	-1.79e-03	-1.77e-03	-1.17e-
04	129	96	0.03	-0.08	0.04	1.68e-04	-3.28e-03	-6.34e-
05	130	2	0.02	-0.06	-0.17	1.34e-03	1.48e-03	-4.09e-
05	130	5	3.84e-03	-0.09	-0.04	2.08e-03	3.57e-04	-6.34e-
05	130	22	4.93e-03	0.0	-0.05	0.0	4.65e-04	0.0
	130	23	3.30e-03	-0.01	-0.03	2.46e-04	3.08e-04	-7.49e-
06	130	26	0.01	-0.04	-0.12	8.96e-04	1.03e-03	-2.73e-
05								

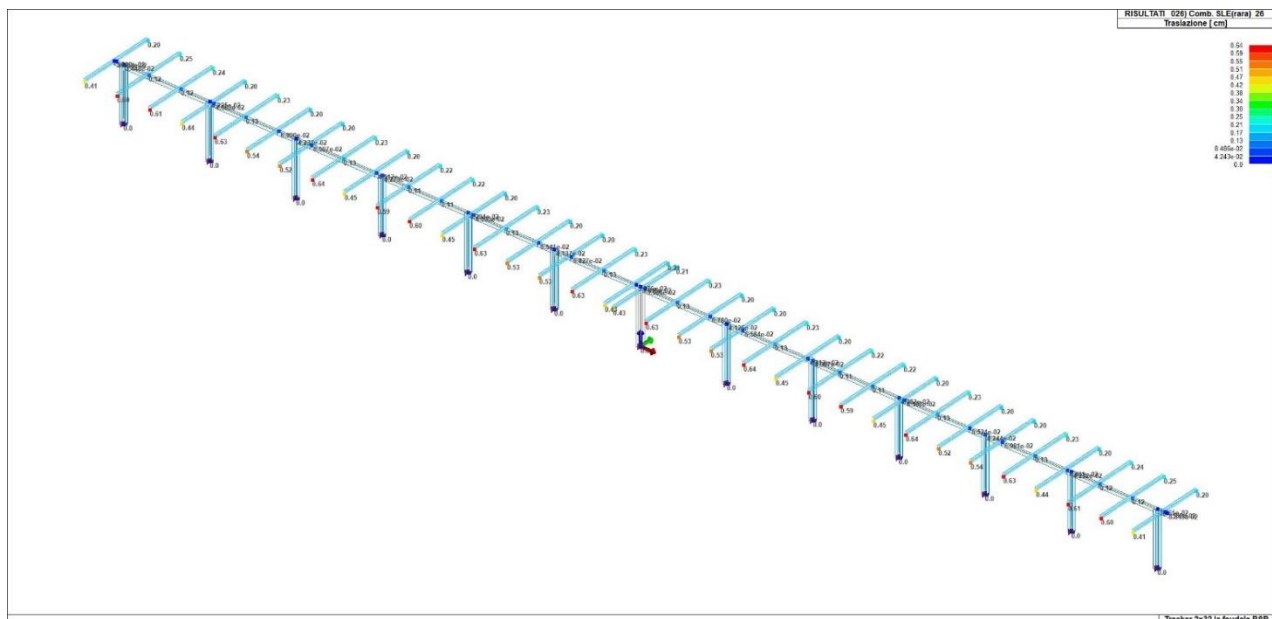
05	130	27	3.02e-03	-0.06	-0.03	1.39e-03	2.81e-04	-4.22e-
	130	39	0.10	0.12	-0.05	5.13e-04	2.57e-04	5.27e-04
	130	40	0.10	0.06	-0.05	1.21e-03	2.55e-04	1.97e-04
	130	59	0.03	0.14	-0.04	-9.03e-04	3.04e-04	6.58e-04
	130	71	0.05	0.04	-0.04	9.21e-05	2.94e-04	1.87e-04
	130	72	0.05	8.81e-03	-0.04	4.61e-04	2.93e-04	5.30e-05
	130	91	0.02	0.06	-0.04	-5.32e-04	3.13e-04	2.59e-04

Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
03	-0.77	-0.17	-0.93	-3.46e-03	-0.07	-3.01e-
	0.77	0.17	0.37	5.85e-03	0.07	3.01e-03

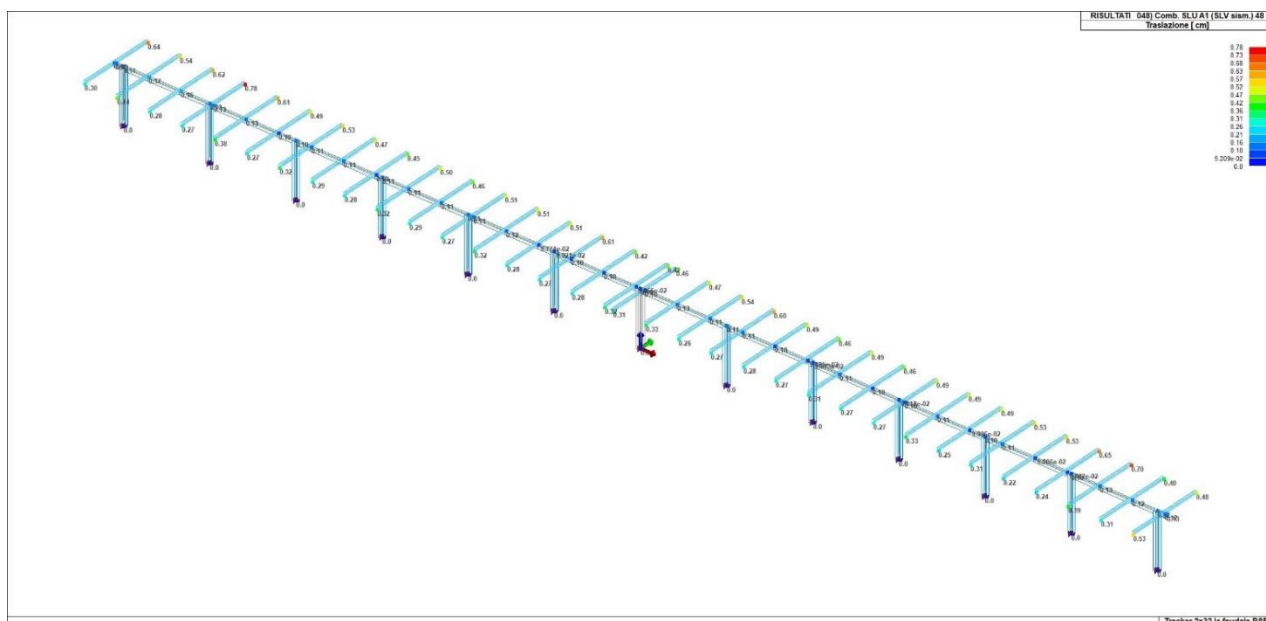




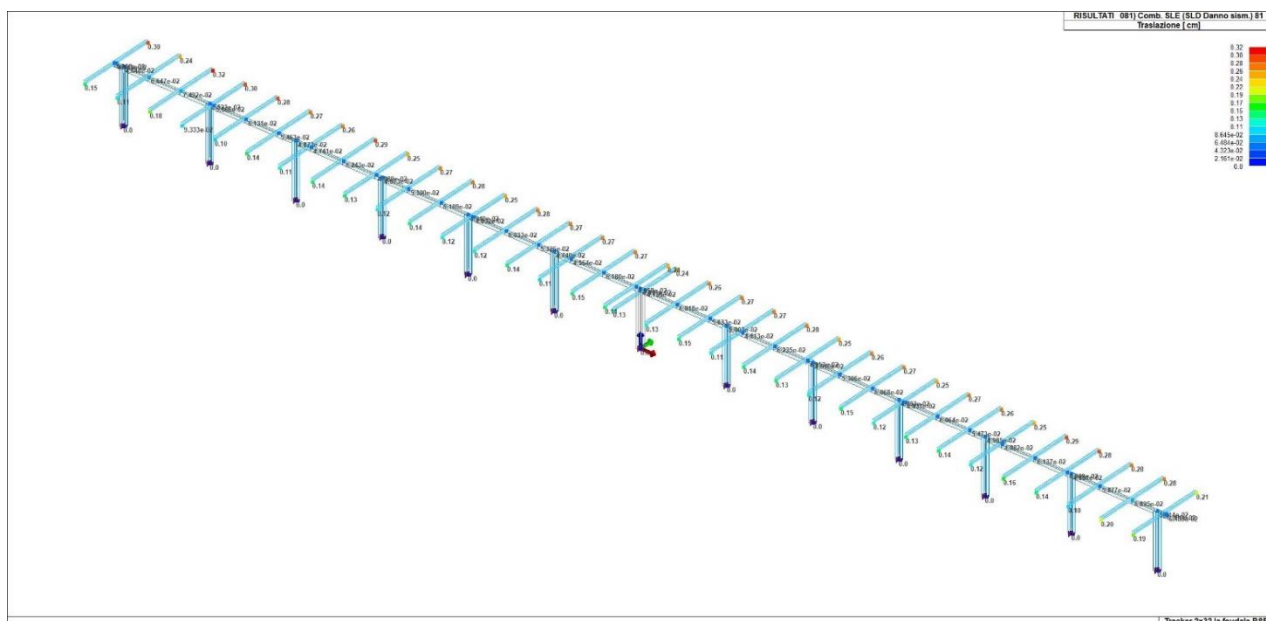
41_RIS_SPOSTAMENTI_022_Comb. SLE(freq.) 22



41_RIS_SPOSTAMENTI_026_Comb. SLE(rara) 26



41_RIS_SPOSTAMENTI_048_Comb. SLU A1 (SLV sism.) 48



41_RIS_SPOSTAMENTI_081_Comb. SLE (SLD Danno sism.) 81

RZ	Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione
			daN	daN	daN	daN cm	daN cm	daN cm
	1	2	3.03	-1.28	-2140.41	1.790e+04	422.06	-0.04
	1	5	0.74	-1.98	-592.94	2.773e+04	103.60	-0.06
	1	7	0.54	-1.98	-437.21	2.773e+04	75.81	-0.06
	1	22	0.96	0.0	-718.55	0.0	133.70	0.0
	1	23	0.64	-0.23	-501.93	3275.82	89.12	-7.20e-
03	1	26	2.11	-0.85	-1496.15	1.193e+04	293.73	-0.03
	1	27	0.59	-1.32	-464.50	1.848e+04	81.42	-0.04
	1	39	167.32	30.85	-522.74	-8029.11	2.363e+04	28.89
	1	60	47.28	-108.93	-504.44	2.778e+04	6891.11	16.53

1	64	47.28	-107.92	-504.44	2.761e+04	6891.11	-2.10
1	65	-45.95	107.92	-533.74	-2.761e+04	-6705.80	2.10
1	71	80.25	16.76	-519.69	-4270.55	1.136e+04	8.29
1	93	-22.69	56.34	-521.42	-1.435e+04	-3246.18	-4.23
1	96	24.02	-56.26	-516.76	1.433e+04	3431.49	-1.03
1	97	-22.69	56.26	-521.42	-1.433e+04	-3246.18	1.03
3	2	-0.40	0.96	-1691.70	1.302e+04	49.96	-0.59
3	5	-0.07	1.49	-487.11	2.017e+04	13.03	-0.91
3	7	-0.05	1.49	-360.00	2.017e+04	9.57	-0.91
3	22	-0.11	0.0	-579.00	0.0	16.29	0.0
3	23	-0.07	0.18	-410.37	2382.49	11.12	-0.11
3	26	-0.28	0.64	-1184.30	8679.07	34.84	-0.39
3	27	-0.06	0.99	-381.24	1.344e+04	10.22	-0.61
3	40	133.23	-5.96	-423.89	1425.71	1.761e+04	-13.85
3	56	40.21	-113.50	-420.12	2.781e+04	5309.04	-13.03
3	59	38.28	113.17	-444.45	-2.707e+04	5161.96	8.94
3	62	-38.42	-113.17	-403.01	2.707e+04	-5138.91	-8.94
3	72	63.81	-8.27	-425.32	2011.29	8445.40	-3.50
3	89	-19.28	55.64	-424.07	-1.363e+04	-2521.79	3.94
3	91	18.78	51.50	-427.66	-1.233e+04	2518.26	2.40
3	94	-18.92	-51.50	-419.80	1.233e+04	-2495.21	-2.40
4	2	0.13	-0.38	-1700.75	1.366e+04	-353.82	0.09
4	5	-0.28	-0.58	-488.88	2.116e+04	-111.39	0.14
4	7	-0.22	-0.58	-361.26	2.116e+04	-82.72	0.14
4	22	-0.15	0.0	-581.59	0.0	-126.80	0.0
4	23	-0.20	-0.07	-411.95	2499.63	-92.86	0.02
4	26	0.06	-0.25	-1190.55	9105.79	-248.62	0.06
4	27	-0.21	-0.39	-382.64	1.411e+04	-87.00	0.09
4	42	-130.64	-18.88	-430.69	5451.83	-1.743e+04	0.49
4	47	130.24	41.07	-420.08	-1.011e+04	1.724e+04	-5.33
4	50	-130.64	-41.07	-430.69	1.011e+04	-1.743e+04	5.33
4	52	38.21	-130.85	-425.22	3.375e+04	5049.29	-9.36
4	74	-62.61	-11.98	-426.71	3139.12	-8396.68	0.47
4	79	62.21	15.70	-424.06	-3790.90	8205.58	-1.27
4	82	-62.61	-15.70	-426.71	3790.90	-8396.68	1.27
4	85	-18.80	59.82	-425.54	-1.533e+04	-2576.67	2.87
5	2	-13.59	0.28	-1700.43	1.352e+04	-1406.98	0.13
5	5	-3.11	0.44	-488.84	2.094e+04	-331.77	0.21
5	7	-2.26	0.44	-361.24	2.094e+04	-242.08	0.21
5	22	-4.17	0.0	-581.51	0.0	-437.56	0.0
5	23	-2.70	0.05	-411.91	2474.22	-287.05	0.02
5	26	-9.44	0.19	-1190.33	9013.24	-977.85	0.09
5	27	-2.45	0.29	-382.60	1.396e+04	-261.05	0.14
5	39	127.60	20.61	-417.06	-5013.50	1.703e+04	0.76
5	41	-133.55	33.84	-430.53	-8602.13	-1.766e+04	-6.09
5	42	-133.24	-20.61	-433.62	5013.50	-1.763e+04	-0.76
5	55	36.12	136.27	-421.34	-3.649e+04	4884.84	9.37
5	71	59.77	11.54	-423.62	-2737.13	8014.29	-0.26
5	73	-65.46	13.93	-426.55	-3527.20	-8617.00	-1.21
5	74	-65.41	-11.54	-427.06	2737.13	-8612.23	0.26
5	90	-21.56	-61.79	-426.08	1.608e+04	-2790.20	-2.66
6	2	-5.39	-0.79	-1688.01	1.346e+04	-884.58	-0.15
6	5	-1.41	-1.22	-486.10	2.084e+04	-227.67	-0.23
6	7	-1.04	-1.22	-359.25	2.084e+04	-167.11	-0.23
6	22	-1.76	0.0	-577.76	0.0	-286.54	0.0
6	23	-1.20	-0.14	-409.51	2462.52	-194.58	-0.03
6	26	-3.76	-0.52	-1181.72	8970.59	-616.64	-0.10
6	27	-1.11	-0.81	-380.45	1.390e+04	-178.70	-0.15
6	41	-131.67	14.37	-418.50	-3656.08	-1.754e+04	4.84
6	51	37.51	164.47	-428.51	-4.232e+04	4969.80	6.22
6	63	37.32	96.34	-432.61	-2.192e+04	4951.54	-3.79
6	66	-39.81	-96.34	-413.07	2.192e+04	-5355.28	3.79
6	73	-63.62	9.58	-422.21	-2441.88	-8499.63	0.85
6	83	17.41	69.36	-423.94	-1.766e+04	2282.96	2.18
6	95	17.37	42.42	-424.80	-9960.29	2278.22	-1.05
6	98	-19.86	-42.42	-420.88	9960.29	-2681.95	1.05
7	2	-20.50	1.06	-1736.12	1.327e+04	-2049.59	0.86
7	5	-5.58	1.64	-498.00	2.055e+04	-547.71	1.33
7	7	-4.11	1.64	-367.96	2.055e+04	-402.98	1.33
7	22	-6.82	0.0	-593.06	0.0	-676.03	0.0
7	23	-4.73	0.19	-419.74	2428.09	-465.79	0.16
7	26	-14.32	0.70	-1215.21	8845.18	-1430.72	0.57
7	27	-4.37	1.09	-389.80	1.370e+04	-429.47	0.89
7	41	-138.25	75.24	-446.48	-1.920e+04	-1.805e+04	26.54
7	47	128.76	75.24	-418.37	-1.920e+04	1.706e+04	26.54

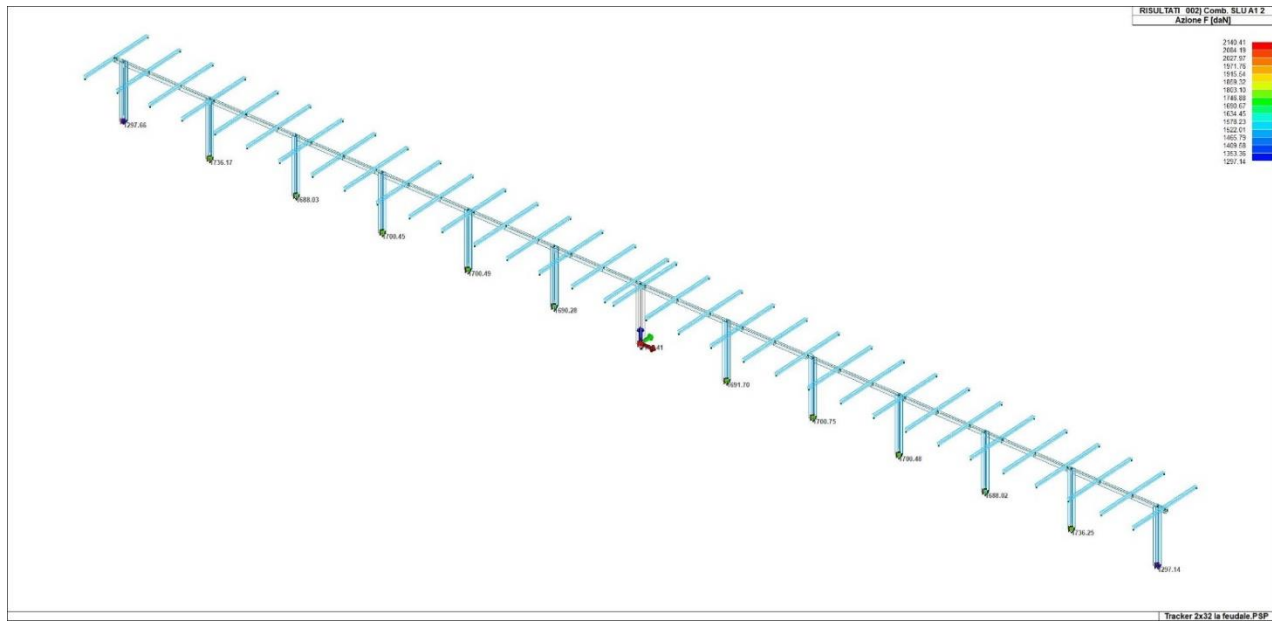
7	50	-138.56	-75.24	-448.57	1.920e+04	-1.803e+04	-26.54
7	55	35.28	152.09	-427.66	-3.802e+04	4793.10	39.17
7	73	-69.06	26.05	-438.07	-6340.92	-8910.46	7.22
7	79	59.31	26.05	-428.54	-6340.92	7942.97	7.22
7	82	-69.11	-26.05	-438.41	6340.92	-8907.86	-7.22
7	87	14.37	74.51	-431.78	-1.867e+04	2046.87	9.97
8	2	140.06	-0.46	-1289.56	1.070e+04	9459.83	2.31
8	6	86.65	-0.72	-819.16	1.657e+04	5854.87	3.57
8	7	26.96	-0.72	-280.46	1.657e+04	1824.06	3.57
8	22	45.75	0.0	-446.00	0.0	3092.68	0.0
8	23	31.28	-0.08	-318.54	1957.73	2115.88	0.42
8	26	97.70	-0.31	-903.52	7131.73	6598.99	1.54
8	27	28.78	-0.48	-296.52	1.105e+04	1947.12	2.38
8	28	62.09	-0.48	-589.93	1.105e+04	4195.68	2.38
8	40	133.19	52.40	-377.74	-1.493e+04	1.738e+04	45.28
8	41	-68.34	-52.40	-279.54	1.493e+04	-1.299e+04	-45.28
8	56	62.86	-118.96	-345.53	2.834e+04	6766.90	45.47
8	72	80.52	19.49	-349.19	-5207.10	9455.42	16.17
8	73	-15.66	-19.49	-308.09	5207.10	-5068.91	-16.17
8	88	46.89	-52.31	-335.15	1.297e+04	4374.78	16.92
9	2	19.05	1.06	-1736.06	1.327e+04	1859.54	-0.86
9	5	5.23	1.64	-497.99	2.055e+04	501.37	-1.33
9	7	3.85	1.64	-367.95	2.055e+04	369.09	-1.33
9	22	6.36	0.0	-593.04	0.0	616.01	0.0
9	23	4.43	0.19	-419.73	2428.10	425.89	-0.16
9	26	13.31	0.70	-1215.17	8845.21	1298.48	-0.57
9	27	4.10	1.09	-389.79	1.370e+04	393.04	-0.89
9	39	138.77	93.00	-448.01	-2.435e+04	1.811e+04	-31.74
9	40	139.28	12.66	-445.53	-4276.23	1.813e+04	-12.12
9	42	-129.60	-93.00	-418.90	2.435e+04	-1.722e+04	31.74
9	59	44.06	149.74	-441.58	-3.775e+04	5701.85	-39.27
9	71	69.17	35.61	-438.45	-9007.21	8923.81	-8.38
9	72	69.25	-6.41	-437.95	1510.19	8927.95	-3.46
9	74	-60.01	-35.61	-428.46	9007.21	-8041.92	8.38
9	91	23.84	74.43	-435.72	-1.865e+04	2979.54	-9.97
10	2	3.95	-0.78	-1688.03	1.345e+04	693.50	0.15
10	5	1.06	-1.20	-486.11	2.084e+04	181.07	0.23
10	7	0.78	-1.20	-359.25	2.084e+04	133.03	0.23
10	22	1.31	0.0	-577.77	0.0	226.20	0.0
10	23	0.90	-0.14	-409.52	2462.21	154.46	0.03
10	26	2.75	-0.52	-1181.73	8969.48	483.69	0.10
10	27	0.83	-0.80	-380.45	1.389e+04	142.07	0.15
10	40	132.41	-62.89	-419.57	1.550e+04	1.762e+04	-4.23
10	59	39.28	151.47	-413.67	-3.997e+04	5326.79	-9.90
10	60	41.29	-161.08	-428.70	4.190e+04	5460.10	5.94
10	62	-37.42	-151.47	-432.02	3.997e+04	-5006.50	9.90
10	72	63.76	-23.91	-422.32	5839.47	8516.59	-0.53
10	91	19.61	67.09	-420.88	-1.727e+04	2654.44	-2.89
10	94	-17.74	-67.09	-424.81	1.727e+04	-2334.15	2.89
10	95	19.61	69.17	-420.88	-1.763e+04	2654.44	-2.12
11	2	12.13	0.19	-1700.40	1.354e+04	1211.66	-0.16
11	5	2.75	0.30	-488.83	2.097e+04	284.22	-0.25
11	7	2.00	0.30	-361.23	2.097e+04	207.31	-0.25
11	22	3.71	0.0	-581.50	0.0	375.92	0.0
11	23	2.39	0.04	-411.90	2477.29	246.10	-0.03
11	26	8.42	0.13	-1190.31	9024.40	841.96	-0.11
11	27	2.17	0.20	-382.60	1.398e+04	223.67	-0.17
11	40	134.14	-32.99	-429.05	8916.16	1.773e+04	6.61
11	59	41.35	133.73	-438.50	-3.626e+04	5448.64	-9.36
11	62	-36.36	-133.73	-412.17	3.626e+04	-4935.88	9.36
11	72	65.57	-17.25	-426.29	4396.96	8631.67	1.33
11	91	21.29	61.81	-427.46	-1.608e+04	2758.52	-2.65
11	94	-16.30	-61.81	-423.21	1.608e+04	-2245.76	2.65
12	2	-1.84	-0.16	-1700.48	1.362e+04	137.82	0.08
12	5	-0.14	-0.25	-488.82	2.109e+04	58.05	0.12
12	7	-0.09	-0.25	-361.22	2.109e+04	43.68	0.12
12	22	-0.40	0.0	-581.51	0.0	58.19	0.0
12	23	-0.16	-0.03	-411.90	2491.86	47.02	0.01
12	26	-1.25	-0.11	-1190.37	9077.48	98.27	0.05
12	27	-0.12	-0.16	-382.59	1.406e+04	45.09	0.08
12	39	131.40	48.54	-427.86	-1.224e+04	1.752e+04	-0.46
12	59	40.62	128.74	-420.15	-3.376e+04	5381.77	-9.12
12	60	37.71	-122.20	-433.21	3.237e+04	5177.13	10.62
12	61	-38.07	122.20	-417.45	-3.237e+04	-5081.33	-10.62
12	71	62.80	19.54	-426.25	-4892.20	8416.94	-0.48

12	72	62.67	-15.84	-426.90	4242.16	8407.07	1.27
12	73	-63.03	15.84	-423.76	-4242.16	-8311.27	-1.27
12	91	18.92	59.51	-424.62	-1.532e+04	2573.58	-2.80
13	2	4.53	0.75	-1690.28	1.306e+04	531.27	0.75
13	5	1.08	1.17	-486.76	2.023e+04	129.36	1.17
13	7	0.79	1.17	-359.73	2.023e+04	94.60	1.17
13	22	1.42	0.0	-578.54	0.0	167.67	0.0
13	23	0.94	0.14	-410.07	2389.97	111.41	0.14
13	26	3.15	0.50	-1183.31	8706.30	369.63	0.50
13	27	0.85	0.78	-380.96	1.349e+04	101.69	0.78
13	40	134.88	-57.33	-411.60	1.397e+04	1.775e+04	-5.42
13	63	38.08	112.90	-441.45	-2.787e+04	5196.35	-12.81
13	64	43.70	97.42	-401.85	2.416e+04	5579.79	18.91
13	65	-41.76	97.42	-444.98	-2.416e+04	-5348.06	-18.91
13	72	65.01	-22.77	-420.14	5529.86	8560.13	-1.14
13	95	19.67	55.71	-425.92	-1.367e+04	2614.08	-3.91
13	96	20.62	-51.72	-419.52	1.272e+04	2678.42	5.44
13	97	-18.67	51.72	-427.31	-1.272e+04	-2446.68	-5.44
14	2	-141.16	-0.46	-1289.96	1.070e+04	-9624.04	-2.31
14	5	-36.95	-0.72	-379.15	1.657e+04	-2522.07	-3.57
14	7	-27.15	-0.72	-280.54	1.657e+04	-1853.34	-3.57
14	22	-46.10	0.0	-446.13	0.0	-3144.54	0.0
14	23	-31.51	-0.08	-318.63	1957.73	-2150.36	-0.42
14	26	-98.46	-0.31	-903.80	7131.73	-6713.24	-1.54
14	27	-28.99	-0.48	-296.60	1.105e+04	-1978.59	-2.38
14	41	-134.37	95.18	-370.83	-2.478e+04	-1.754e+04	-21.92
14	47	67.76	95.18	-283.12	-2.478e+04	1.298e+04	-21.92
14	50	-133.10	-95.18	-374.34	2.478e+04	-1.744e+04	21.92
14	60	-0.22	-110.61	-321.41	2.724e+04	2524.59	-45.17
14	73	-81.11	39.53	-348.17	-1.000e+04	-9543.08	-7.30
14	79	15.57	39.53	-308.52	-1.000e+04	5067.93	-7.30
14	82	-80.91	-39.53	-348.93	1.000e+04	-9526.15	7.30
14	92	-17.83	-51.46	-324.05	1.287e+04	-9.23	-16.87

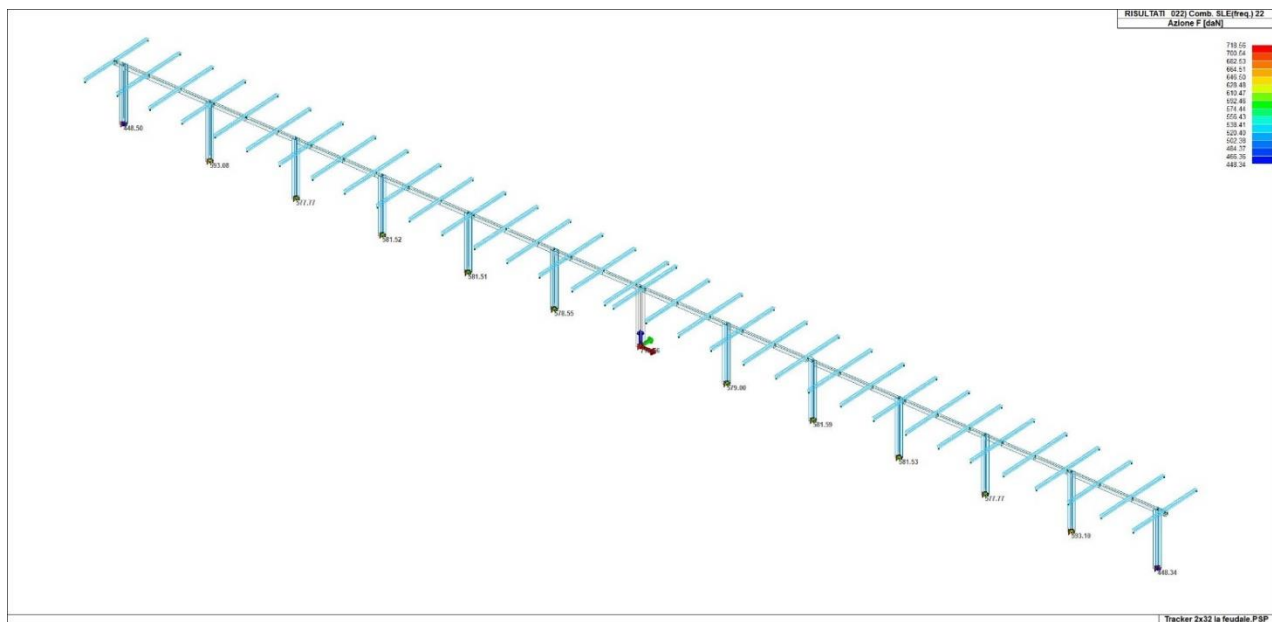
Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione
RZ	-141.16	-161.08	-2140.41	-4.232e+04	-1.805e+04	-45.28
	167.32	164.47	-279.54	4.190e+04	2.363e+04	45.47

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione
RZ		daN	daN	daN	daN cm	daN cm	daN cm
1	2	3.03	-1.28	-2140.41	1.790e+04	422.06	-0.04
	7	0.54	-1.98	-437.21	2.773e+04	75.81	-0.06
	61	-45.95	108.93	-533.74	-2.778e+04	-6705.80	-16.53
	60	47.28	-108.93	-504.44	2.778e+04	6891.11	16.53
	42	-165.99	-30.85	-515.44	8029.11	-2.345e+04	-28.89
	39	167.32	30.85	-522.74	-8029.11	2.363e+04	28.89
3	2	-0.40	0.96	-1691.70	1.302e+04	49.96	-0.59
	7	-0.05	1.49	-360.00	2.017e+04	9.57	-0.91
	57	-40.35	113.50	-427.34	-2.781e+04	-5285.99	13.03
	56	40.21	-113.50	-420.12	2.781e+04	5309.04	-13.03
	41	-133.37	5.96	-423.57	-1425.71	-1.758e+04	13.85
	40	133.23	-5.96	-423.89	1425.71	1.761e+04	-13.85
4	2	0.13	-0.38	-1700.75	1.366e+04	-353.82	0.09
	7	-0.22	-0.58	-361.26	2.116e+04	-82.72	0.14
	53	-38.61	130.85	-425.55	-3.375e+04	-5240.39	9.36
	52	38.21	-130.85	-425.22	3.375e+04	5049.29	-9.36
	42	-130.64	-18.88	-430.69	5451.83	-1.743e+04	0.49
	39	130.24	18.88	-420.08	-5451.83	1.724e+04	-0.49
5	2	-13.59	0.28	-1700.43	1.352e+04	-1406.98	0.13
	7	-2.26	0.44	-361.24	2.094e+04	-242.08	0.21
	55	36.12	136.27	-421.34	-3.649e+04	4884.84	9.37
	58	-41.76	-136.27	-429.34	3.649e+04	-5482.78	-9.37
	41	-133.55	33.84	-430.53	-8602.13	-1.766e+04	-6.09
	40	127.92	-33.84	-420.16	8602.13	1.706e+04	6.09
6	2	-5.39	-0.79	-1688.01	1.346e+04	-884.58	-0.15
	7	-1.04	-1.22	-359.25	2.084e+04	-167.11	-0.23
	51	37.51	164.47	-428.51	-4.232e+04	4969.80	6.22
	54	-40.00	-164.47	-417.17	4.232e+04	-5373.53	-6.22
	41	-131.67	14.37	-418.50	-3656.08	-1.754e+04	4.84
	40	129.17	-14.37	-427.18	3656.08	1.713e+04	-4.84
7	2	-20.50	1.06	-1736.12	1.327e+04	-2049.59	0.86
	7	-4.11	1.64	-367.96	2.055e+04	-402.98	1.33

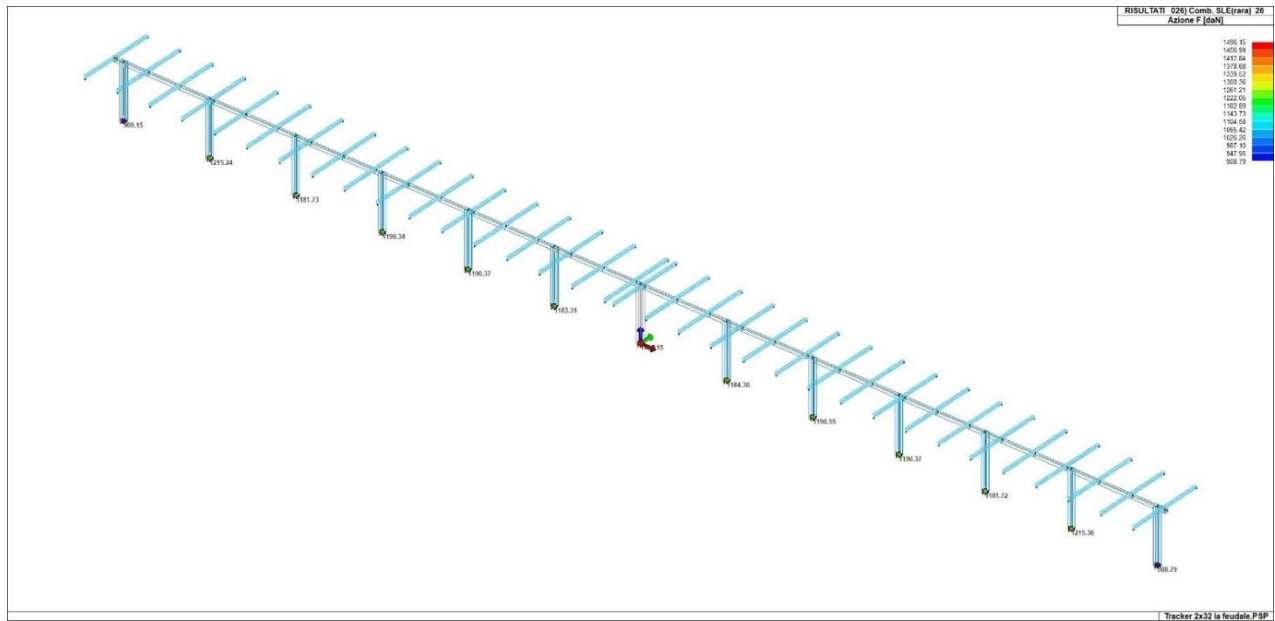
	55	35.28	152.09	-427.66	-3.802e+04	4793.10	39.17
	58	-45.07	-152.09	-439.28	3.802e+04	-5757.99	-39.17
	41	-138.25	75.24	-446.48	-1.920e+04	-1.805e+04	26.54
	40	128.45	-75.24	-420.46	1.920e+04	1.708e+04	-26.54
8	2	140.06	-0.46	-1289.56	1.070e+04	9459.83	2.31
	41	-68.34	-52.40	-279.54	1.493e+04	-1.299e+04	-45.28
	57	2.00	118.96	-311.75	-2.834e+04	-2380.39	-45.47
	56	62.86	-118.96	-345.53	2.834e+04	6766.90	45.47
	41	-68.34	-52.40	-279.54	1.493e+04	-1.299e+04	-45.28
	40	133.19	52.40	-377.74	-1.493e+04	1.738e+04	45.28
9	2	19.05	1.06	-1736.06	1.327e+04	1859.54	-0.86
	7	3.85	1.64	-367.95	2.055e+04	369.09	-1.33
	59	44.06	149.74	-441.58	-3.775e+04	5701.85	-39.27
	62	-34.90	-149.74	-425.33	3.775e+04	-4819.95	39.27
	41	-130.12	-12.66	-421.38	4276.23	-1.725e+04	12.12
	40	139.28	12.66	-445.53	-4276.23	1.813e+04	-12.12
10	2	3.95	-0.78	-1688.03	1.345e+04	693.50	0.15
	7	0.78	-1.20	-359.25	2.084e+04	133.03	0.23
	61	-39.42	161.08	-416.99	-4.190e+04	-5139.81	-5.94
	60	41.29	-161.08	-428.70	4.190e+04	5460.10	5.94
	41	-130.54	62.89	-426.12	-1.550e+04	-1.730e+04	4.23
	40	132.41	-62.89	-419.57	1.550e+04	1.762e+04	-4.23
11	2	12.13	0.19	-1700.40	1.354e+04	1211.66	-0.16
	7	2.00	0.30	-361.23	2.097e+04	207.31	-0.25
	59	41.35	133.73	-438.50	-3.626e+04	5448.64	-9.36
	62	-36.36	-133.73	-412.17	3.626e+04	-4935.88	9.36
	41	-129.15	32.99	-421.62	-8916.16	-1.722e+04	-6.61
	40	134.14	-32.99	-429.05	8916.16	1.773e+04	6.61
12	2	-1.84	-0.16	-1700.48	1.362e+04	137.82	0.08
	7	-0.09	-0.25	-361.22	2.109e+04	43.68	0.12
	59	40.62	128.74	-420.15	-3.376e+04	5381.77	-9.12
	62	-40.97	-128.74	-430.52	3.376e+04	-5285.96	9.12
	42	-131.76	-48.54	-422.81	1.224e+04	-1.742e+04	0.46
	39	131.40	48.54	-427.86	-1.224e+04	1.752e+04	-0.46
13	2	4.53	0.75	-1690.28	1.306e+04	531.27	0.75
	7	0.79	1.17	-359.73	2.023e+04	94.60	1.17
	63	38.08	112.90	-441.45	-2.787e+04	5196.35	-12.81
	66	-36.14	-112.90	-405.37	2.787e+04	-4964.61	12.81
	41	-132.94	57.33	-435.23	-1.397e+04	-1.752e+04	5.42
	40	134.88	-57.33	-411.60	1.397e+04	1.775e+04	-5.42
14	2	-141.16	-0.46	-1289.96	1.070e+04	-9624.04	-2.31
	7	-27.15	-0.72	-280.54	1.657e+04	-1853.34	-3.57
	61	-65.11	110.61	-336.04	-2.724e+04	-6982.80	45.17
	60	-0.22	-110.61	-321.41	2.724e+04	2524.59	-45.17
	41	-134.37	95.18	-370.83	-2.478e+04	-1.754e+04	-21.92
	40	69.04	-95.18	-286.62	2.478e+04	1.308e+04	21.92



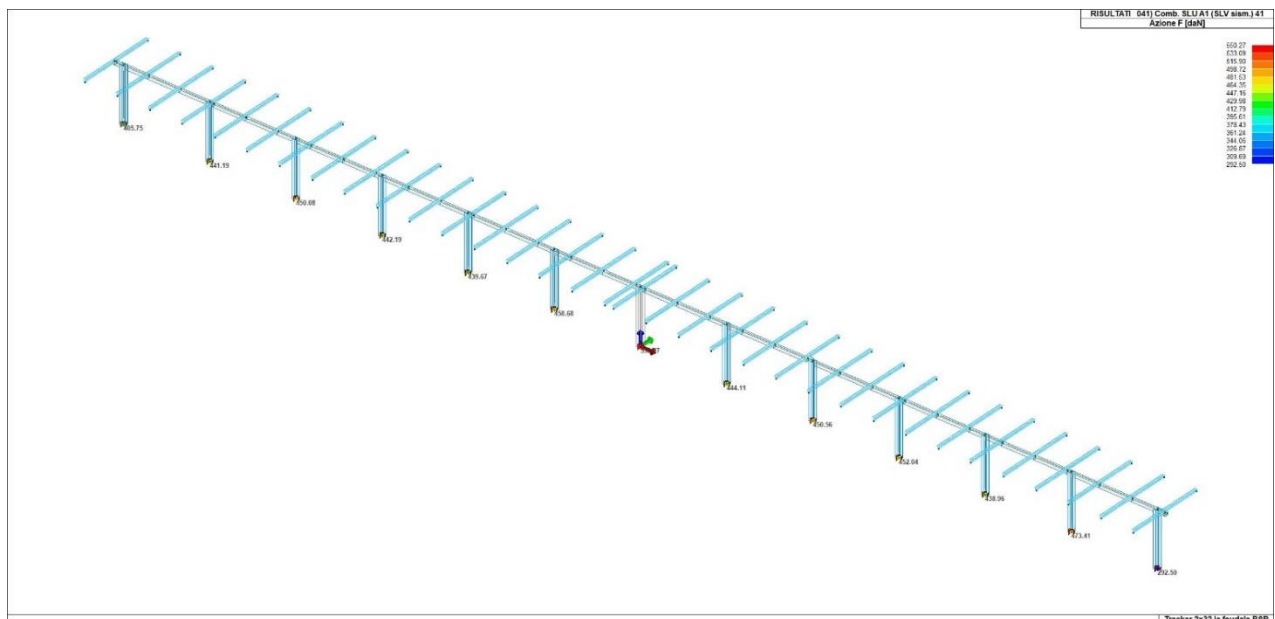
42_RIS_REAZIONI_002_Comb. SLU A1 2



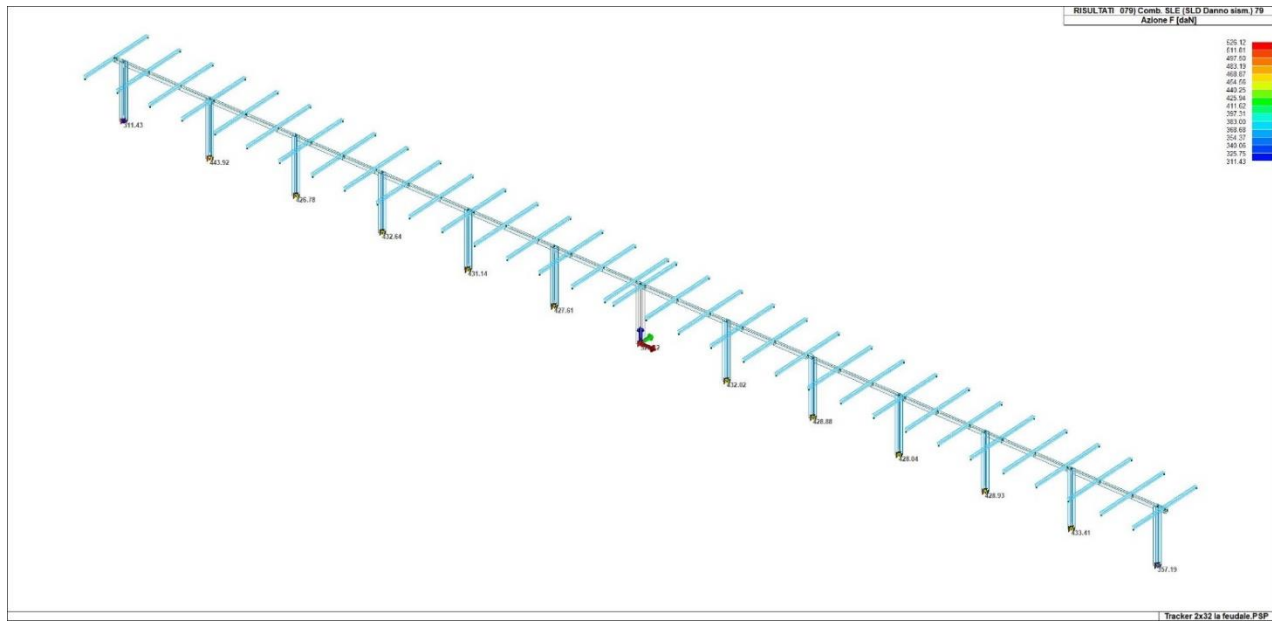
42_RIS_REAZIONI_022_Comb. SLE(freq.) 22



42_RIS_REAZIONI_026_Comb. SLE(rara) 26



42_RIS_REAZIONI_041_Comb. SLU A1 (SLV sism.) 41



42_RIS_REAZIONI_079_Comb. SLE (SLD Danno sism.) 79

23. RISULTATI ELEMENTI TIPO TRAVE

23.1. LEGENDA RISULTATI ELEMENTI TIPO TRAVE

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

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

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

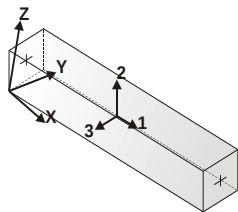
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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

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

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

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



orientamento elementi 2D
non verticali



orientamento elementi 2D
verticali

Pilas. M 3	Cmb M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	TM	2
daN cm	daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cmdaN	cm
1	2	1.790e+04	422.06	0.06	0.0	0.0	-2140.41	-1.28	-3.03	-0.04 422.06
1.790e+04		1.761e+04	-254.25	1.74e-03	0.0	223.0	-2017.97	-1.28	-3.03	-0.04 -254.25
1.761e+04	5	2.773e+04	103.60	0.09	0.0	0.0	-592.94	-1.98	-0.74	-0.06 103.60
2.773e+04		2.728e+04	-62.45	4.28e-04	0.0	223.0	-470.50	-1.98	-0.74	-0.06 -62.45
2.728e+04	7	2.773e+04	75.81	0.09	0.0	0.0	-437.21	-1.98	-0.54	-0.06 75.81
2.773e+04		2.728e+04	-45.70	3.13e-04	0.0	223.0	-343.03	-1.98	-0.54	-0.06 -45.70
2.728e+04	22	0.0	133.70	0.0	0.0	0.0	-718.55	0.0	-0.96	0.0 133.70
1		0.0	-80.57	5.52e-04	0.0	223.0	-624.37	0.0	-0.96	0.0 -80.57
0.0	23	3275.82	89.12	0.01	0.0	0.0	-501.93	-0.23	-0.64	-7.20e-03 89.12
3275.82		3223.54	-53.72	3.68e-04	0.0	223.0	-407.75	-0.23	-0.64	-7.20e-03 -53.72
3223.54	25	1.193e+04	88.48	0.04	0.0	0.0	-498.82	-0.85	-0.64	-0.03 88.48
1.193e+04		1.174e+04	-53.33	3.65e-04	0.0	223.0	-404.64	-0.85	-0.64	-0.03 -53.33
1.174e+04	26	1.193e+04	293.73	0.04	0.0	0.0	-1496.15	-0.85	-2.11	-0.03 293.73
1.193e+04		1.174e+04	-176.95	1.21e-03	0.0	223.0	-1401.97	-0.85	-2.11	-0.03 -176.95
1.174e+04	27	1.848e+04	81.42	0.06	0.0	0.0	-464.50	-1.32	-0.59	-0.04 81.42
1.848e+04		1.819e+04	-49.08	3.36e-04	0.0	223.0	-370.32	-1.32	-0.59	-0.04 -49.08
1.819e+04	40	8587.27	2.363e+04	0.02	0.0	0.0	-514.07	-34.20	-165.46	33.21 2.363e+04
8587.27		3319.70	-1.341e+04	0.10	0.0	223.0	-419.89	-34.20	-165.46	33.21 -1.341e+04
3319.70	41	-3319.70	1.330e+04	-0.02	0.0	0.0	-524.11	34.20	164.13	-33.21 -2.345e+04 -
8587.27		-8587.27	-2.345e+04	-0.10	0.0	223.0	-429.93	34.20	164.13	-33.21 1.330e+04 -
3319.70	60	2.778e+04	7374.73	0.07	0.0	0.0	-504.44	-108.93	-47.28	16.53 7374.73
2.778e+04		1.068e+04	-3653.88	0.03	0.0	223.0	-410.26	-108.93	-47.28	16.53 -3653.88
1.068e+04	61	-1.068e+04	3542.19	-0.07	0.0	0.0	-533.74	108.93	45.95	-16.53 -7189.42 -
2.778e+04		-2.778e+04	-7189.42	-0.03	0.0	223.0	-439.56	108.93	45.95	-16.53 3542.19 -
1.068e+04	72	4332.39	1.136e+04	0.01	0.0	0.0	-518.31	-17.02	-79.96	9.25 1.136e+04
4332.39		1650.58	-6496.66	0.05	0.0	223.0	-424.13	-17.02	-79.96	9.25 -6496.66
1650.58	73	-1650.58	6384.96	-0.01	0.0	0.0	-519.87	17.02	78.63	-9.25 -1.117e+04 -
4332.39		-4332.39	-1.117e+04	-0.05	0.0	223.0	-425.69	17.02	78.63	-9.25 6384.96 -
1650.58	92	1.435e+04	3506.23	0.03	0.0	0.0	-516.76	-56.34	-24.02	4.23 3506.23
1.435e+04		5458.55	-1925.41	0.01	0.0	223.0	-422.58	-56.34	-24.02	4.23 -1925.41
5458.55	93	-5458.55	1813.72	-0.03	0.0	0.0	-521.42	56.34	22.69	-4.23 -3320.92 -
1.435e+04		-1.435e+04	-3320.92	-0.01	0.0	223.0	-427.24	56.34	22.69	-4.23 1813.72 -
5458.55	2	1.323e+04	139.13	0.06	0.0	0.0	-1691.70	0.96	0.40	-0.59 49.96
1.302e+04		1.302e+04	49.96	1.02e-03	0.0	223.0	-1588.61	0.96	0.40	-0.59 139.13
1.323e+04	2	5	2.050e+04	29.47	0.10	0.0	-487.11	1.49	0.07	-0.91 13.03

2.017e+04		2.017e+04	13.03	2.37e-04	0.0	223.0	-384.02	1.49	0.07	-0.91	29.47
2.050e+04	7	2.050e+04	21.33	0.10	0.0	0.0	-360.00	1.49	0.05	-0.91	9.57
2.017e+04		2.017e+04	9.57	1.73e-04	0.0	223.0	-280.70	1.49	0.05	-0.91	21.33
2.050e+04	22	0.0	41.27	0.0	0.0	0.0	-579.00	0.0	0.11	0.0	16.29
0.0		0.0	16.29	3.15e-04	0.0	223.0	-499.70	0.0	0.11	0.0	41.27
2382.49	23	2421.71	25.92	0.01	0.0	0.0	-410.37	0.18	0.07	-0.11	11.12
2421.71		2382.49	11.12	2.05e-04	0.0	223.0	-331.07	0.18	0.07	-0.11	25.92
8679.07	26	8821.94	96.37	0.04	0.0	0.0	-1184.30	0.64	0.28	-0.39	34.84
8821.94		8679.07	34.84	7.09e-04	0.0	223.0	-1105.00	0.64	0.28	-0.39	96.37
1.344e+04	27	1.367e+04	23.26	0.06	0.0	0.0	-381.24	0.99	0.06	-0.61	10.22
1.367e+04		1.344e+04	10.22	1.87e-04	0.0	223.0	-301.94	0.99	0.06	-0.61	23.26
1425.71	40	1425.71	1.761e+04	5.72e-03	0.0	0.0	-423.89	-5.96	-133.23	-13.85	1.761e+04
1955.32		-1955.32	-1.211e+04	0.10	0.0	223.0	-344.59	-5.96	-133.23	-13.85	-1.211e+04
1425.71	41	1955.32	1.216e+04	-5.72e-03	0.0	0.0	-423.57	5.96	133.37	13.85	-1.758e+04
1955.32		-1425.71	-1.758e+04	-0.10	0.0	223.0	-344.27	5.96	133.37	13.85	1.216e+04
2.781e+04	51	1.018e+04	5249.65	-0.10	0.0	0.0	-430.85	113.50	-39.36	13.03	5249.65
1.018e+04		-2.781e+04	-3526.93	0.03	0.0	223.0	-351.55	113.50	-39.36	13.03	-3526.93
2.781e+04	54	2.781e+04	3581.19	0.10	0.0	0.0	-416.61	-113.50	39.50	-13.03	-5226.60
1.018e+04		-1.018e+04	-5226.60	-0.03	0.0	223.0	-337.31	-113.50	39.50	-13.03	3581.19
2.707e+04	59	1.013e+04	5161.96	-0.09	0.0	0.0	-444.45	113.17	-38.28	8.94	5161.96
1.013e+04		-2.707e+04	-3373.48	0.03	0.0	223.0	-365.15	113.17	-38.28	8.94	-3373.48
2.707e+04	62	2.707e+04	3427.75	0.09	0.0	0.0	-403.01	-113.17	38.42	-8.94	-5138.91
1.013e+04		-1.013e+04	-5138.91	-0.03	0.0	223.0	-323.71	-113.17	38.42	-8.94	3427.75
2011.29	72	2011.29	8445.40	7.14e-03	0.0	0.0	-425.32	-8.27	-63.81	-3.50	8445.40
1166.07		-1166.07	-5783.48	0.05	0.0	223.0	-346.02	-8.27	-63.81	-3.50	-5783.48
2011.29	73	1166.07	5837.74	-7.14e-03	0.0	0.0	-422.14	8.27	63.95	3.50	-8422.35
1166.07		-2011.29	-8422.35	-0.05	0.0	223.0	-342.84	8.27	63.95	3.50	5837.74
1.363e+04	83	4980.34	2534.66	-0.05	0.0	0.0	-425.60	55.64	-18.99	3.94	2534.66
4980.34		-1.363e+04	-1700.40	0.01	0.0	223.0	-346.30	55.64	-18.99	3.94	-1700.40
1.363e+04	86	1.363e+04	1754.67	0.05	0.0	0.0	-421.87	-55.64	19.13	-3.94	-2511.61
4980.34		-4980.34	-2511.61	-0.01	0.0	223.0	-342.57	-55.64	19.13	-3.94	1754.67
1.233e+04	91	4689.28	2518.26	-0.04	0.0	0.0	-427.66	51.50	-18.78	2.40	2518.26
4689.28		-1.233e+04	-1670.34	0.01	0.0	223.0	-348.36	51.50	-18.78	2.40	-1670.34
1.233e+04	94	1.233e+04	1724.61	0.04	0.0	0.0	-419.80	-51.50	18.92	-2.40	-2495.21
4689.28		-4689.28	-2495.21	-0.01	0.0	223.0	-340.50	-51.50	18.92	-2.40	1724.61
1.366e+04	2	1.366e+04	-353.82	0.06	0.0	0.0	-1700.75	-0.38	-0.13	0.09	-353.82
1.357e+04		1.357e+04	-383.32	-4.65e-03	0.0	223.0	-1597.66	-0.38	-0.13	0.09	-383.32

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3	5	2.116e+04	-48.41	0.10	0.0	0.0	-488.88	-0.58	0.28	0.14	-111.39
2.116e+04		2.103e+04	-111.39	-1.16e-03	0.0	223.0	-385.79	-0.58	0.28	0.14	-48.41
2.103e+04	3	7 2.116e+04	-33.15	0.10	0.0	0.0	-361.26	-0.58	0.22	0.14	-82.72
2.116e+04		2.103e+04	-82.72	-8.47e-04	0.0	223.0	-281.96	-0.58	0.22	0.14	-33.15
2.103e+04	3	22	0.0	-94.04	0.0	0.0	-581.59	0.0	0.15	0.0	-126.80
0.0			0.0	-126.80	-1.48e-03	0.0	223.0	-502.29	0.0	0.15	0.0
0.0	3	23	2499.63	-47.16	0.01	0.0	0.0	-411.95	-0.07	0.20	0.02
2499.63			2484.27	-92.86	-9.94e-04	0.0	223.0	-332.65	-0.07	0.20	0.02
2484.27	3	25	9105.79	-46.48	0.04	0.0	0.0	-409.51	-0.25	0.21	0.06
9105.79			9049.85	-92.37	-9.87e-04	0.0	223.0	-330.21	-0.25	0.21	0.06
9049.85	3	26	9105.79	-248.62	0.04	0.0	0.0	-1190.55	-0.25	-0.06	0.06
9105.79			9049.85	-262.33	-3.24e-03	0.0	223.0	-1111.25	-0.25	-0.06	0.06
9049.85	3	27	1.411e+04	-39.06	0.07	0.0	0.0	-382.64	-0.39	0.21	0.09
1.411e+04			1.402e+04	-87.00	-9.09e-04	0.0	223.0	-303.34	-0.39	0.21	0.09
1.402e+04	3	39	1953.85	1.724e+04	-0.02	0.0	0.0	-420.08	18.88	-130.24	-0.49
5451.83			-5451.83	-1.180e+04	0.10	0.0	223.0	-340.78	18.88	-130.24	-0.49
1953.85	3	42	5451.83	1.170e+04	0.02	0.0	0.0	-430.69	-18.88	130.64	0.49
5451.83			-1953.85	-1.743e+04	-0.10	0.0	223.0	-351.39	-18.88	130.64	0.49
1953.85	3	52	3.375e+04	5049.29	0.12	0.0	0.0	-425.22	-130.85	-38.21	-9.36
3.375e+04			-1.165e+04	-3471.37	0.03	0.0	223.0	-345.92	-130.85	-38.21	-9.36
1.165e+04	3	53	1.165e+04	3369.63	-0.12	0.0	0.0	-425.55	130.85	38.61	9.36
3.375e+04			-3.375e+04	-5240.39	-0.03	0.0	223.0	-346.25	130.85	38.61	9.36
1.165e+04	3	71	1137.82	8205.58	-0.01	0.0	0.0	-424.06	11.98	-62.21	-0.47
3139.12			-3139.12	-5666.58	0.05	0.0	223.0	-344.76	11.98	-62.21	-0.47
1137.82	3	74	3139.12	5564.84	0.01	0.0	0.0	-426.71	-11.98	62.61	0.47
3139.12			-1137.82	-8396.68	-0.05	0.0	223.0	-347.41	-11.98	62.61	0.47
1137.82	3	84	1.533e+04	2385.57	0.05	0.0	0.0	-425.23	-59.82	-18.40	-2.87
1.533e+04			-5271.48	-1718.43	0.01	0.0	223.0	-345.93	-59.82	-18.40	-2.87
5271.48	3	85	5271.48	1616.69	-0.05	0.0	0.0	-425.54	59.82	18.80	2.87
1.533e+04			-1.533e+04	-2576.67	-0.02	0.0	223.0	-346.24	59.82	18.80	2.87
5271.48	4	1	1.358e+04	403.21	0.06	0.0	0.0	-529.14	0.28	3.46	0.13
1.352e+04			1.352e+04	-367.54	-1.43e-03	0.0	223.0	-426.05	0.28	3.46	0.13
1.358e+04	4	2	1.358e+04	1624.33	0.06	0.0	0.0	-1700.43	0.28	13.59	0.13
1.352e+04			1.352e+04	-1406.98	-5.16e-03	0.0	223.0	-1597.34	0.28	13.59	0.13
1.358e+04	4	5	2.104e+04	361.19	0.10	0.0	0.0	-488.84	0.44	3.11	0.21
2.094e+04			2.094e+04	-331.77	-1.30e-03	0.0	223.0	-385.75	0.44	3.11	0.21
2.104e+04	4	7	2.104e+04	262.42	0.10	0.0	0.0	-361.24	0.44	2.26	0.21
2.094e+04			2.094e+04	-242.08	-9.50e-04	0.0	223.0	-281.94	0.44	2.26	0.21

2.104e+04 4 0.0	22	0.0	492.07	0.0	0.0	0.0	-581.51	0.0	4.17	0.0	-437.56
		0.0	-437.56	-1.65e-03	0.0	223.0	-502.21	0.0	4.17	0.0	492.07
0.0 4 2474.22	23	2485.75	315.24	0.01	0.0	0.0	-411.91	0.05	2.70	0.02	-287.05
		2474.22	-287.05	-1.11e-03	0.0	223.0	-332.61	0.05	2.70	0.02	315.24
2485.75 4 9013.24	25	9055.24	312.71	0.04	0.0	0.0	-409.47	0.19	2.68	0.09	-284.89
		9013.24	-284.89	-1.10e-03	0.0	223.0	-330.17	0.19	2.68	0.09	312.71
9055.24 4 9013.24	26	9055.24	1126.79	0.04	0.0	0.0	-1190.33	0.19	9.44	0.09	-977.85
		9013.24	-977.85	-3.60e-03	0.0	223.0	-1111.03	0.19	9.44	0.09	1126.79
9055.24 4 1.396e+04	27	1.403e+04	284.69	0.07	0.0	0.0	-382.60	0.29	2.45	0.14	-261.05
		1.396e+04	-261.05	-1.02e-03	0.0	223.0	-303.30	0.29	2.45	0.14	284.69
1.403e+04 4 5013.50	39	-3909.17	1.703e+04	-0.02	0.0	0.0	-417.06	20.61	-127.60	0.76	1.703e+04 -
		-5013.50	-1.142e+04	0.10	0.0	223.0	-337.76	20.61	-127.60	0.76	-1.142e+04 -
3909.17 4 8602.13	40	8602.13	1.706e+04	0.03	0.0	0.0	-420.16	-33.84	-127.92	6.09	1.706e+04
		1964.01	-1.147e+04	0.10	0.0	223.0	-340.86	-33.84	-127.92	6.09	-1.147e+04
1964.01 4 8602.13	41	-1964.01	1.213e+04	-0.03	0.0	0.0	-430.53	33.84	133.55	-6.09	-1.766e+04 -
		-8602.13	-1.766e+04	-0.10	0.0	223.0	-351.23	33.84	133.55	-6.09	1.213e+04 -
1964.01 4 5013.50	42	5013.50	1.208e+04	0.02	0.0	0.0	-433.62	-20.61	133.24	-0.76	-1.763e+04
		3909.17	-1.763e+04	-0.10	0.0	223.0	-354.32	-20.61	133.24	-0.76	1.208e+04
3909.17 4 3.649e+04	52	3.649e+04	4923.59	0.13	0.0	0.0	-425.30	-136.27	-36.59	-9.37	4923.59
		1.227e+04	-3236.74	0.03	0.0	223.0	-346.00	-136.27	-36.59	-9.37	-3236.74
1.227e+04 4 3.649e+04	53	-1.227e+04	3895.24	-0.13	0.0	0.0	-425.38	136.27	42.22	9.37	-5521.53 -
		-3.649e+04	-5521.53	-0.03	0.0	223.0	-346.08	136.27	42.22	9.37	3895.24 -
1.227e+04 4 2737.13	71	-1490.13	8014.29	-9.36e-03	0.0	0.0	-423.62	11.54	-59.77	-0.26	8014.29 -
		-2737.13	-5315.28	0.05	0.0	223.0	-344.32	11.54	-59.77	-0.26	-5315.28 -
1490.13 4 3527.20	72	3527.20	8019.05	0.01	0.0	0.0	-424.14	-13.93	-59.83	1.21	8019.05
		1092.13	-5322.78	0.05	0.0	223.0	-344.84	-13.93	-59.83	1.21	-5322.78
1092.13 4 3527.20	73	-1092.13	5981.28	-0.01	0.0	0.0	-426.55	13.93	65.46	-1.21	-8617.00 -
		-3527.20	-8617.00	-0.05	0.0	223.0	-347.25	13.93	65.46	-1.21	5981.28 -
1092.13 4 2737.13	74	2737.13	5973.78	9.36e-03	0.0	0.0	-427.06	-11.54	65.41	0.26	-8612.23
		1490.13	-8612.23	-0.05	0.0	223.0	-347.76	-11.54	65.41	0.26	5973.78
1490.13 4 1.608e+04	84	1.608e+04	2199.19	0.06	0.0	0.0	-425.20	-61.79	-16.01	-2.66	2199.19
		5469.27	-1370.87	0.01	0.0	223.0	-345.90	-61.79	-16.01	-2.66	-1370.87
5469.27 4 1.608e+04	85	-5469.27	2029.37	-0.06	0.0	0.0	-425.48	61.79	21.64	2.66	-2797.13 -
		-1.608e+04	-2797.13	-0.02	0.0	223.0	-346.18	61.79	21.64	2.66	2029.37 -
5469.27 5 1.346e+04	1	1.346e+04	95.04	0.06	0.0	0.0	-526.08	-0.79	1.55	-0.15	-249.52
		1.328e+04	-249.52	-1.72e-03	0.0	223.0	-422.99	-0.79	1.55	-0.15	95.04
1.328e+04 5 1.346e+04	2	1.346e+04	316.70	0.06	0.0	0.0	-1688.01	-0.79	5.39	-0.15	-884.58

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1.328e+04	1.328e+04	-884.58	-6.20e-03	0.0	223.0	-1584.92	-0.79	5.39	-0.15	316.70	
5	5 2.084e+04	87.42	0.10	0.0	0.0	-486.10	-1.22	1.41	-0.23	-227.67	
2.084e+04	2.057e+04	-227.67	-1.57e-03	0.0	223.0	-383.01	-1.22	1.41	-0.23	87.42	
2.057e+04	5 7 2.084e+04	64.44	0.10	0.0	0.0	-359.25	-1.22	1.04	-0.23	-167.11	
2.084e+04	2.057e+04	-167.11	-1.15e-03	0.0	223.0	-279.95	-1.22	1.04	-0.23	64.44	
2.057e+04	5 21 0.0	76.58	0.0	0.0	0.0	-422.84	0.0	1.25	0.0	-201.87	
0.0	0.0	-201.87	-1.40e-03	0.0	223.0	-343.54	0.0	1.25	0.0	76.58	
0.0	5 22 0.0	106.13	0.0	0.0	0.0	-577.76	0.0	1.76	0.0	-286.54	
0.0	0.0	-286.54	-1.99e-03	0.0	223.0	-498.46	0.0	1.76	0.0	106.13	
0.0	5 23 2462.52	74.03	0.01	0.0	0.0	-409.51	-0.14	1.20	-0.03	-194.58	
2462.52	2430.42	-194.58	-1.34e-03	0.0	223.0	-330.21	-0.14	1.20	-0.03	74.03	
2430.42	5 25 8970.59	73.57	0.04	0.0	0.0	-407.10	-0.52	1.20	-0.10	-193.26	
8970.59	8853.68	-193.26	-1.34e-03	0.0	223.0	-327.80	-0.52	1.20	-0.10	73.57	
8853.68	5 26 8970.59	221.34	0.04	0.0	0.0	-1181.72	-0.52	3.76	-0.10	-616.64	
8970.59	8853.68	-616.64	-4.32e-03	0.0	223.0	-1102.42	-0.52	3.76	-0.10	221.34	
8853.68	5 27 1.390e+04	68.49	0.07	0.0	0.0	-380.45	-0.81	1.11	-0.15	-178.70	
1.390e+04	1.371e+04	-178.70	-1.23e-03	0.0	223.0	-301.15	-0.81	1.11	-0.15	68.49	
1.371e+04	5 40 4793.93	1.713e+04	0.01	0.0	0.0	-427.18	-14.37	-129.17	-4.84	1.713e+04	
3656.08	3656.08	-1.167e+04	0.10	0.0	223.0	-347.88	-14.37	-129.17	-4.84	-1.167e+04	
4793.93	5 41 -3656.08	1.183e+04	-0.01	0.0	0.0	-418.50	14.37	131.67	4.84	-1.754e+04 -	
3656.08	-4793.93	-1.754e+04	-0.10	0.0	223.0	-339.20	14.37	131.67	4.84	1.183e+04 -	
4793.93	5 51 -1.202e+04	4969.80	-0.15	0.0	0.0	-428.51	164.47	-37.51	6.22	4969.80 -	
4.232e+04	-4.232e+04	-3394.16	0.03	0.0	223.0	-349.21	164.47	-37.51	6.22	-3394.16 -	
1.202e+04	5 54 4.232e+04	3547.31	0.15	0.0	0.0	-417.17	-164.47	40.00	-6.22	-5373.53	
4.232e+04	1.202e+04	-5373.53	-0.03	0.0	223.0	-337.87	-164.47	40.00	-6.22	3547.31	
1.202e+04	5 59 -8176.35	4951.54	-0.08	0.0	0.0	-432.61	105.92	-37.32	-7.73	4951.54 -	
2.384e+04	-2.384e+04	-3369.32	0.03	0.0	223.0	-353.31	105.92	-37.32	-7.73	-3369.32 -	
8176.35	5 62 2.384e+04	3522.48	0.08	0.0	0.0	-413.07	-105.92	39.81	7.73	-5355.28	
2.384e+04	8176.35	-5355.28	-0.03	0.0	223.0	-333.77	-105.92	39.81	7.73	3522.48	
8176.35	5 72 2441.88	8095.89	8.21e-03	0.0	0.0	-423.48	-9.58	-61.13	-0.85	8095.89	
2441.88	1736.29	-5535.58	0.05	0.0	223.0	-344.18	-9.58	-61.13	-0.85	-5535.58	
1736.29	5 73 -1736.29	5688.73	-8.21e-03	0.0	0.0	-422.21	9.58	63.62	0.85	-8499.63 -	
2441.88	-2441.88	-8499.63	-0.05	0.0	223.0	-342.91	9.58	63.62	0.85	5688.73 -	
1736.29	5 83 -5627.73	2282.96	-0.06	0.0	0.0	-423.94	69.36	-17.41	2.18	2282.96 -	
1.766e+04	-1.766e+04	-1599.25	0.01	0.0	223.0	-344.64	69.36	-17.41	2.18	-1599.25 -	
5627.73	5 86 1.766e+04	1752.40	0.06	0.0	0.0	-421.75	-69.36	19.91	-2.18	-2686.69	
1.766e+04	5627.73	-2686.69	-0.02	0.0	223.0	-342.45	-69.36	19.91	-2.18	1752.40	
5627.73	5 91 -3887.69	2278.22	-0.04	0.0	0.0	-424.80	44.50	-17.37	-1.81	2278.22 -	

1.032e+04			-1.032e+04	-1594.26	0.01	0.0	223.0	-345.50	44.50	-17.37	-1.81	-1594.26	-
3887.69	5	94	1.032e+04	1747.41	0.04	0.0	0.0	-420.88	-44.50	19.86	1.81	-2681.95	
1.032e+04			3887.69	-2681.95	-0.02	0.0	223.0	-341.58	-44.50	19.86	1.81	1747.41	
3887.69	6	1	1.350e+04	757.21	0.06	0.0	0.0	-539.19	1.06	6.08	0.86	-597.67	
1.327e+04			1.327e+04	-597.67	-1.98e-03	0.0	223.0	-436.10	1.06	6.08	0.86	757.21	
1.350e+04	6	2	1.350e+04	2521.81	0.06	0.0	0.0	-1736.12	1.06	20.50	0.86	-2049.59	
1.327e+04			1.327e+04	-2049.59	-7.01e-03	0.0	223.0	-1633.03	1.06	20.50	0.86	2521.81	
1.350e+04	6	5	2.092e+04	696.49	0.10	0.0	0.0	-498.00	1.64	5.58	1.33	-547.71	
2.055e+04			2.055e+04	-547.71	-1.81e-03	0.0	223.0	-394.91	1.64	5.58	1.33	696.49	
2.092e+04	6	7	2.092e+04	513.47	0.10	0.0	0.0	-367.96	1.64	4.11	1.33	-402.98	
2.055e+04			2.055e+04	-402.98	-1.33e-03	0.0	223.0	-288.66	1.64	4.11	1.33	513.47	
2.092e+04	6	21	0.0	610.05	0.0	0.0	0.0	-433.47	0.0	4.90	0.0	-482.44	
0.0			0.0	-482.44	-1.60e-03	0.0	223.0	-354.17	0.0	4.90	0.0	610.05	
0.0	6	22	0.0	845.33	0.0	0.0	0.0	-593.06	0.0	6.82	0.0	-676.03	
0.0			0.0	-676.03	-2.27e-03	0.0	223.0	-513.76	0.0	6.82	0.0	845.33	
0.0	6	23	2471.20	589.81	0.01	0.0	0.0	-419.74	0.19	4.73	0.16	-465.79	
2428.09			2428.09	-465.79	-1.54e-03	0.0	223.0	-340.44	0.19	4.73	0.16	589.81	
2471.20	6	25	9002.21	586.14	0.04	0.0	0.0	-417.25	0.70	4.70	0.57	-462.77	
8845.18			8845.18	-462.77	-1.53e-03	0.0	223.0	-337.95	0.70	4.70	0.57	586.14	
9002.21	6	26	9002.21	1762.54	0.04	0.0	0.0	-1215.21	0.70	14.32	0.57	-1430.72	
8845.18			8845.18	-1430.72	-4.89e-03	0.0	223.0	-1135.91	0.70	14.32	0.57	1762.54	
9002.21	6	27	1.394e+04	545.67	0.07	0.0	0.0	-389.80	1.09	4.37	0.89	-429.47	
1.370e+04			1.370e+04	-429.47	-1.42e-03	0.0	223.0	-310.50	1.09	4.37	0.89	545.67	
1.394e+04	6	39	9238.27	1.706e+04	0.03	0.0	0.0	-418.37	-29.79	-128.76	-17.06	1.706e+04	
9238.27			-1735.24	-1.164e+04	0.10	0.0	223.0	-339.07	-29.79	-128.76	-17.06	-1.164e+04	-
1735.24	6	40	1.920e+04	1.708e+04	0.07	0.0	0.0	-420.46	-75.24	-128.45	-26.54	1.708e+04	
1.920e+04			-6079.39	-1.159e+04	0.10	0.0	223.0	-341.16	-75.24	-128.45	-26.54	-1.159e+04	-
6079.39	6	41	6079.39	1.281e+04	-0.07	0.0	0.0	-446.48	75.24	138.25	26.54	-1.805e+04	-
1.920e+04			-1.920e+04	-1.805e+04	-0.10	0.0	223.0	-367.18	75.24	138.25	26.54	1.281e+04	
6079.39	6	42	1735.24	1.286e+04	-0.03	0.0	0.0	-448.57	29.79	138.56	17.06	-1.803e+04	-
9238.27			-9238.27	-1.803e+04	-0.10	0.0	223.0	-369.27	29.79	138.56	17.06	1.286e+04	
1735.24	6	52	3.802e+04	4774.79	0.13	0.0	0.0	-430.85	-152.09	-35.03	-39.17	4774.79	
3.802e+04			-1.130e+04	-3037.15	0.03	0.0	223.0	-351.55	-152.09	-35.03	-39.17	-3037.15	-
1.130e+04	6	53	1.130e+04	4257.25	-0.13	0.0	0.0	-436.09	152.09	44.83	39.17	-5739.67	-
3.802e+04			-3.802e+04	-5739.67	-0.03	0.0	223.0	-356.79	152.09	44.83	39.17	4257.25	
1.130e+04	6	71	1118.48	7942.97	4.08e-03	0.0	0.0	-428.54	-3.01	-59.31	-4.56	7942.97	
1118.48			-135.11	-5281.71	0.05	0.0	223.0	-349.24	-3.01	-59.31	-4.56	-5281.71	-
135.11													

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture				PAGE 155 di/of 308	
6	72	6340.92	7945.57	0.02	0.0	0.0	-428.88	-26.05	-59.26	-7.22	7945.57		
6340.92		-2278.78	-5272.86	0.05	0.0	223.0	-349.58	-26.05	-59.26	-7.22	-5272.86	-	
2278.78													
6	73	2278.78	6492.96	-0.02	0.0	0.0	-438.07	26.05	69.06	7.22	-8910.46	-	
6340.92		-6340.92	-8910.46	-0.05	0.0	223.0	-358.77	26.05	69.06	7.22	6492.96		
2278.78													
6	74	135.11	6501.81	-4.08e-03	0.0	0.0	-438.40	3.01	69.11	4.56	-8907.85	-	
1118.48		-1118.48	-8907.85	-0.05	0.0	223.0	-359.11	3.01	69.11	4.56	6501.81		
135.11													
6	84	1.867e+04	2044.27	0.06	0.0	0.0	-432.31	-74.51	-14.34	-9.97	2044.27		
1.867e+04		-5413.35	-1153.44	0.01	0.0	223.0	-353.01	-74.51	-14.34	-9.97	-1153.44	-	
5413.35													
6	85	5413.35	2373.55	-0.06	0.0	0.0	-434.63	74.51	24.14	9.97	-3009.16	-	
1.867e+04		-1.867e+04	-3009.16	-0.02	0.0	223.0	-355.33	74.51	24.14	9.97	2373.55		
5413.35													
7	1	1.070e+04	2714.14	0.05	0.0	0.0	-409.34	-0.46	-40.12	2.31	2714.14		
1.070e+04		1.059e+04	-6233.46	4.23e-03	0.0	223.0	-306.25	-0.46	-40.12	2.31	-6233.46		
1.059e+04													
7	2	1.070e+04	9459.83	0.05	0.0	0.0	-1289.56	-0.46	-140.06	2.31	9459.83		
1.070e+04		1.059e+04	-2.177e+04	0.01	0.0	223.0	-1186.47	-0.46	-140.06	2.31	-2.177e+04		
1.059e+04													
7	6	1.657e+04	5854.87	0.08	0.0	0.0	-819.16	-0.72	-86.65	3.57	5854.87		
1.657e+04		1.641e+04	-1.347e+04	9.11e-03	0.0	223.0	-716.07	-0.72	-86.65	3.57	-1.347e+04		
1.641e+04													
7	7	1.657e+04	1824.06	0.08	0.0	0.0	-280.46	-0.72	-26.96	3.57	1824.06		
1.657e+04		1.641e+04	-4187.37	2.85e-03	0.0	223.0	-201.16	-0.72	-26.96	3.57	-4187.37		
1.641e+04													
7	21	0.0	2193.25	0.0	0.0	0.0	-328.64	0.0	-32.43	0.0	2193.25		
0.0		0.0	-5037.91	3.42e-03	0.0	223.0	-249.34	0.0	-32.43	0.0	-5037.91		
0.0													
7	22	0.0	3092.68	0.0	0.0	0.0	-446.00	0.0	-45.75	0.0	3092.68		
0.0		0.0	-7109.95	4.82e-03	0.0	223.0	-366.70	0.0	-45.75	0.0	-7109.95		
0.0													
7	23	1957.73	2115.88	9.21e-03	0.0	0.0	-318.54	-0.08	-31.28	0.42	2115.88		
1957.73		1938.86	-4859.67	3.30e-03	0.0	223.0	-239.24	-0.08	-31.28	0.42	-4859.67		
1938.86													
7	25	7131.73	2101.86	0.03	0.0	0.0	-316.71	-0.31	-31.07	1.54	2101.86		
7131.73		7062.98	-4827.36	3.28e-03	0.0	223.0	-237.41	-0.31	-31.07	1.54	-4827.36		
7062.98													
7	26	7131.73	6598.98	0.03	0.0	0.0	-903.52	-0.31	-97.70	1.54	6598.98		
7131.73		7062.98	-1.519e+04	0.01	0.0	223.0	-824.22	-0.31	-97.70	1.54	-1.519e+04		
7062.98													
7	27	1.105e+04	1947.12	0.05	0.0	0.0	-296.52	-0.48	-28.78	2.38	1947.12		
1.105e+04		1.094e+04	-4470.88	3.04e-03	0.0	223.0	-217.22	-0.48	-28.78	2.38	-4470.88		
1.094e+04													
7	28	1.105e+04	4195.68	0.05	0.0	0.0	-589.93	-0.48	-62.09	2.38	4195.68		
1.105e+04		1.094e+04	-9650.99	6.53e-03	0.0	223.0	-510.63	-0.48	-62.09	2.38	-9650.99		
1.094e+04													
7	40	5456.15	1.738e+04	-0.05	0.0	0.0	-377.74	52.40	-133.19	45.28	1.738e+04	-	
1.493e+04		-1.493e+04	-1.234e+04	0.10	0.0	223.0	-298.44	52.40	-133.19	45.28	-1.234e+04		
5456.15													
7	41	1.493e+04	2268.45	0.05	0.0	0.0	-279.54	-52.40	68.34	-45.28	-1.299e+04		
1.493e+04		-5456.15	-1.299e+04	-0.10	0.0	223.0	-200.24	-52.40	68.34	-45.28	2268.45	-	
5456.15													
7	51	-6272.10	6713.19	-0.09	0.0	0.0	-337.97	118.96	-62.23	-45.47	6713.19	-	
2.834e+04		-2.834e+04	-7170.00	0.03	0.0	223.0	-258.67	118.96	-62.23	-45.47	-7170.00	-	

6272.10 7 2.834e+04	54	2.834e+04	-2326.68	0.09	0.0	0.0	-319.31	-118.96	-2.63	45.47	-2326.68
		6272.10	-2905.82	-0.03	0.0	223.0	-240.01	-118.96	-2.63	45.47	-2905.82
6272.10 7 5207.10	72	1993.89	9455.42	-0.02	0.0	0.0	-349.19	19.49	-80.52	16.17	9455.42 -
		-5207.10	-8505.35	0.04	0.0	223.0	-269.89	19.49	-80.52	16.17	-8505.35
1993.89 7 5207.10	73	5207.10	-1570.46	0.02	0.0	0.0	-308.09	-19.49	15.66	-16.17	-5068.91
		-1993.89	-5068.91	-0.05	0.0	223.0	-228.79	-19.49	15.66	-16.17	-1570.46 -
1993.89 7 1.297e+04	83	-3196.59	4364.97	-0.04	0.0	0.0	-333.95	52.31	-46.77	-16.92	4364.97 -
		-1.297e+04	-6066.95	0.01	0.0	223.0	-254.65	52.31	-46.77	-16.92	-6066.95 -
3196.59 7 1.297e+04	86	1.297e+04	21.54	0.04	0.0	0.0	-323.33	-52.31	-18.08	16.92	21.54
		3196.59	-4008.86	-0.02	0.0	223.0	-244.03	-52.31	-18.08	16.92	-4008.86
3196.59 9 1.306e+04	1	1.323e+04	142.73	0.06	0.0	0.0	-526.79	0.75	-1.20	0.75	142.73
		1.306e+04	-124.50	6.87e-04	0.0	223.0	-423.70	0.75	-1.20	0.75	-124.50
1.323e+04 9 1.306e+04	2	1.323e+04	531.27	0.06	0.0	0.0	-1690.28	0.75	-4.53	0.75	531.27
		1.306e+04	-478.74	2.49e-03	0.0	223.0	-1587.19	0.75	-4.53	0.75	-478.74
1.323e+04 9 2.023e+04	5	2.049e+04	129.36	0.10	0.0	0.0	-486.76	1.17	-1.08	1.17	129.36
		2.023e+04	-112.31	6.25e-04	0.0	223.0	-383.67	1.17	-1.08	1.17	-112.31
2.049e+04 9 2.023e+04	7	2.049e+04	94.60	0.10	0.0	0.0	-359.73	1.17	-0.79	1.17	94.60
		2.023e+04	-81.92	4.58e-04	0.0	223.0	-280.43	1.17	-0.79	1.17	-81.92
2.049e+04 9 0.0	22	0.0	167.67	0.0	0.0	0.0	-578.54	0.0	-1.42	0.0	167.67
		0.0	-148.54	7.97e-04	0.0	223.0	-499.24	0.0	-1.42	0.0	-148.54
0.0 9 2389.97	23	2420.75	111.41	0.01	0.0	0.0	-410.07	0.14	-0.94	0.14	111.41
		2389.97	-97.24	5.36e-04	0.0	223.0	-330.77	0.14	-0.94	0.14	-97.24
2420.75 9 8706.30	25	8818.45	110.60	0.04	0.0	0.0	-407.65	0.50	-0.93	0.50	110.60
		8706.30	-96.51	5.32e-04	0.0	223.0	-328.35	0.50	-0.93	0.50	-96.51
8818.45 9 8706.30	26	8818.45	369.63	0.04	0.0	0.0	-1183.31	0.50	-3.15	0.50	369.63
		8706.30	-332.66	1.73e-03	0.0	223.0	-1104.01	0.50	-3.15	0.50	-332.66
8818.45 9 1.349e+04	27	1.366e+04	101.69	0.06	0.0	0.0	-380.96	0.78	-0.85	0.78	101.69
		1.349e+04	-88.38	4.91e-04	0.0	223.0	-301.66	0.78	-0.85	0.78	-88.38
1.366e+04 9 1.397e+04	40	1.397e+04	1.775e+04	0.05	0.0	0.0	-411.60	-57.33	-134.88	-5.42	1.775e+04
		-3950.46	-1.233e+04	0.10	0.0	223.0	-332.30	-57.33	-134.88	-5.42	-1.233e+04 -
3950.46 9 1.397e+04	41	3950.46	1.213e+04	-0.05	0.0	0.0	-435.23	57.33	132.94	5.42	-1.752e+04 -
		-1.397e+04	-1.752e+04	-0.10	0.0	223.0	-355.93	57.33	132.94	5.42	1.213e+04
3950.46 9 2.787e+04	60	2.787e+04	5579.79	0.10	0.0	0.0	-401.85	-112.90	-43.70	12.81	5579.79
		-1.010e+04	-4167.11	0.03	0.0	223.0	-322.55	-112.90	-43.70	12.81	-4167.11 -
1.010e+04 9 2.787e+04	61	1.010e+04	3964.50	-0.10	0.0	0.0	-444.98	112.90	41.76	-12.81	-5348.06 -
		-2.787e+04	-5348.06	-0.03	0.0	223.0	-365.68	112.90	41.76	-12.81	3964.50
1.010e+04 9 5529.86	72	5529.86	8560.13	0.02	0.0	0.0	-420.14	-22.77	-65.01	-1.14	8560.13

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture				PAGE 157 di/of 308			
1697.68		-1697.68	-5938.29	0.05	0.0	223.0	-340.84	-22.77	-65.01	-1.14	-5938.29	-			
9	73	1697.68	5735.68	-0.02	0.0	0.0	-426.68	22.77	63.07	1.14	-8328.39	-			
5529.86		-5529.86	-8328.39	-0.05	0.0	223.0	-347.38	22.77	63.07	1.14	5735.68				
1697.68															
9	92	1.367e+04	2678.42	0.05	0.0	0.0	-419.52	-55.71	-20.62	3.91	2678.42				
1.367e+04		-4988.15	-1919.33	0.01	0.0	223.0	-340.22	-55.71	-20.62	3.91	-1919.33	-			
4988.15															
9	93	4988.15	1716.72	-0.05	0.0	0.0	-427.31	55.71	18.67	-3.91	-2446.68	-			
1.367e+04		-1.367e+04	-2446.68	-0.01	0.0	223.0	-348.01	55.71	18.67	-3.91	1716.72				
4988.15															
10	1	1.362e+04	105.12	0.06	0.0	0.0	-529.13	-0.16	0.20	0.08	60.71				
1.362e+04		1.358e+04	60.71	9.67e-04	0.0	223.0	-426.04	-0.16	0.20	0.08	105.12				
1.358e+04															
10	2	1.362e+04	547.71	0.06	0.0	0.0	-1700.48	-0.16	1.84	0.08	137.82				
1.362e+04		1.358e+04	137.82	3.51e-03	0.0	223.0	-1597.39	-0.16	1.84	0.08	547.71				
1.358e+04															
10	5	2.109e+04	89.89	0.10	0.0	0.0	-488.82	-0.25	0.14	0.12	58.05				
2.109e+04		2.104e+04	58.05	8.79e-04	0.0	223.0	-385.73	-0.25	0.14	0.12	89.89				
2.104e+04															
10	7	2.109e+04	63.56	0.10	0.0	0.0	-361.22	-0.25	0.09	0.12	43.68				
2.109e+04		2.104e+04	43.68	6.44e-04	0.0	223.0	-281.92	-0.25	0.09	0.12	63.56				
2.104e+04															
10	21	0.0	87.78	0.0	0.0	0.0	-425.33	0.0	0.18	0.0	47.90				
0.0		0.0	47.90	7.83e-04	0.0	223.0	-346.03	0.0	0.18	0.0	87.78				
0.0															
10	22	0.0	146.79	0.0	0.0	0.0	-581.51	0.0	0.40	0.0	58.19				
0.0		0.0	58.19	1.12e-03	0.0	223.0	-502.21	0.0	0.40	0.0	146.79				
0.0															
10	23	2491.86	82.71	0.01	0.0	0.0	-411.90	-0.03	0.16	0.01	47.02				
2491.86		2485.34	47.02	7.54e-04	0.0	223.0	-332.60	-0.03	0.16	0.01	82.71				
2485.34															
10	25	9077.48	81.78	0.04	0.0	0.0	-409.46	-0.11	0.16	0.05	46.86				
9077.48		9053.76	46.86	7.49e-04	0.0	223.0	-330.16	-0.11	0.16	0.05	81.78				
9053.76															
10	26	9077.48	376.84	0.04	0.0	0.0	-1190.37	-0.11	1.25	0.05	98.27				
9077.48		9053.76	98.27	2.45e-03	0.0	223.0	-1111.07	-0.11	1.25	0.05	376.84				
9053.76															
10	27	1.406e+04	71.63	0.07	0.0	0.0	-382.59	-0.16	0.12	0.08	45.09				
1.406e+04		1.402e+04	45.09	6.90e-04	0.0	223.0	-303.29	-0.16	0.12	0.08	71.63				
1.402e+04															
10	39	4438.86	1.752e+04	-0.04	0.0	0.0	-427.86	48.54	-131.40	-0.46	1.752e+04	-			
1.224e+04		-1.224e+04	-1.179e+04	0.10	0.0	223.0	-348.56	48.54	-131.40	-0.46	-1.179e+04				
4438.86															
10	42	1.224e+04	1.196e+04	0.04	0.0	0.0	-422.81	-48.54	131.76	0.46	-1.742e+04				
1.224e+04		-4438.86	-1.742e+04	-0.10	0.0	223.0	-343.51	-48.54	131.76	0.46	1.196e+04	-			
4438.86															
10	59	1.149e+04	5381.77	-0.12	0.0	0.0	-420.15	128.74	-40.62	-9.12	5381.77	-			
3.376e+04		-3.376e+04	-3676.32	0.03	0.0	223.0	-340.85	128.74	-40.62	-9.12	-3676.32				
1.149e+04															
10	60	3.237e+04	5177.13	0.11	0.0	0.0	-433.21	-122.20	-37.71	10.62	5177.13				
3.237e+04		-1.084e+04	-3232.25	0.03	0.0	223.0	-353.91	-122.20	-37.71	10.62	-3232.25	-			
1.084e+04															
10	61	1.084e+04	3407.81	-0.11	0.0	0.0	-417.45	122.20	38.07	-10.62	-5081.33	-			
3.237e+04		-3.237e+04	-5081.33	-0.03	0.0	223.0	-338.15	122.20	38.07	-10.62	3407.81				
1.084e+04															
10	62	3.376e+04	3851.88	0.12	0.0	0.0	-430.52	-128.74	40.97	9.12	-5285.96				

3.376e+04												
		-1.149e+04	-5285.96	-0.03	0.0	223.0	-351.22	-128.74	40.97	9.12	3851.88	-
1.149e+04												
10	71	1776.55	8416.94	-0.02	0.0	0.0	-426.25	19.54	-62.80	-0.48	8416.94	-
4892.20		-4892.20	-5588.64	0.05	0.0	223.0	-346.95	19.54	-62.80	-0.48	-5588.64	
1776.55												
10	72	4242.16	8407.07	0.01	0.0	0.0	-426.90	-15.84	-62.67	1.27	8407.07	
4242.16		-1346.17	-5567.87	0.05	0.0	223.0	-347.60	-15.84	-62.67	1.27	-5567.87	-
1346.17												
10	73	1346.17	5743.44	-0.01	0.0	0.0	-423.76	15.84	63.03	-1.27	-8311.27	-
4242.16		-4242.16	-8311.27	-0.05	0.0	223.0	-344.46	15.84	63.03	-1.27	5743.44	
1346.17												
10	74	4892.20	5764.20	0.02	0.0	0.0	-424.42	-19.54	63.16	0.48	-8321.14	
4892.20		-1776.55	-8321.14	-0.05	0.0	223.0	-345.12	-19.54	63.16	0.48	5764.20	-
1776.55												
10	91	5269.09	2573.58	-0.05	0.0	0.0	-424.62	59.51	-18.92	-2.80	2573.58	-
1.532e+04		-1.532e+04	-1646.64	0.01	0.0	223.0	-345.32	59.51	-18.92	-2.80	-1646.64	
5269.09												
10	94	1.532e+04	1822.20	0.05	0.0	0.0	-426.05	-59.51	19.28	2.80	-2477.78	
1.532e+04		-5269.09	-2477.78	-0.01	0.0	223.0	-346.75	-59.51	19.28	2.80	1822.20	-
5269.09												
11	1	1.358e+04	315.07	0.06	0.0	0.0	-529.13	0.19	-3.06	-0.16	315.07	
1.354e+04		1.354e+04	-367.96	1.14e-03	0.0	223.0	-426.04	0.19	-3.06	-0.16	-367.96	
1.358e+04												
11	2	1.358e+04	1211.66	0.06	0.0	0.0	-1700.40	0.19	-12.13	-0.16	1211.66	
1.354e+04		1.354e+04	-1492.74	4.14e-03	0.0	223.0	-1597.31	0.19	-12.13	-0.16	-1492.74	
1.358e+04												
11	5	2.104e+04	284.22	0.10	0.0	0.0	-488.83	0.30	-2.75	-0.25	284.22	
2.097e+04		2.097e+04	-329.26	1.04e-03	0.0	223.0	-385.74	0.30	-2.75	-0.25	-329.26	
2.104e+04												
11	7	2.104e+04	207.31	0.10	0.0	0.0	-361.23	0.30	-2.00	-0.25	207.31	
2.097e+04		2.097e+04	-239.07	7.62e-04	0.0	223.0	-281.93	0.30	-2.00	-0.25	-239.07	
2.104e+04												
11	22	0.0	375.92	0.0	0.0	0.0	-581.50	0.0	-3.71	0.0	375.92	
0.0		0.0	-450.60	1.32e-03	0.0	223.0	-502.20	0.0	-3.71	0.0	-450.60	
0.0												
11	23	2485.20	246.10	0.01	0.0	0.0	-411.90	0.04	-2.39	-0.03	246.10	
2477.29		2477.29	-287.73	8.90e-04	0.0	223.0	-332.60	0.04	-2.39	-0.03	-287.73	
2485.20												
11	25	9053.24	244.23	0.04	0.0	0.0	-409.47	0.13	-2.37	-0.11	244.23	
9024.40		9024.40	-285.39	8.84e-04	0.0	223.0	-330.17	0.13	-2.37	-0.11	-285.39	
9053.24												
11	26	9053.24	841.96	0.04	0.0	0.0	-1190.31	0.13	-8.42	-0.11	841.96	
9024.40		9024.40	-1035.24	2.88e-03	0.0	223.0	-1111.01	0.13	-8.42	-0.11	-1035.24	
9053.24												
11	27	1.402e+04	223.67	0.07	0.0	0.0	-382.60	0.20	-2.17	-0.17	223.67	
1.398e+04		1.398e+04	-259.59	8.16e-04	0.0	223.0	-303.30	0.20	-2.17	-0.17	-259.59	
1.402e+04												
11	40	8916.16	1.773e+04	0.03	0.0	0.0	-429.05	-32.99	-134.14	6.61	1.773e+04	
8916.16		4704.73	-1.218e+04	0.10	0.0	223.0	-349.75	-32.99	-134.14	6.61	-1.218e+04	
4704.73												
11	41	-4704.73	1.158e+04	-0.03	0.0	0.0	-421.62	32.99	129.15	-6.61	-1.722e+04	-
8916.16		-8916.16	-1.722e+04	-0.10	0.0	223.0	-342.32	32.99	129.15	-6.61	1.158e+04	-
4704.73												
11	59	-1.220e+04	5448.64	-0.13	0.0	0.0	-438.50	133.73	-41.35	-9.36	5448.64	-
3.626e+04		-3.626e+04	-3772.12	0.03	0.0	223.0	-359.20	133.73	-41.35	-9.36	-3772.12	-
1.220e+04												

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11	62	3.626e+04	3170.86	0.13	0.0	0.0	-412.17	-133.73	36.36	9.36	-4935.88			
3.626e+04		1.220e+04	-4935.88	-0.03	0.0	223.0	-332.87	-133.73	36.36	9.36	3170.86			
1.220e+04	11	4396.96	8631.67	0.02	0.0	0.0	-426.29	-17.25	-65.57	1.33	8631.67			
4396.96		1855.28	-5990.27	0.05	0.0	223.0	-346.99	-17.25	-65.57	1.33	-5990.27			
1855.28	11	-1855.28	5389.01	-0.02	0.0	0.0	-424.38	17.25	60.57	-1.33	-8118.91	-		
4396.96		-4396.96	-8118.91	-0.05	0.0	223.0	-345.08	17.25	60.57	-1.33	5389.01	-		
1855.28	11	-5468.46	2758.52	-0.06	0.0	0.0	-427.46	61.81	-21.29	-2.65	2758.52	-		
1.608e+04		-1.608e+04	-1990.18	0.02	0.0	223.0	-348.16	61.81	-21.29	-2.65	-1990.18	-		
5468.46	11	1.608e+04	1388.92	0.06	0.0	0.0	-423.21	-61.81	16.30	2.65	-2245.76			
1.608e+04		5468.46	-2245.76	-0.01	0.0	223.0	-343.91	-61.81	16.30	2.65	1388.92			
5468.46	12	1 1.345e+04	198.12	0.06	0.0	0.0	-526.09	-0.78	-1.16	0.15	198.12			
1.345e+04		1.328e+04	-59.98	1.43e-03	0.0	223.0	-423.00	-0.78	-1.16	0.15	-59.98			
1.328e+04	12	2 1.345e+04	693.50	0.06	0.0	0.0	-1688.03	-0.78	-3.95	0.15	693.50			
1.345e+04		1.328e+04	-186.38	5.12e-03	0.0	223.0	-1584.94	-0.78	-3.95	0.15	-186.38			
1.328e+04	12	5 2.084e+04	181.07	0.10	0.0	0.0	-486.11	-1.20	-1.06	0.23	181.07			
2.084e+04		2.057e+04	-55.63	1.31e-03	0.0	223.0	-383.02	-1.20	-1.06	0.23	-55.63			
2.057e+04	12	7 2.084e+04	133.03	0.10	0.0	0.0	-359.25	-1.20	-0.78	0.23	133.03			
2.084e+04		2.057e+04	-41.19	9.59e-04	0.0	223.0	-279.95	-1.20	-0.78	0.23	-41.19			
2.057e+04	12	22	0.0	226.20	0.0	0.0	-577.77	0.0	-1.31	0.0	226.20			
0.0		0.0	-64.97	1.65e-03	0.0	223.0	-498.47	0.0	-1.31	0.0	-64.97			
0.0	12	23	2462.21	154.46	0.01	0.0	0.0	-409.52	-0.14	-0.90	0.03	154.46		
2462.21		2430.54	-46.66	1.12e-03	0.0	223.0	-330.22	-0.14	-0.90	0.03	-46.66			
2430.54	12	25	8969.48	153.43	0.04	0.0	0.0	-407.10	-0.52	-0.90	0.10	153.43		
8969.48		8854.13	-46.40	1.11e-03	0.0	223.0	-327.80	-0.52	-0.90	0.10	-46.40			
8854.13	12	26	8969.48	483.69	0.04	0.0	0.0	-1181.73	-0.52	-2.75	0.10	483.69		
8969.48		8854.13	-130.67	3.57e-03	0.0	223.0	-1102.43	-0.52	-2.75	0.10	-130.67			
8854.13	12	27	1.389e+04	142.07	0.07	0.0	0.0	-380.45	-0.80	-0.83	0.15	142.07		
1.389e+04		1.372e+04	-43.50	1.03e-03	0.0	223.0	-301.15	-0.80	-0.83	0.15	-43.50			
1.372e+04	12	40	1.550e+04	1.762e+04	0.05	0.0	0.0	-419.57	-62.89	-132.41	-4.23	1.762e+04		
1.550e+04		1596.86	-1.191e+04	0.10	0.0	223.0	-340.27	-62.89	-132.41	-4.23	-1.191e+04			
1596.86	12	41	-1596.86	1.181e+04	-0.05	0.0	0.0	-426.12	62.89	130.54	4.23	-1.730e+04	-	
1.550e+04		-1.550e+04	-1.730e+04	-0.10	0.0	223.0	-346.82	62.89	130.54	4.23	1.181e+04	-		
1596.86	12	59	-1.318e+04	5326.79	-0.14	0.0	0.0	-413.67	151.47	-39.28	-9.90	5326.79	-	
3.997e+04		-3.997e+04	-3431.79	0.03	0.0	223.0	-334.37	151.47	-39.28	-9.90	-3431.79	-		
1.318e+04	12	60	4.190e+04	5460.10	0.14	0.0	0.0	-428.70	-161.08	-41.29	5.94	5460.10		
4.190e+04		1.189e+04	-3749.97	0.03	0.0	223.0	-349.40	-161.08	-41.29	5.94	-3749.97			
1.189e+04	12	61	-1.189e+04	3653.75	-0.14	0.0	0.0	-416.99	161.08	39.42	-5.94	-5139.81	-	
4.190e+04		-4.190e+04	-5139.81	-0.03	0.0	223.0	-337.69	161.08	39.42	-5.94	3653.75	-		

1.189e+04 12 3.997e+04	62	3.997e+04	3335.57	0.14	0.0	0.0	-432.02	-151.47	37.42	9.90	-5006.50
		1.318e+04	-5006.50	-0.03	0.0	223.0	-352.72	-151.47	37.42	9.90	3335.57
1.318e+04 12 5839.47	72	5839.47	8516.59	0.02	0.0	0.0	-422.32	-23.91	-63.76	-0.53	8516.59
		1207.07	-5703.50	0.05	0.0	223.0	-343.02	-23.91	-63.76	-0.53	-5703.50
1207.07 12 5839.47	73	-1207.07	5607.27	-0.02	0.0	0.0	-423.37	23.91	61.90	0.53	-8196.30
		-5839.47	-8196.30	-0.05	0.0	223.0	-344.07	23.91	61.90	0.53	5607.27
1207.07 12 1.727e+04	91	-5935.04	2654.44	-0.06	0.0	0.0	-420.88	67.09	-19.61	-2.89	2654.44
		-1.727e+04	-1717.54	0.02	0.0	223.0	-341.58	67.09	-19.61	-2.89	-1717.54
5935.04 12 1.763e+04	92	1.763e+04	2677.63	0.06	0.0	0.0	-424.20	-69.17	-19.93	2.12	2677.63
		5619.38	-1767.42	0.02	0.0	223.0	-344.90	-69.17	-19.93	2.12	-1767.42
5619.38 12 1.763e+04	93	-5619.38	1671.20	-0.06	0.0	0.0	-421.50	69.17	18.06	-2.12	-2357.34
		-1.763e+04	-2357.34	-0.01	0.0	223.0	-342.20	69.17	18.06	-2.12	1671.20
5619.38 12 1.727e+04	94	1.727e+04	1621.32	0.06	0.0	0.0	-424.81	-67.09	17.74	2.89	-2334.15
		5935.04	-2334.15	-0.01	0.0	223.0	-345.51	-67.09	17.74	2.89	1621.32
5935.04 13 1.327e+04	1	1.350e+04	546.55	0.06	0.0	0.0	-539.17	1.06	-5.69	-0.86	546.55
		1.327e+04	-721.43	1.73e-03	0.0	223.0	-436.08	1.06	-5.69	-0.86	-721.43
1.350e+04 13 1.327e+04	2	1.350e+04	1859.54	0.06	0.0	0.0	-1736.06	1.06	-19.05	-0.86	1859.54
		1.327e+04	-2388.78	6.07e-03	0.0	223.0	-1632.97	1.06	-19.05	-0.86	-2388.78
1.350e+04 13 2.055e+04	5	2.092e+04	501.37	0.10	0.0	0.0	-497.99	1.64	-5.23	-1.33	501.37
		2.055e+04	-664.06	1.58e-03	0.0	223.0	-394.90	1.64	-5.23	-1.33	-664.06
2.092e+04 13 2.055e+04	7	2.092e+04	369.09	0.10	0.0	0.0	-367.95	1.64	-3.85	-1.33	369.09
		2.055e+04	-489.75	1.16e-03	0.0	223.0	-288.65	1.64	-3.85	-1.33	-489.75
2.092e+04 13 0.0	22	0.0	616.01	0.0	0.0	0.0	-593.04	0.0	-6.36	0.0	616.01
		0.0	-803.32	1.98e-03	0.0	223.0	-513.74	0.0	-6.36	0.0	-803.32
0.0 13 2428.10	23	2471.19	425.89	0.01	0.0	0.0	-419.73	0.19	-4.43	-0.16	425.89
		2428.10	-561.89	1.35e-03	0.0	223.0	-340.43	0.19	-4.43	-0.16	-561.89
2471.19 13 8845.21	25	9002.19	423.16	0.04	0.0	0.0	-417.24	0.70	-4.40	-0.57	423.16
		8845.21	-558.42	1.34e-03	0.0	223.0	-337.94	0.70	-4.40	-0.57	-558.42
9002.19 13 8845.21	26	9002.19	1298.48	0.04	0.0	0.0	-1215.17	0.70	-13.31	-0.57	1298.48
		8845.21	-1669.99	4.23e-03	0.0	223.0	-1135.87	0.70	-13.31	-0.57	-1669.99
9002.19 13 1.370e+04	27	1.394e+04	393.04	0.07	0.0	0.0	-389.79	1.09	-4.10	-0.89	393.04
		1.370e+04	-520.17	1.24e-03	0.0	223.0	-310.49	1.09	-4.10	-0.89	-520.17
1.394e+04 13 2.435e+04	39	6938.58	1.811e+04	-0.08	0.0	0.0	-448.01	93.00	-138.77	-31.74	1.811e+04
		-2.435e+04	-1.285e+04	0.10	0.0	223.0	-368.71	93.00	-138.77	-31.74	-1.285e+04
6938.58 13 4276.23	40	938.78	1.813e+04	-0.02	0.0	0.0	-445.53	12.66	-139.28	-12.12	1.813e+04
		-4276.23	-1.294e+04	0.10	0.0	223.0	-366.23	12.66	-139.28	-12.12	-1.294e+04
938.78 13 4276.23	41	4276.23	1.177e+04	0.02	0.0	0.0	-421.38	-12.66	130.12	12.12	-1.725e+04

[illegible]

Trave M 3	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	TM	2
daN cm		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cmdaN	cm
8 159.55	2	-105.91	4.772e+04	2.38e-03	0.0	0.0	-140.06	0.46	-615.29	4680.73	4.772e+04
105.91		-159.55	-2.212e+04	0.16	26.47	116.0	-140.06	0.46	-588.82	4680.73	-2.212e+04
8 247.15	5	-164.05	1.168e+04	3.69e-03	0.0	0.0	-36.69	0.72	-157.83	7250.54	1.168e+04
164.05		-247.15	-5088.73	0.04	26.47	116.0	-36.69	0.72	-131.36	7250.54	-5088.73
8 247.15	7	-164.05	8547.77	3.69e-03	0.0	0.0	-26.96	0.72	-115.82	7250.54	8547.77
164.05		-247.15	-3706.46	0.03	20.36	116.0	-26.96	0.72	-95.46	7250.54	-3706.46
8 0.0	22	0.0	1.510e+04	0.0	0.0	0.0	-45.75	0.0	-198.99	0.0	1.510e+04
0.0		0.0	-6802.79	0.05	20.36	116.0	-45.75	0.0	-178.63	0.0	-6802.79
8 29.20	23	-19.38	1.005e+04	4.36e-04	0.0	0.0	-31.28	0.08	-134.95	856.60	1.005e+04
19.38		-29.20	-4418.73	0.03	20.36	116.0	-31.28	0.08	-114.59	856.60	-4418.73
8 106.37	26	-70.61	3.321e+04	1.59e-03	0.0	0.0	-97.70	0.31	-428.87	3120.49	3.321e+04

70.61		-106.37	-1.536e+04	0.11	20.36	116.0	-97.70	0.31	-408.50	3120.49	-1.536e+04	-
8	27	-109.37	9183.32	2.46e-03	0.0	0.0	-28.78	0.48	-123.89	4833.70	9183.32	-
164.77		-164.77	-4006.83	0.03	20.36	116.0	-28.78	0.48	-103.53	4833.70	-4006.83	-
109.37												
8	39	1074.09	4163.25	0.04	0.0	0.0	20.94	-22.10	-99.29	-2135.70	4163.25	
1074.09		-1744.50	-6576.34	0.04	20.36	116.0	20.94	-22.10	-78.93	-2135.70	-6576.34	-
1744.50												
8	42	1744.50	1.675e+04	-0.04	0.0	0.0	-85.80	22.10	-180.76	2135.70	1.675e+04	-
1074.09		-1074.09	-2638.79	0.03	20.36	116.0	-85.80	22.10	-160.39	2135.70	-2638.79	
1744.50												
8	52	4432.34	8617.54	0.03	0.0	0.0	-16.90	-70.78	-128.56	-5097.02	8617.54	
4432.34		-5090.58	-5160.25	0.04	20.36	116.0	-16.90	-70.78	-108.20	-5097.02	-5160.25	-
5090.58												
8	53	5090.58	1.229e+04	-0.03	0.0	0.0	-47.95	70.78	-151.49	5097.02	1.229e+04	-
4432.34		-4432.34	-4054.88	0.03	20.36	116.0	-47.95	70.78	-131.13	5097.02	-4054.88	
5090.58												
8	71	397.30	7437.47	0.01	0.0	0.0	-10.26	-10.15	-120.87	-642.21	7437.47	
397.30		-790.83	-5445.85	0.04	20.36	116.0	-10.26	-10.15	-100.51	-642.21	-5445.85	-
790.83												
8	74	790.83	1.347e+04	-0.01	0.0	0.0	-54.59	10.15	-159.18	642.21	1.347e+04	-
397.30		-397.30	-3769.28	0.03	20.36	116.0	-54.59	10.15	-138.82	642.21	-3769.28	
790.83												
8	84	2051.24	9556.73	9.54e-03	0.0	0.0	-25.88	-33.17	-134.39	-2421.16	9556.73	
2051.24		-1994.93	-4853.36	0.04	20.36	116.0	-25.88	-33.17	-114.03	-2421.16	-4853.36	-
1994.93												
8	85	1994.93	1.135e+04	-9.54e-03	0.0	0.0	-38.98	33.17	-145.66	2421.16	1.135e+04	-
2051.24		-2051.24	-4361.77	0.03	20.36	116.0	-38.98	33.17	-125.30	2421.16	-4361.77	
1994.93												
15	2	2.31	3.830e+04	9.68e-03	0.0	0.0	-141.16	-0.46	-607.15	5504.58	3.830e+04	
2.31		-44.87	-2.244e+04	0.16	23.27	102.0	-141.16	-0.46	-583.88	5504.58	-2.244e+04	-
44.87												
15	6	3.57	2.322e+04	0.01	0.0	0.0	-87.32	-0.72	-372.18	8526.70	2.322e+04	
3.57		-69.50	-1.355e+04	0.10	23.27	102.0	-87.32	-0.72	-348.91	8526.70	-1.355e+04	-
69.50												
15	7	3.57	6653.48	0.01	0.0	0.0	-27.15	-0.72	-111.63	8526.70	6653.48	
3.57		-69.50	-3819.61	0.03	17.90	102.0	-27.15	-0.72	-93.73	8526.70	-3819.61	-
69.50												
15	22	0.0	1.196e+04	0.0	0.0	0.0	-46.10	0.0	-194.32	0.0	1.196e+04	
0.0		0.0	-6946.77	0.05	17.90	102.0	-46.10	0.0	-176.41	0.0	-6946.77	
15	23	0.42	7874.31	1.77e-03	0.0	0.0	-31.51	-0.08	-130.65	1007.37	7874.31	
0.42		-8.21	-4538.97	0.03	17.90	102.0	-31.51	-0.08	-112.75	1007.37	-4538.97	-
8.21												
15	26	1.54	2.663e+04	6.45e-03	0.0	0.0	-98.46	-0.31	-422.86	3669.72	2.663e+04	
1.54		-29.91	-1.559e+04	0.11	17.90	102.0	-98.46	-0.31	-404.96	3669.72	-1.559e+04	-
29.91												
15	27	2.38	7168.31	1.00e-02	0.0	0.0	-28.99	-0.48	-119.65	5684.47	7168.31	
2.38		-46.33	-4122.97	0.03	17.90	102.0	-28.99	-0.48	-101.75	5684.47	-4122.97	-
46.33												
15	28	2.38	1.657e+04	1.00e-02	0.0	0.0	-62.57	-0.48	-266.21	5684.47	1.657e+04	
2.38		-46.33	-9665.68	0.07	17.90	102.0	-62.57	-0.48	-248.31	5684.47	-9665.68	-
46.33												
15	40	6670.57	1092.64	-0.14	0.0	0.0	29.96	-64.54	-97.16	-1321.14	1092.64	
6670.57		-6251.60	-8117.47	0.05	17.90	102.0	29.96	-64.54	-79.26	-1321.14	-8117.47	-
6251.60												
15	41	6251.60	1.530e+04	0.14	0.0	0.0	-95.29	64.54	-174.23	1321.14	1.530e+04	-

6670.57		-6670.57	-1341.91	0.02	17.90	102.0	-95.29	64.54	-156.32	1321.14	-1341.91
6251.60											
15	60	7642.32	6012.69	-6.51e-03	0.0	0.0	-12.33	-63.57	-125.73	4386.10	6012.69
7642.32		-7121.34	-5867.83	0.04	17.90	102.0	-12.33	-63.57	-107.83	4386.10	-5867.83
7121.34											
15	61	7121.34	1.038e+04	6.51e-03	0.0	0.0	-53.00	63.57	-145.66	-4386.10	1.038e+04
7642.32		-7642.32	-3591.55	0.03	17.90	102.0	-53.00	63.57	-127.75	-4386.10	-3591.55
7121.34											
15	72	2597.17	4822.60	-0.04	0.0	0.0	-5.55	-26.39	-117.52	-112.37	4822.60
2597.17		-2079.30	-6307.19	0.04	17.90	102.0	-5.55	-26.39	-99.62	-112.37	-6307.19
2079.30											
15	73	2079.30	1.157e+04	0.04	0.0	0.0	-59.78	26.39	-153.87	112.37	1.157e+04
2597.17		-2597.17	-3152.19	0.03	17.90	102.0	-59.78	26.39	-135.96	112.37	-3152.19
2079.30											
15	92	2815.21	7177.21	4.75e-03	0.0	0.0	-24.28	-28.57	-130.48	2393.93	7177.21
2815.21		-2539.14	-5221.62	0.04	17.90	102.0	-24.28	-28.57	-112.58	2393.93	-5221.62
2539.14											
15	93	2539.14	9218.75	-4.75e-03	0.0	0.0	-41.05	28.57	-140.90	-2393.93	9218.75
2815.21		-2815.21	-4237.76	0.03	17.90	102.0	-41.05	28.57	-123.00	-2393.93	-4237.76
2539.14											
16	2	148.63	4.548e+04	1.55e-03	0.0	0.0	-100.31	-0.67	-1008.31	8810.34	4.548e+04
148.63		136.49	2.736e+04	6.39e-03	4.11	18.0	-100.31	-0.67	-1004.20	8810.34	2.736e+04
136.49											
16	5	230.23	1.102e+04	2.39e-03	0.0	0.0	-26.23	-1.05	-235.09	1.365e+04	1.102e+04
230.23		211.42	6827.17	1.56e-03	4.11	18.0	-26.23	-1.05	-230.98	1.365e+04	6827.17
211.42											
16	7	230.23	8057.57	2.39e-03	0.0	0.0	-19.27	-1.05	-171.39	1.365e+04	8057.57
230.23		211.42	5000.92	1.14e-03	3.16	18.0	-19.27	-1.05	-168.23	1.365e+04	5000.92
211.42											
16	22	0.0	1.432e+04	0.0	0.0	0.0	-32.74	0.0	-311.97	0.0	1.432e+04
0.0		0.0	8734.54	2.02e-03	3.16	18.0	-32.74	0.0	-308.81	0.0	8734.54
0.0											
16	23	27.20	9498.53	2.83e-04	0.0	0.0	-22.37	-0.12	-203.73	1612.35	9498.53
27.20		24.98	5859.79	1.34e-03	3.16	18.0	-22.37	-0.12	-200.57	1612.35	5859.79
24.98											
16	26	99.09	3.163e+04	1.03e-03	0.0	0.0	-69.97	-0.45	-700.51	5873.56	3.163e+04
99.09		90.99	1.905e+04	4.44e-03	3.16	18.0	-69.97	-0.45	-697.35	5873.56	1.905e+04
90.99											
16	27	153.49	8665.23	1.60e-03	0.0	0.0	-20.58	-0.70	-185.03	9098.26	8665.23
153.49		140.95	5363.11	1.22e-03	3.16	18.0	-20.58	-0.70	-181.87	9098.26	5363.11
140.95											
16	39	-908.04	3478.66	-8.33e-03	0.0	0.0	56.96	-19.01	-173.14	-2670.93	3478.66
908.04		-1232.19	266.73	7.55e-03	3.16	18.0	56.96	-19.01	-169.98	-2670.93	266.73
1232.19											
16	42	1232.19	1.628e+04	8.33e-03	0.0	0.0	-103.34	19.01	-251.47	2670.93	1.628e+04
908.04		908.04	1.191e+04	-4.76e-03	3.16	18.0	-103.34	19.01	-248.32	2670.93	1.191e+04
1232.19											
16	51	-2335.17	7939.57	-3.28e-03	0.0	0.0	2.17	38.00	-199.12	-5703.73	7939.57
2916.52		-2916.52	4332.63	3.20e-03	3.16	18.0	2.17	38.00	-195.96	-5703.73	4332.63
2335.17											
16	54	2916.52	1.182e+04	3.28e-03	0.0	0.0	-48.56	-38.00	-225.49	5703.73	1.182e+04
2916.52		2335.17	7842.35	-6.14e-04	3.16	18.0	-48.56	-38.00	-222.34	5703.73	7842.35
2335.17											
16	71	-454.11	6850.09	-2.28e-03	0.0	0.0	14.79	-7.82	-194.93	-1006.23	6850.09
454.11		-599.71	3355.07	4.36e-03	3.16	18.0	14.79	-7.82	-191.77	-1006.23	3355.07
599.71											

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture PAGE 165 di/of 308			
16	74	599.71	1.291e+04	2.28e-03	0.0	0.0	-61.17	7.82	-229.68	1006.23	1.291e+04
454.11		454.11	8819.91	-1.57e-03	3.16	18.0	-61.17	7.82	-226.52	1006.23	8819.91
599.71											
16	83	-1158.20	8967.97	-1.24e-03	0.0	0.0	-11.56	21.06	-206.91	-2845.84	8967.97 -
1499.76		-1499.76	5267.17	2.28e-03	3.16	18.0	-11.56	21.06	-203.75	-2845.84	5267.17 -
1158.20											
16	86	1499.76	1.079e+04	1.24e-03	0.0	0.0	-34.83	-21.06	-217.70	2845.84	1.079e+04
1499.76		1158.20	6907.81	5.12e-04	3.16	18.0	-34.83	-21.06	-214.54	2845.84	6907.81
1158.20											
17	1	-22.36	1.296e+04	3.13e-03	0.0	0.0	-29.51	0.61	-209.50	6466.27	1.296e+04 -
63.58		-63.58	-759.46	0.02	15.52	68.0	-29.51	0.61	-193.98	6466.27	-759.46 -
22.36											
17	2	-22.36	4.896e+04	3.13e-03	0.0	0.0	-103.35	0.61	-783.47	6466.27	4.896e+04 -
63.58		-63.58	-3789.33	0.07	15.52	68.0	-103.35	0.61	-767.95	6466.27	-3789.33 -
22.36											
17	5	-34.63	1.172e+04	4.84e-03	0.0	0.0	-26.97	0.94	-189.75	1.002e+04	1.172e+04 -
98.48		-98.48	-655.20	0.02	15.52	68.0	-26.97	0.94	-174.23	1.002e+04	-655.20 -
34.63											
17	7	-34.63	8560.88	4.84e-03	0.0	0.0	-19.82	0.94	-138.71	1.002e+04	8560.88 -
98.48		-98.48	-465.73	0.01	11.94	68.0	-19.82	0.94	-126.78	1.002e+04	-465.73 -
34.63											
17	22	0.0	1.533e+04	0.0	0.0	0.0	-33.70	0.0	-246.66	0.0	1.533e+04
0.0		0.0	-1035.55	0.02	11.94	68.0	-33.70	0.0	-234.72	0.0	-1035.55
0.0											
17	23	-4.09	1.012e+04	5.72e-04	0.0	0.0	-23.01	0.11	-163.54	1183.37	1.012e+04 -
11.64		-11.64	-596.81	0.01	11.94	68.0	-23.01	0.11	-151.61	1183.37	-596.81 -
4.09											
17	25	-14.90	1.004e+04	2.08e-03	0.0	0.0	-22.86	0.40	-162.35	4310.85	1.004e+04 -
42.39		-42.39	-590.51	0.01	11.94	68.0	-22.86	0.40	-150.41	4310.85	-590.51 -
14.90											
17	26	-14.90	3.404e+04	2.08e-03	0.0	0.0	-72.08	0.40	-545.00	4310.85	3.404e+04 -
42.39		-42.39	-2610.43	0.05	11.94	68.0	-72.08	0.40	-533.06	4310.85	-2610.43 -
14.90											
17	27	-23.09	9217.65	3.23e-03	0.0	0.0	-21.16	0.63	-149.18	6677.59	9217.65 -
65.66		-65.66	-521.01	0.01	11.94	68.0	-21.16	0.63	-137.25	6677.59	-521.01 -
23.09											
17	39	11.38	4795.85	0.01	0.0	0.0	30.07	-21.11	-136.31	-2243.84	4795.85
11.38		-1761.95	-4163.34	0.03	11.94	68.0	30.07	-21.11	-124.37	-2243.84	-4163.34 -
1761.95											
17	40	1615.48	4425.69	0.01	0.0	0.0	34.82	-46.14	-130.63	428.94	4425.69
1615.48		-2225.40	-4141.96	0.02	11.94	68.0	34.82	-46.14	-118.69	428.94	-4141.96 -
2225.40											
17	41	2225.40	1.664e+04	-0.01	0.0	0.0	-82.53	46.14	-209.63	-428.94	1.664e+04 -
1615.48		-1615.48	2878.84	6.04e-03	11.94	68.0	-82.53	46.14	-197.69	-428.94	2878.84
2225.40											
17	60	2917.53	8138.13	-6.00e-04	0.0	0.0	0.95	-51.81	-149.66	4182.40	8138.13
2917.53		-1370.52	-1652.25	0.02	11.94	68.0	0.95	-51.81	-137.72	4182.40	-1652.25 -
1370.52											
17	61	1370.52	1.292e+04	6.00e-04	0.0	0.0	-48.66	51.81	-190.60	-4182.40	1.292e+04 -
2917.53		-2917.53	389.13	0.01	11.94	68.0	-48.66	51.81	-178.66	-4182.40	389.13
1370.52											
17	71	-177.50	7714.19	3.53e-03	0.0	0.0	4.24	-9.53	-153.24	-826.78	7714.19 -
177.50		-864.30	-2315.17	0.02	11.94	68.0	4.24	-9.53	-141.30	-826.78	-2315.17 -
864.30											
17	72	647.77	7656.57	3.18e-03	0.0	0.0	5.11	-22.64	-152.36	532.10	7656.57
647.77		-1065.85	-2312.29	0.02	11.94	68.0	5.11	-22.64	-140.42	532.10	-2312.29 -

1065.85 17 647.77	73	1065.85	1.341e+04	-3.18e-03	0.0	0.0	-52.83	22.64	-187.89	-532.10	1.341e+04	-
		-647.77	1049.17	0.01	11.94	68.0	-52.83	22.64	-175.96	-532.10	1049.17	
1065.85 17 1445.99	92	1445.99	9581.42	4.27e-04	0.0	0.0	-13.84	-26.67	-163.46	2220.60	9581.42	
		-625.45	-1131.42	0.02	11.94	68.0	-13.84	-26.67	-151.53	2220.60	-1131.42	-
625.45 17 1445.99	93	625.45	1.148e+04	-4.27e-04	0.0	0.0	-33.87	26.67	-176.79	-2220.60	1.148e+04	-
		-1445.99	-131.70	0.01	11.94	68.0	-33.87	26.67	-164.85	-2220.60	-131.70	
625.45 18 86.92	2	-68.59	4.933e+04	4.67e-03	0.0	0.0	-100.71	0.29	-803.79	6759.52	4.933e+04	-
		-86.92	-1640.14	0.07	14.60	64.0	-100.71	0.29	-789.18	6759.52	-1640.14	-
68.59 18 134.64	7	-106.25	8624.95	7.23e-03	0.0	0.0	-19.32	0.44	-141.74	1.047e+04	8624.95	-
		-134.64	-86.86	0.01	11.23	64.0	-19.32	0.44	-130.51	1.047e+04	-86.86	-
106.25 18 0.0	22	0.0	1.545e+04	0.0	0.0	0.0	-32.85	0.0	-252.61	0.0	1.545e+04	
		0.0	-360.18	0.02	11.23	64.0	-32.85	0.0	-241.38	0.0	-360.18	
0.0 18 15.91	23	-12.55	1.019e+04	8.55e-04	0.0	0.0	-22.44	0.05	-167.24	1237.04	1.019e+04	-
		-15.91	-149.73	0.01	11.23	64.0	-22.44	0.05	-156.01	1237.04	-149.73	-
12.55 18 57.95	26	-45.73	3.430e+04	3.11e-03	0.0	0.0	-70.24	0.19	-559.06	4506.34	3.430e+04	-
		-57.95	-1115.62	0.05	11.23	64.0	-70.24	0.19	-547.82	4506.34	-1115.62	-
45.73 18 89.76	27	-70.84	9286.81	4.82e-03	0.0	0.0	-20.64	0.30	-152.49	6980.41	9286.81	-
		-89.76	-113.37	0.01	11.23	64.0	-20.64	0.30	-141.26	6980.41	-113.37	-
70.84 18 1567.04	39	-1567.04	5292.00	5.47e-03	0.0	0.0	48.08	-17.97	-142.85	-1073.81	5292.00	-
		-1791.39	-3650.00	0.02	11.23	64.0	48.08	-17.97	-131.61	-1073.81	-3650.00	-
1791.39 18 13.82	41	2631.49	1.611e+04	-0.01	0.0	0.0	-92.15	50.57	-207.33	-2238.85	1.611e+04	
		13.82	3242.73	3.55e-03	11.23	64.0	-92.15	50.57	-196.09	-2238.85	3242.73	
2631.49 18 1567.04	42	1791.39	1.593e+04	-5.47e-03	0.0	0.0	-94.61	17.97	-205.17	1073.81	1.593e+04	
		1567.04	3317.20	-3.51e-03	11.23	64.0	-94.61	17.97	-193.93	1073.81	3317.20	
1791.39 18 2957.17	51	882.02	9071.36	-0.01	0.0	0.0	-0.68	46.72	-165.62	-5661.23	9071.36	-
		-2957.17	-1226.83	0.02	11.23	64.0	-0.68	46.72	-154.38	-5661.23	-1226.83	
882.02 18 2957.17	54	2957.17	1.215e+04	0.01	0.0	0.0	-45.84	-46.72	-182.39	5661.23	1.215e+04	
		-882.02	894.03	0.01	11.23	64.0	-45.84	-46.72	-171.16	5661.23	894.03	-
882.02 18 602.11	71	-602.11	8029.25	1.26e-03	0.0	0.0	8.16	-7.64	-159.03	-601.19	8029.25	-
		-889.19	-1817.98	0.02	11.23	64.0	8.16	-7.64	-147.80	-601.19	-1817.98	-
889.19 18 138.24	73	1182.56	1.322e+04	-3.53e-03	0.0	0.0	-54.08	21.87	-189.39	-847.23	1.322e+04	-
		-138.24	1471.87	9.05e-03	11.23	64.0	-54.08	21.87	-178.16	-847.23	1471.87	
1182.56 18 602.11	74	889.19	1.319e+04	-1.26e-03	0.0	0.0	-54.69	7.64	-188.98	601.19	1.319e+04	
		602.11	1485.18	9.00e-03	11.23	64.0	-54.69	7.64	-177.75	601.19	1485.18	
889.19 18 1451.74	83	213.25	9847.29	-5.35e-03	0.0	0.0	-13.64	21.85	-169.71	-2700.15	9847.29	-
		-1451.74	-663.70	0.02	11.23	64.0	-13.64	21.85	-158.48	-2700.15	-663.70	
213.25 18 1451.74	86	1451.74	1.137e+04	5.35e-03	0.0	0.0	-32.89	-21.85	-178.30	2700.15	1.137e+04	

		-213.25	330.90	0.01	11.23	64.0	-32.89	-21.85	-167.07	2700.15	330.90	-
213.25												
19	2	-10.97	4.593e+04	1.75e-03	0.0	0.0	-107.88	-0.15	-989.41	8521.09	4.593e+04	-
10.97		-14.23	2.422e+04	0.01	5.02	22.0	-107.88	-0.15	-984.39	8521.09	2.422e+04	-
14.23												
19	3	-10.97	9277.60	1.75e-03	0.0	0.0	-23.26	-0.15	-193.85	8521.09	9277.60	-
10.97		-14.23	5055.43	2.02e-03	3.86	22.0	-23.26	-0.15	-189.99	8521.09	5055.43	-
14.23												
19	6	-16.99	2.794e+04	2.72e-03	0.0	0.0	-66.64	-0.23	-597.72	1.320e+04	2.794e+04	-
16.99		-22.04	1.484e+04	6.11e-03	5.02	22.0	-66.64	-0.23	-592.70	1.320e+04	1.484e+04	-
22.04												
19	7	-16.99	8119.34	2.72e-03	0.0	0.0	-20.61	-0.23	-168.63	1.320e+04	8119.34	-
16.99		-22.04	4452.00	1.77e-03	3.86	22.0	-20.61	-0.23	-164.77	1.320e+04	4452.00	-
22.04												
19	21	0.0	9961.69	0.0	0.0	0.0	-24.83	0.0	-208.74	0.0	9961.69	-
0.0		0.0	5411.83	2.17e-03	3.86	22.0	-24.83	0.0	-204.88	0.0	5411.83	-
0.0												
19	22	0.0	1.445e+04	0.0	0.0	0.0	-35.12	0.0	-306.47	0.0	1.445e+04	-
0.0		0.0	7750.11	3.16e-03	3.86	22.0	-35.12	0.0	-302.61	0.0	7750.11	-
0.0												
19	23	-2.01	9575.61	3.21e-04	0.0	0.0	-23.95	-0.03	-200.34	1559.42	9575.61	-
2.01		-2.60	5210.69	2.09e-03	3.86	22.0	-23.95	-0.03	-196.47	1559.42	5210.69	-
2.60												
19	25	-7.31	9505.63	1.17e-03	0.0	0.0	-23.79	-0.10	-198.81	5680.73	9505.63	-
7.31		-9.49	5174.23	2.07e-03	3.86	22.0	-23.79	-0.10	-194.95	5680.73	5174.23	-
9.49												
19	26	-7.31	3.195e+04	1.17e-03	0.0	0.0	-75.23	-0.10	-687.44	5680.73	3.195e+04	-
7.31		-9.49	1.687e+04	6.99e-03	3.86	22.0	-75.23	-0.10	-683.58	5680.73	1.687e+04	-
9.49												
19	27	-11.33	8733.46	1.81e-03	0.0	0.0	-22.02	-0.15	-182.00	8799.56	8733.46	-
11.33		-14.69	4771.95	1.91e-03	3.86	22.0	-22.02	-0.15	-178.14	8799.56	4771.95	-
14.69												
19	28	-11.33	1.995e+04	1.81e-03	0.0	0.0	-47.74	-0.15	-426.31	8799.56	1.995e+04	-
11.33		-14.69	1.062e+04	4.36e-03	3.86	22.0	-47.74	-0.15	-422.45	8799.56	1.062e+04	-
14.69												
19	40	-277.71	4578.51	1.04e-04	0.0	0.0	54.29	-55.49	-177.89	2806.09	4578.51	-
277.71		-1402.30	574.96	8.07e-03	3.86	22.0	54.29	-55.49	-174.03	2806.09	574.96	-
1402.30												
19	41	1402.30	1.534e+04	-1.04e-04	0.0	0.0	-103.95	55.49	-239.60	-2806.09	1.534e+04	-
277.71		277.71	1.025e+04	-3.72e-03	3.86	22.0	-103.95	55.49	-235.73	-2806.09	1.025e+04	-
1402.30												
19	42	2585.02	1.551e+04	9.98e-04	0.0	0.0	-95.81	13.49	-244.44	1307.29	1.551e+04	-
2282.98		2282.98	1.016e+04	-3.67e-03	3.86	22.0	-95.81	13.49	-240.58	1307.29	1.016e+04	-
2585.02												
19	59	-2569.30	8049.97	-1.94e-03	0.0	0.0	-15.89	59.65	-190.69	-6630.81	8049.97	-
3726.23		-3726.23	4122.33	3.85e-03	3.86	22.0	-15.89	59.65	-186.82	-6630.81	4122.33	-
2569.30												
19	62	3726.23	1.187e+04	1.94e-03	0.0	0.0	-33.77	-59.65	-226.80	6630.81	1.187e+04	-
3726.23		2569.30	6701.33	5.01e-04	3.86	22.0	-33.77	-59.65	-222.94	6630.81	6701.33	-
2569.30												
19	72	-140.38	7359.03	7.48e-05	0.0	0.0	12.60	-24.14	-193.58	1137.28	7359.03	-
140.38		-658.22	3122.47	4.99e-03	3.86	22.0	12.60	-24.14	-189.72	1137.28	3122.47	-
658.22												
19	73	658.22	1.256e+04	-7.48e-05	0.0	0.0	-62.27	24.14	-223.91	-1137.28	1.256e+04	-
140.38		140.38	7701.19	-9.53e-04	3.86	22.0	-62.27	24.14	-220.05	-1137.28	7701.19	-
658.22												
19	74	1185.51	1.259e+04	3.57e-04	0.0	0.0	-60.96	4.82	-224.64	792.76	1.259e+04	-

1071.79			1071.79	7683.14	-9.48e-04	3.86	22.0	-60.96	4.82	-220.78	792.76	7683.14
1185.51												
19	91	-1155.37	9132.79	-7.57e-04	0.0	0.0	-15.98	27.87	-202.86	-3165.06	9132.79	-
1734.17		-1734.17	4757.81	3.00e-03	3.86	22.0	-15.98	27.87	-199.00	-3165.06	4757.81	-
1155.37												
19	94	1734.17	1.079e+04	7.57e-04	0.0	0.0	-33.68	-27.87	-214.63	3165.06	1.079e+04	
1734.17		1155.37	6065.85	1.35e-03	3.86	22.0	-33.68	-27.87	-210.77	3165.06	6065.85	
1155.37												
20	2	13.20	4.545e+04	5.19e-03	0.0	0.0	-100.58	-0.09	-608.31	5058.59	4.545e+04	
13.20		3.31	-2.009e+04	0.13	25.10	110.0	-100.58	-0.09	-583.21	5058.59	-2.009e+04	
3.31												
20	7	20.45	8065.91	8.04e-03	0.0	0.0	-19.55	-0.14	-113.35	7835.85	8065.91	
20.45		5.13	-3340.97	0.02	19.31	110.0	-19.55	-0.14	-94.04	7835.85	-3340.97	
5.13												
20	22	0.0	1.432e+04	0.0	0.0	0.0	-33.00	0.0	-195.85	0.0	1.432e+04	
0.0		0.0	-6158.56	0.04	19.31	110.0	-33.00	0.0	-176.54	0.0	-6158.56	
0.0												
20	23	2.42	9505.24	9.50e-04	0.0	0.0	-22.64	-0.02	-132.33	925.75	9505.24	
2.42		0.61	-3989.12	0.03	19.31	110.0	-22.64	-0.02	-113.02	925.75	-3989.12	
0.61												
20	26	8.80	3.162e+04	3.46e-03	0.0	0.0	-70.18	-0.06	-423.86	3372.39	3.162e+04	
8.80		2.21	-1.395e+04	0.09	19.31	110.0	-70.18	-0.06	-404.55	3372.39	-1.395e+04	
2.21												
20	27	13.64	8672.88	5.36e-03	0.0	0.0	-20.85	-0.09	-121.36	5223.90	8672.88	
13.64		3.42	-3614.30	0.03	19.31	110.0	-20.85	-0.09	-102.05	5223.90	-3614.30	
3.42												
20	39	505.98	4246.65	-1.68e-03	0.0	0.0	29.76	-20.20	-103.90	-1840.17	4246.65	
505.98		-1573.99	-6236.54	0.04	19.31	110.0	29.76	-20.20	-84.59	-1840.17	-6236.54	-
1573.99												
20	40	2039.17	4327.30	1.16e-03	0.0	0.0	26.90	-39.22	-105.30	717.57	4327.30	
2039.17		-2497.58	-6311.63	0.04	19.31	110.0	26.90	-39.22	-85.99	717.57	-6311.63	-
2497.58												
20	42	1573.99	1.553e+04	1.68e-03	0.0	0.0	-76.68	20.20	-170.82	1840.17	1.553e+04	-
505.98		-505.98	-2085.37	0.02	19.31	110.0	-76.68	20.20	-151.51	1840.17	-2085.37	
1573.99												
20	52	3758.00	8265.18	0.01	0.0	0.0	-9.36	-53.54	-128.51	5479.90	8265.18	
3758.00		-2536.63	-4844.69	0.03	19.31	110.0	-9.36	-53.54	-109.20	5479.90	-4844.69	-
2536.63												
20	53	2536.63	1.151e+04	-0.01	0.0	0.0	-37.57	53.54	-146.22	-5479.90	1.151e+04	-
3758.00		-3758.00	-3477.22	0.03	19.31	110.0	-37.57	53.54	-126.91	-5479.90	-3477.22	-
2536.63												
20	71	245.76	7186.24	-8.59e-04	0.0	0.0	-1.04	-9.48	-121.52	-641.12	7186.24	
245.76		-753.14	-5138.54	0.03	19.31	110.0	-1.04	-9.48	-102.22	-641.12	-5138.54	-
753.14												
20	72	962.37	7199.77	7.57e-04	0.0	0.0	-1.61	-18.51	-121.76	476.94	7199.77	
962.37		-1120.72	-5151.57	0.03	19.31	110.0	-1.61	-18.51	-102.46	476.94	-5151.57	-
1120.72												
20	74	753.14	1.259e+04	8.59e-04	0.0	0.0	-45.88	9.48	-153.20	641.12	1.259e+04	-
245.76		-245.76	-3183.38	0.02	19.31	110.0	-45.88	9.48	-133.89	641.12	-3183.38	
753.14												
20	84	1738.72	9087.39	6.40e-03	0.0	0.0	-17.07	-24.99	-132.79	2433.95	9087.39	
1738.72		-1142.64	-4463.87	0.03	19.31	110.0	-17.07	-24.99	-113.49	2433.95	-4463.87	-
1142.64												
20	85	1142.64	1.069e+04	-6.40e-03	0.0	0.0	-29.86	24.99	-141.93	-2433.95	1.069e+04	-
1738.72		-1738.72	-3858.05	0.03	19.31	110.0	-29.86	24.99	-122.62	-2433.95	-3858.05	-
1142.64												

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21 14.89	2	-13.65 4.531e+04	5.52e-03	0.0	0.0	-106.04	0.01	-614.06	5124.81	4.531e+04	-		
13.65		-14.89 -1.967e+04	0.13	24.64	108.0	-106.04	0.01	-589.42	5124.81	-1.967e+04	-		
21 23.06	7	-21.15 8028.15	8.56e-03	0.0	0.0	-20.52	0.02	-114.08	7938.43	8028.15	-		
21.15		-23.06 -3269.11	0.02	18.96	108.0	-20.52	0.02	-95.13	7938.43	-3269.11	-		
21 0.0	22	0.0 1.427e+04	0.0	0.0	0.0	-34.72	0.0	-197.44	0.0	1.427e+04			
0.0		0.0 -6029.71	0.04	18.96	108.0	-34.72	0.0	-178.48	0.0	-6029.71			
21 2.72	23	-2.50 9463.98	1.01e-03	0.0	0.0	-23.79	2.09e-03	-133.26	937.87	9463.98	-		
2.50		-2.72 -3904.15	0.03	18.96	108.0	-23.79	2.09e-03	-114.30	937.87	-3904.15	-		
21 9.92	26	-9.10 3.152e+04	3.68e-03	0.0	0.0	-73.98	7.60e-03	-427.82	3416.54	3.152e+04	-		
9.10		-9.92 -1.366e+04	0.09	18.96	108.0	-73.98	7.60e-03	-408.86	3416.54	-1.366e+04	-		
21 15.37	27	-14.10 8633.65	5.70e-03	0.0	0.0	-21.90	0.01	-122.17	5292.29	8633.65	-		
14.10		-15.37 -3536.91	0.02	18.96	108.0	-21.90	0.01	-103.21	5292.29	-3536.91	-		
21 192.23	39	192.23 4352.31	0.01	0.0	0.0	21.15	-15.41	-107.08	-2351.40	4352.31			
1408.89		-1408.89 -6280.82	0.04	18.96	108.0	21.15	-15.41	-88.13	-2351.40	-6280.82	-		
21 2333.58	40	2333.58 4080.15	0.01	0.0	0.0	30.21	-44.33	-103.70	972.67	4080.15			
2614.16		-2614.16 -6186.25	0.04	18.96	108.0	30.21	-44.33	-84.74	972.67	-6186.25	-		
21 2333.58	41	2614.16 1.561e+04	-0.01	0.0	0.0	-79.52	44.33	-172.98	-972.67	1.561e+04	-		
2614.16		-2333.58 -1958.77	0.02	18.96	108.0	-79.52	44.33	-154.03	-972.67	-1958.77			
21 3947.79	60	3947.79 7702.52	0.01	0.0	0.0	5.55	-57.15	-122.81	5333.31	7702.52			
2612.25		-2612.25 -4563.21	0.03	18.96	108.0	5.55	-57.15	-103.86	5333.31	-4563.21	-		
21 3947.79	61	2612.25 1.199e+04	-0.01	0.0	0.0	-54.85	57.15	-153.87	-5333.31	1.199e+04	-		
2612.25		-3947.79 -3581.81	0.03	18.96	108.0	-54.85	57.15	-134.91	-5333.31	-3581.81			
21 93.46	71	93.46 7164.67	1.25e-03	0.0	0.0	-1.17	-7.51	-122.81	-816.80	7164.67			
683.77		-683.77 -5093.30	0.03	18.96	108.0	-1.17	-7.51	-103.85	-816.80	-5093.30	-		
21 1068.09	72	1068.09 7124.05	3.87e-03	0.0	0.0	0.30	-20.42	-122.31	645.00	7124.05			
1174.30		-1174.30 -5079.68	0.03	18.96	108.0	0.30	-20.42	-103.35	645.00	-5079.68	-		
21 1068.09	73	1174.30 1.257e+04	-3.87e-03	0.0	0.0	-49.61	20.42	-154.38	-645.00	1.257e+04	-		
1174.30		-1068.09 -3065.34	0.02	18.96	108.0	-49.61	20.42	-135.42	-645.00	-3065.34			
21 1798.62	92	1798.62 8966.86	5.32e-03	0.0	0.0	-14.94	-25.71	-132.77	2410.57	8966.86			
1096.25		-1096.25 -4354.00	0.03	18.96	108.0	-14.94	-25.71	-113.81	2410.57	-4354.00	-		
21 1798.62	93	1096.25 1.072e+04	-5.32e-03	0.0	0.0	-34.36	25.71	-143.91	-2410.57	1.072e+04	-		
1096.25		-1798.62 -3791.02	0.03	18.96	108.0	-34.36	25.71	-124.95	-2410.57	-3791.02			
22 18.40	2	-13.78 4.680e+04	1.87e-03	0.0	0.0	-114.17	0.19	-983.61	8454.44	4.680e+04	-		
13.78		-18.40 2.325e+04	0.01	5.48	24.0	-114.17	0.19	-978.13	8454.44	2.325e+04	-		
22 18.40	3	-13.78 9446.89	1.87e-03	0.0	0.0	-24.62	0.19	-192.97	8454.44	9446.89	-		
13.78		-18.40 4866.13	2.27e-03	4.21	24.0	-24.62	0.19	-188.76	8454.44	4866.13	-		
22 28.50	6	-21.34 2.846e+04	2.90e-03	0.0	0.0	-70.53	0.30	-594.40	1.310e+04	2.846e+04	-		
		-28.50 1.426e+04	6.87e-03	5.48	24.0	-70.53	0.30	-588.92	1.310e+04	1.426e+04	-		

21.34 28.50	7	-21.34	8266.47	2.90e-03	0.0	0.0	-21.81	0.30	-167.91	1.310e+04	8266.47	-
21.34		-28.50	4287.16	1.99e-03	4.21	24.0	-21.81	0.30	-163.70	1.310e+04	4287.16	-
22 0.0	21	0.0	1.014e+04	0.0	0.0	0.0	-26.28	0.0	-207.77	0.0	1.014e+04	
0.0		0.0	5208.09	2.44e-03	4.21	24.0	-26.28	0.0	-203.56	0.0	5208.09	
22 0.0	22	0.0	1.472e+04	0.0	0.0	0.0	-37.17	0.0	-304.88	0.0	1.472e+04	
0.0		0.0	7451.61	3.55e-03	4.21	24.0	-37.17	0.0	-300.67	0.0	7451.61	
22 3.37	23	-2.52	9750.60	3.42e-04	0.0	0.0	-25.34	0.04	-199.42	1547.22	9750.60	-
2.52		-3.37	5015.10	2.34e-03	4.21	24.0	-25.34	0.04	-195.21	1547.22	5015.10	-
22 12.27	25	-9.19	9679.28	1.25e-03	0.0	0.0	-25.17	0.13	-197.90	5636.29	9679.28	-
9.19		-12.27	4980.12	2.33e-03	4.21	24.0	-25.17	0.13	-193.69	5636.29	4980.12	-
22 12.27	26	-9.19	3.255e+04	1.25e-03	0.0	0.0	-79.62	0.13	-683.44	5636.29	3.255e+04	-
9.19		-12.27	1.620e+04	7.86e-03	4.21	24.0	-79.62	0.13	-679.23	5636.29	1.620e+04	-
22 19.00	27	-14.23	8892.34	1.93e-03	0.0	0.0	-23.30	0.20	-181.20	8730.73	8892.34	-
14.23		-19.00	4594.14	2.14e-03	4.21	24.0	-23.30	0.20	-176.99	8730.73	4594.14	-
22 19.00	28	-14.23	2.033e+04	1.93e-03	0.0	0.0	-50.52	0.20	-423.97	8730.73	2.033e+04	-
14.23		-19.00	1.020e+04	4.90e-03	4.21	24.0	-50.52	0.20	-419.75	8730.73	1.020e+04	-
22 1928.06	39	-1928.06	4570.39	-0.01	0.0	0.0	58.43	-13.14	-171.05	-3112.62	4570.39	-
2357.87		-2357.87	444.88	8.71e-03	4.21	24.0	58.43	-13.14	-166.84	-3112.62	444.88	-
22 1928.06	42	2357.87	1.572e+04	0.01	0.0	0.0	-110.99	13.14	-244.49	3112.62	1.572e+04	
2357.87		1928.06	9971.30	-3.83e-03	4.21	24.0	-110.99	13.14	-240.28	3112.62	9971.30	
22 3993.37	51	-2617.10	8397.62	-8.50e-03	0.0	0.0	0.29	63.51	-194.65	-8472.37	8397.62	-
2617.10		-3993.37	3736.70	4.35e-03	4.21	24.0	0.29	63.51	-190.44	-8472.37	3736.70	-
22 3993.37	54	3993.37	1.189e+04	8.50e-03	0.0	0.0	-52.85	-63.51	-220.89	8472.37	1.189e+04	
2617.10		2617.10	6679.48	5.29e-04	4.21	24.0	-52.85	-63.51	-216.68	8472.37	6679.48	
22 906.71	71	-906.71	7506.38	-3.32e-03	0.0	0.0	9.71	-6.84	-191.61	-1019.25	7506.38	-
1089.52		-1089.52	2949.74	5.42e-03	4.21	24.0	9.71	-6.84	-187.40	-1019.25	2949.74	-
22 906.71	74	1089.52	1.278e+04	3.32e-03	0.0	0.0	-62.27	6.84	-223.93	1019.25	1.278e+04	
1089.52		906.71	7466.44	-1.00e-03	4.21	24.0	-62.27	6.84	-219.72	1019.25	7466.44	
22 1803.93	83	-1146.27	9339.57	-2.30e-03	0.0	0.0	-15.35	28.82	-202.48	-3527.02	9339.57	-
1146.27		-1803.93	4525.18	3.34e-03	4.21	24.0	-15.35	28.82	-198.27	-3527.02	4525.18	-
22 1803.93	86	1803.93	1.095e+04	2.30e-03	0.0	0.0	-37.21	-28.82	-213.07	3527.02	1.095e+04	
1146.27		1146.27	5891.00	1.54e-03	4.21	24.0	-37.21	-28.82	-208.85	3527.02	5891.00	
23 48.84	2	48.84	4.895e+04	3.95e-03	0.0	0.0	-118.16	-0.18	-809.88	6824.09	4.895e+04	
37.52		37.52	-828.85	0.06	14.15	62.0	-118.16	-0.18	-795.73	6824.09	-828.85	
23 48.84	4	48.84	4.579e+04	3.95e-03	0.0	0.0	-110.02	-0.18	-757.37	6824.09	4.579e+04	
37.52		37.52	-830.31	0.06	10.88	62.0	-110.02	-0.18	-746.49	6824.09	-830.31	
23 75.66	5	75.66	1.171e+04	6.12e-03	0.0	0.0	-30.67	-0.28	-195.01	1.057e+04	1.171e+04	

58.13		58.13	53.00	0.02	14.15	62.0	-30.67	-0.28	-180.87	1.057e+04	53.00	
23	7	75.66	8549.36	6.12e-03	0.0	0.0	-22.52	-0.28	-142.50	1.057e+04	8549.36	
75.66												
		58.13	51.54	0.01	10.88	62.0	-22.52	-0.28	-131.62	1.057e+04	51.54	
58.13	22	0.0	1.532e+04	0.0	0.0	0.0	-38.43	0.0	-254.29	0.0	1.532e+04	
23		0.0	-108.79	0.02	10.88	62.0	-38.43	0.0	-243.41	0.0	-108.79	
0.0	23	8.94	1.011e+04	7.23e-04	0.0	0.0	-26.18	-0.03	-168.22	1248.85	1.011e+04	
8.94		6.87	14.66	0.01	10.88	62.0	-26.18	-0.03	-157.34	1248.85	14.66	
6.87	26	32.56	3.403e+04	2.63e-03	0.0	0.0	-82.40	-0.12	-563.26	4549.39	3.403e+04	
23		25.02	-551.91	0.04	10.88	62.0	-82.40	-0.12	-552.38	4549.39	-551.91	
32.56	27	50.44	9206.15	4.08e-03	0.0	0.0	-24.06	-0.19	-153.35	7047.10	9206.15	
		38.75	35.99	0.01	10.88	62.0	-24.06	-0.19	-142.46	7047.10	35.99	
38.75	39	-1735.44	4880.89	-3.76e-03	0.0	0.0	35.83	-9.90	-140.77	-3407.65	4880.89	-
23		-1802.53	-3606.90	0.02	10.88	62.0	35.83	-9.90	-129.89	-3407.65	-3606.90	-
1735.44	40	794.31	5051.42	3.29e-04	0.0	0.0	44.48	-51.03	-143.71	772.15	5051.42	
		-2636.76	-3582.83	0.02	10.88	62.0	44.48	-51.03	-132.83	772.15	-3582.83	-
1802.53	41	2636.76	1.599e+04	-3.29e-04	0.0	0.0	-98.78	51.03	-206.36	-772.15	1.599e+04	-
23		-794.31	3592.59	-3.61e-03	10.88	62.0	-98.78	51.03	-195.48	-772.15	3592.59	
794.31	42	1802.53	1.616e+04	3.76e-03	0.0	0.0	-90.14	9.90	-209.30	3407.65	1.616e+04	
2636.76		1735.44	3616.66	-3.51e-03	10.88	62.0	-90.14	9.90	-198.42	3407.65	3616.66	
23	59	724.50	8569.46	-6.47e-03	0.0	0.0	-21.36	59.41	-160.30	-7361.66	8569.46	-
794.31		-4357.43	-1115.17	0.02	10.88	62.0	-21.36	59.41	-149.42	-7361.66	-1115.17	
2636.76	62	4357.43	1.247e+04	6.47e-03	0.0	0.0	-32.94	-59.41	-189.77	7361.66	1.247e+04	
23		-724.50	1124.93	0.01	10.88	62.0	-32.94	-59.41	-178.89	7361.66	1124.93	-
1735.44	71	-693.52	7835.86	-7.61e-04	0.0	0.0	5.09	-4.93	-159.24	-1108.41	7835.86	-
		-826.17	-1720.48	0.02	10.88	62.0	5.09	-4.93	-148.36	-1108.41	-1720.48	-
1802.53	72	446.65	7862.93	6.71e-04	0.0	0.0	6.46	-23.25	-159.72	680.67	7862.93	
23		-1128.78	-1715.91	0.02	10.88	62.0	6.46	-23.25	-148.83	680.67	-1715.91	-
4357.43	73	1128.78	1.318e+04	-6.71e-04	0.0	0.0	-60.76	23.25	-190.36	-680.67	1.318e+04	-
		-446.65	1725.67	8.28e-03	10.88	62.0	-60.76	23.25	-179.47	-680.67	1725.67	
724.50	74	826.17	1.320e+04	7.61e-04	0.0	0.0	-59.39	4.93	-190.83	1108.41	1.320e+04	
23		693.52	1730.23	8.35e-03	10.88	62.0	-59.39	4.93	-179.95	1108.41	1730.23	
4357.43	91	211.10	9673.51	-2.35e-03	0.0	0.0	-19.55	26.30	-169.58	-3045.95	9673.51	-
		-1937.31	-519.64	0.01	10.88	62.0	-19.55	26.30	-158.70	-3045.95	-519.64	
211.10	94	1937.31	1.137e+04	2.35e-03	0.0	0.0	-34.75	-26.30	-180.49	3045.95	1.137e+04	
23		-211.10	529.40	0.01	10.88	62.0	-34.75	-26.30	-169.61	3045.95	529.40	-
1937.31	2	49.15	4.917e+04	4.59e-03	0.0	0.0	-119.56	-0.59	-775.39	6461.72	4.917e+04	
		7.58	-4550.72	0.07	15.97	70.0	-119.56	-0.59	-759.42	6461.72	-4550.72	
7.58	3	49.15	9840.54	4.59e-03	0.0	0.0	-25.79	-0.59	-157.05	6461.72	9840.54	
24												

49.15			7.58	-722.58	0.01	12.29	70.0	-25.79	-0.59	-144.76	6461.72	-722.58
7.58		6	76.13	2.985e+04	7.12e-03	0.0	0.0	-73.86	-0.92	-471.97	1.001e+04	2.985e+04
24			11.74	-2632.47	0.04	15.97	70.0	-73.86	-0.92	-456.00	1.001e+04	-2632.47
76.13			76.13	8596.51	7.12e-03	0.0	0.0	-22.85	-0.92	-137.51	1.001e+04	8596.51
11.74		7	11.74	-599.07	0.01	12.29	70.0	-22.85	-0.92	-125.22	1.001e+04	-599.07
24			0.0	1.058e+04	0.0	0.0	0.0	-27.53	0.0	-168.58	0.0	1.058e+04
76.13			0.0	-795.53	0.02	12.29	70.0	-27.53	0.0	-156.30	0.0	-795.53
11.74		21	0.0	1.540e+04	0.0	0.0	0.0	-38.93	0.0	-244.29	0.0	1.540e+04
24			0.0	-1274.13	0.02	12.29	70.0	-38.93	0.0	-232.00	0.0	-1274.13
0.0			8.99	1.016e+04	8.41e-04	0.0	0.0	-26.55	-0.11	-162.07	1182.54	1.016e+04
0.0		22	1.39	-754.36	0.02	12.29	70.0	-26.55	-0.11	-149.78	1182.54	-754.36
24			32.76	1.009e+04	3.06e-03	0.0	0.0	-26.37	-0.40	-160.89	4307.81	1.009e+04
8.99			5.05	-746.90	0.01	12.29	70.0	-26.37	-0.40	-148.60	4307.81	-746.90
1.39		25	32.76	3.419e+04	3.06e-03	0.0	0.0	-83.38	-0.40	-539.41	4307.81	3.419e+04
24			5.05	-3139.89	0.05	12.29	70.0	-83.38	-0.40	-527.12	4307.81	-3139.89
32.76			50.75	9256.10	4.74e-03	0.0	0.0	-24.41	-0.61	-147.87	6672.88	9256.10
5.05		26	7.83	-664.56	0.01	12.29	70.0	-24.41	-0.61	-135.58	6672.88	-664.56
24			50.75	2.131e+04	4.74e-03	0.0	0.0	-52.91	-0.61	-337.12	6672.88	2.131e+04
8.99			7.83	-1861.05	0.03	12.29	70.0	-52.91	-0.61	-324.84	6672.88	-1861.05
1.39		27	-279.25	5097.95	-7.83e-03	0.0	0.0	43.48	-27.01	-136.49	1102.34	5097.95
24			-2208.90	-4090.53	0.03	12.29	70.0	43.48	-27.01	-124.20	1102.34	-4090.53
279.25			1221.72	5026.53	-6.36e-03	0.0	0.0	38.53	-52.15	-135.23	3488.53	5026.53
2208.90		40	-2612.27	-4119.36	0.03	12.29	70.0	38.53	-52.15	-122.95	3488.53	-4119.36
24			2612.27	1.612e+04	6.36e-03	0.0	0.0	-93.58	52.15	-201.93	-3488.53	1.612e+04
1221.72			-1221.72	2528.30	4.48e-03	12.29	70.0	-93.58	52.15	-189.65	-3488.53	2528.30
2612.27		41	2208.90	1.605e+04	7.83e-03	0.0	0.0	-98.53	27.01	-200.68	-1102.34	1.605e+04
24			279.25	2499.48	4.56e-03	12.29	70.0	-98.53	27.01	-188.39	-1102.34	2499.48
279.25		42	4432.53	8893.75	9.26e-03	0.0	0.0	-8.72	-84.89	-158.39	6805.80	8893.75
2208.90			-1995.90	-1802.32	0.02	12.29	70.0	-8.72	-84.89	-146.10	6805.80	-1802.32
24		52	1995.90	1.226e+04	-9.26e-03	0.0	0.0	-46.34	84.89	-178.78	-6805.80	1.226e+04
4432.53			-4432.53	211.26	0.01	12.29	70.0	-46.34	84.89	-166.49	-6805.80	211.26
1995.90		53	-217.26	7964.97	-1.33e-03	0.0	0.0	1.08	-10.57	-153.58	-43.76	7964.97
24			-934.76	-2368.86	0.02	12.29	70.0	1.08	-10.57	-141.29	-43.76	-2368.86
217.26			465.02	7953.13	-3.97e-04	0.0	0.0	0.14	-21.46	-153.37	1080.67	7953.13
934.76		72	-1093.57	-2374.18	0.02	12.29	70.0	0.14	-21.46	-141.08	1080.67	-2374.18
24			1093.57	1.320e+04	3.97e-04	0.0	0.0	-55.19	21.46	-183.80	-1080.67	1.320e+04
465.02		73	-465.02	783.12	0.01	12.29	70.0	-55.19	21.46	-171.51	-1080.67	783.12
1093.57												

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24	74	934.76	1.319e+04	1.33e-03	0.0	0.0	-56.14	10.57	-183.59	43.76	1.319e+04		
217.26		217.26	777.81	0.01	12.29	70.0	-56.14	10.57	-171.31	43.76	777.81		
934.76													
24	84	1941.56	9786.50	5.18e-03	0.0	0.0	-19.34	-35.09	-164.01	3075.51	9786.50		
1941.56		-733.54	-1270.54	0.02	12.29	70.0	-19.34	-35.09	-151.72	3075.51	-1270.54	-	
733.54													
24	85	733.54	1.136e+04	-5.18e-03	0.0	0.0	-35.71	35.09	-173.16	-3075.51	1.136e+04	-	
1941.56		-1941.56	-320.51	0.01	12.29	70.0	-35.71	35.09	-160.87	-3075.51	-320.51	-	
733.54													
25	2	-149.21	4.538e+04	1.58e-03	0.0	0.0	-122.11	0.59	-1018.08	8816.21	4.538e+04	-	
158.71		-158.71	2.912e+04	4.53e-03	3.65	16.0	-122.11	0.59	-1014.43	8816.21	2.912e+04	-	
149.21													
25	3	-149.21	9211.79	1.58e-03	0.0	0.0	-26.31	0.59	-198.88	8816.21	9211.79	-	
158.71		-158.71	6052.21	9.02e-04	2.81	16.0	-26.31	0.59	-196.07	8816.21	6052.21	-	
149.21													
25	5	-231.13	1.104e+04	2.45e-03	0.0	0.0	-31.73	0.92	-237.17	1.366e+04	1.104e+04	-	
245.84		-245.84	7269.87	1.08e-03	3.65	16.0	-31.73	0.92	-233.52	1.366e+04	7269.87	-	
231.13													
25	7	-231.13	8069.38	2.45e-03	0.0	0.0	-23.30	0.92	-172.90	1.366e+04	8069.38	-	
245.84		-245.84	5325.43	7.87e-04	2.81	16.0	-23.30	0.92	-170.09	1.366e+04	5325.43	-	
231.13													
25	21	0.0	9886.53	0.0	0.0	0.0	-28.08	0.0	-214.22	0.0	9886.53		
0.0		0.0	6481.47	9.70e-04	2.81	16.0	-28.08	0.0	-211.41	0.0	6481.47		
25													
0.0	22	0.0	1.431e+04	0.0	0.0	0.0	-39.73	0.0	-314.88	0.0	1.431e+04		
0.0		0.0	9297.77	1.41e-03	2.81	16.0	-39.73	0.0	-312.07	0.0	9297.77		
25													
29.04	23	-27.31	9505.72	2.90e-04	0.0	0.0	-27.08	0.11	-205.56	1613.42	9505.72	-	
27.31		-29.04	6239.21	9.31e-04	2.81	16.0	-27.08	0.11	-202.75	1613.42	6239.21	-	
25	25	-99.47	9436.70	1.06e-03	0.0	0.0	-26.90	0.40	-203.99	5877.48	9436.70	-	
105.80		-105.80	6195.30	9.24e-04	2.81	16.0	-26.90	0.40	-201.18	5877.48	6195.30	-	
99.47													
25	26	-99.47	3.157e+04	1.06e-03	0.0	0.0	-85.15	0.40	-707.28	5877.48	3.157e+04	-	
105.80		-105.80	2.028e+04	3.15e-03	2.81	16.0	-85.15	0.40	-704.47	5877.48	2.028e+04	-	
99.47													
25	27	-154.09	8675.10	1.63e-03	0.0	0.0	-24.90	0.61	-186.67	9104.33	8675.10	-	
163.89		-163.89	5710.78	8.48e-04	2.81	16.0	-24.90	0.61	-183.87	9104.33	5710.78	-	
154.09													
25	40	-609.59	4554.12	6.35e-03	0.0	0.0	68.08	-69.11	-175.75	4392.82	4554.12	-	
609.59		-1385.36	1688.15	5.33e-03	2.81	16.0	68.08	-69.11	-172.94	4392.82	1688.15	-	
1385.36													
25	41	1385.36	1.522e+04	-6.35e-03	0.0	0.0	-124.25	69.11	-252.69	-4392.82	1.522e+04		
609.59		609.59	1.127e+04	-3.40e-03	2.81	16.0	-124.25	69.11	-249.89	-4392.82	1.127e+04		
1385.36													
25	59	-3783.65	8508.38	-1.41e-03	0.0	0.0	-9.13	54.56	-214.14	-7226.04	8508.38	-	
4373.86		-4373.86	5099.79	2.13e-03	2.81	16.0	-9.13	54.56	-211.33	-7226.04	5099.79	-	
3783.65													
25	62	4373.86	1.126e+04	1.41e-03	0.0	0.0	-47.04	-54.56	-214.30	7226.04	1.126e+04		
4373.86		3783.65	7863.16	-4.03e-04	2.81	16.0	-47.04	-54.56	-211.50	7226.04	7863.16		
3783.65													
25	72	-157.85	7336.24	1.85e-03	0.0	0.0	15.01	-27.86	-198.10	1562.40	7336.24	-	
157.85		-533.10	4182.94	3.02e-03	2.81	16.0	15.01	-27.86	-195.29	1562.40	4182.94	-	
533.10													
25	73	533.10	1.244e+04	-1.85e-03	0.0	0.0	-71.18	27.86	-230.34	-1562.40	1.244e+04		
157.85		157.85	8780.01	-1.09e-03	2.81	16.0	-71.18	27.86	-227.53	-1562.40	8780.01		

533.10 25 2049.26	91	-1626.57	9156.84	-3.26e-04	0.0	0.0	-16.73	30.28	-211.20	-3495.90	9156.84 -
		-2049.26	5800.78	1.56e-03	2.81	16.0	-16.73	30.28	-208.39	-3495.90	5800.78 -
1626.57 25 2049.26	94	2049.26	1.062e+04	3.26e-04	0.0	0.0	-39.44	-30.28	-217.24	3495.90	1.062e+04
		1626.57	7162.16	3.79e-04	2.81	16.0	-39.44	-30.28	-214.43	3495.90	7162.16
1626.57 26 4071.11	1	-6.94	0.0	4.87e-03	-6.85	0.0	0.0	138.89	0.0	5092.66	0.0 -
		-4071.11	0.0	1.67e-04	0.0	30.0	0.0	132.05	0.0	5092.66	0.0 -
6.94 26 1.730e+04	2	-6.94	0.0	0.02	-6.85	0.0	0.0	579.71	0.0	5092.66	0.0 -
		-1.730e+04	0.0	1.67e-04	0.0	30.0	0.0	572.87	0.0	5092.66	0.0 -
6.94 26 1.023e+04	6	-6.94	0.0	0.01	-6.85	0.0	0.0	344.14	0.0	7888.62	0.0 -
		-1.023e+04	0.0	2.58e-04	0.0	30.0	0.0	337.29	0.0	7888.62	0.0 -
6.94 26 2614.56	7	-5.34	0.0	3.31e-03	-5.27	0.0	0.0	89.61	0.0	7888.62	0.0 -
		-2614.56	0.0	2.58e-04	0.0	30.0	0.0	84.34	0.0	7888.62	0.0 -
5.34 26 3338.36	21	-5.34	0.0	3.92e-03	-5.27	0.0	0.0	113.73	0.0	0.0	0.0 -
		-3338.36	0.0	0.0	0.0	30.0	0.0	108.47	0.0	0.0	0.0 -
5.34 26 5101.64	22	-5.34	0.0	5.42e-03	-5.27	0.0	0.0	172.51	0.0	0.0	0.0 -
		-5101.64	0.0	0.0	0.0	30.0	0.0	167.24	0.0	0.0	0.0 -
5.34 26 3186.68	23	-5.34	0.0	3.79e-03	-5.27	0.0	0.0	108.68	0.0	931.99	0.0 -
		-3186.68	0.0	3.05e-05	0.0	30.0	0.0	103.41	0.0	931.99	0.0 -
5.34 26 3159.19	25	-5.34	0.0	3.77e-03	-5.27	0.0	0.0	107.76	0.0	3395.10	0.0 -
		-3159.19	0.0	1.11e-04	0.0	30.0	0.0	102.50	0.0	3395.10	0.0 -
5.34 26 1.198e+04	26	-5.34	0.0	0.01	-5.27	0.0	0.0	401.64	0.0	3395.10	0.0 -
		-1.198e+04	0.0	1.11e-04	0.0	30.0	0.0	396.38	0.0	3395.10	0.0 -
5.34 26 2855.83	27	-5.34	0.0	3.51e-03	-5.27	0.0	0.0	97.65	0.0	5259.08	0.0 -
		-2855.83	0.0	1.72e-04	0.0	30.0	0.0	92.38	0.0	5259.08	0.0 -
5.34 26 7264.03	28	-5.34	0.0	7.26e-03	-5.27	0.0	0.0	244.59	0.0	5259.08	0.0 -
		-7264.03	0.0	1.72e-04	0.0	30.0	0.0	239.32	0.0	5259.08	0.0 -
5.34 26 3928.62	39	-270.93	-5241.52	-0.01	-5.27	0.0	46.09	93.32	-9.22	735.31	-5598.38 -
		-3928.62	-5598.38	-6.11e-03	0.0	30.0	46.09	88.05	-9.22	735.31	-5241.52 -
270.93 26 4065.19	40	-282.28	-3751.95	-9.85e-03	-5.27	0.0	44.26	97.51	-19.23	3031.75	-4029.58 -
		-4065.19	-4029.58	-4.65e-03	0.0	30.0	44.26	92.24	-19.23	3031.75	-3751.95 -
282.28 26 2611.52	41	271.60	4029.58	0.02	-5.27	0.0	-44.26	129.96	19.23	-3031.75	4029.58 -
		-2611.52	3751.95	4.65e-03	0.0	30.0	-44.26	124.69	19.23	-3031.75	3751.95
271.60 26 2748.10	42	260.25	5598.38	0.02	-5.27	0.0	-46.09	134.15	9.22	-735.31	5598.38 -
		-2748.10	5241.52	6.11e-03	0.0	30.0	-46.09	128.88	9.22	-735.31	5241.52
260.25 26 3481.81	51	-83.20	-7151.48	-2.90e-04	-5.27	0.0	13.00	106.54	46.67	-4657.69	-7696.93 -
		-3481.81	-7696.93	-0.01	0.0	30.0	13.00	101.28	46.67	-4657.69	-7151.48 -
83.20 26 3194.91	54	72.52	7696.93	8.13e-03	-5.27	0.0	-13.00	120.93	-46.67	4657.69	7696.93 -

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		-3194.91	7151.48	0.01	0.0	30.0	-13.00	115.66	-46.67	4657.69	7151.48
72.52											
26	71	-121.35	-2071.56	-2.73e-03	-5.27	0.0	19.65	107.87	-3.44	291.31	-2232.49 -
3550.40											
		-3550.40	-2232.49	-4.40e-03	0.0	30.0	19.65	102.60	-3.44	291.31	-2071.56 -
121.35											
26	72	-123.38	-1511.65	-2.70e-03	-5.27	0.0	19.33	108.72	-7.96	1161.04	-1626.25 -
3577.90											
		-3577.90	-1626.25	-4.59e-03	0.0	30.0	19.33	103.45	-7.96	1161.04	-1511.65 -
123.38											
26	73	112.70	1626.25	0.01	-5.27	0.0	-19.33	118.75	7.96	-1161.04	1626.25 -
3098.81											
		-3098.81	1511.65	4.59e-03	0.0	30.0	-19.33	113.48	7.96	-1161.04	1511.65
112.70											
26	74	110.67	2232.49	0.01	-5.27	0.0	-19.65	119.60	3.44	-291.31	2232.49 -
3126.31											
		-3126.31	2071.56	4.40e-03	0.0	30.0	-19.65	114.34	3.44	-291.31	2071.56
110.67											
26	83	-39.99	-2570.60	1.92e-03	-5.27	0.0	5.78	111.81	16.68	-1937.13	-2832.15 -
3396.99											
		-3396.99	-2832.15	-2.25e-03	0.0	30.0	5.78	106.55	16.68	-1937.13	-2570.60 -
39.99											
26	86	29.32	2832.15	5.92e-03	-5.27	0.0	-5.78	115.66	-16.68	1937.13	2832.15 -
3279.72											
		-3279.72	2570.60	2.25e-03	0.0	30.0	-5.78	110.39	-16.68	1937.13	2570.60
29.32											
27	1	2792.17	0.0	-0.07	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	-4.79e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
27	2	2.020e+04	0.0	0.27	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04											
		0.0	0.0	-4.79e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
27	4	1.894e+04	0.0	0.25	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04											
		0.0	0.0	-4.79e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
27	7	0.0	0.0	-0.20	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29											
		-373.37	0.0	-7.43e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
27	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
27	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
27	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	-8.77e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
27	25	2425.50	0.0	-0.04	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	-3.20e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
27	26	1.403e+04	0.0	0.19	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	-3.20e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
27	27	1193.94	0.0	-0.10	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	-4.95e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
27	48	5460.85	0.0	0.05	53.55	0.0	-3.57	-54.30	22.95	-124.84	-3944.92
5460.85											
		17.86	-3944.92	-0.35	0.0	158.0	-3.57	-0.75	22.95	-124.84	0.0
17.86											
27	49	2999.94	3944.92	0.11	53.55	0.0	3.57	-52.80	-22.95	124.84	3944.92
2999.94											
		-103.34	0.0	0.35	0.0	158.0	3.57	0.75	-22.95	124.84	0.0 -
17.86											
27	60	6643.91	0.0	-0.06	53.55	0.0	-10.54	-68.83	0.54	-36.28	-1146.53

6643.91		52.72	-1146.53	-0.11	0.0	158.0	-10.54	-15.28	0.54	-36.28	0.0
52.72 27 1816.87	61	1816.87	1146.53	0.22	53.55	0.0	10.54	-38.27	-0.54	36.28	1146.53
		-378.52	0.0	0.11	0.0	158.0	10.54	15.28	-0.54	36.28	0.0 -
52.72 27 4717.63	80	4717.63	0.0	0.06	53.55	0.0	-1.13	-54.53	11.62	-60.49	-1911.53
		5.67	-1911.53	-0.17	0.0	158.0	-1.13	-0.98	11.62	-60.49	0.0
5.67 27 3743.16	81	3743.16	1911.53	0.10	53.55	0.0	1.13	-52.57	-11.62	60.49	1911.53
		-19.24	0.0	0.17	0.0	158.0	1.13	0.98	-11.62	60.49	0.0 -
5.67 27 5343.42	88	5343.42	0.0	-0.01	53.55	0.0	-3.49	-46.48	4.15	-14.83	-655.62
		17.46	-655.62	-0.06	0.0	158.0	-3.49	7.07	4.15	-14.83	0.0
17.46 27 3117.37	89	3117.37	655.62	0.15	53.55	0.0	3.49	-60.61	-4.15	14.83	655.62
		-88.31	0.0	0.06	0.0	158.0	3.49	-7.07	-4.15	14.83	0.0 -
17.46 27 5349.03	92	5349.03	0.0	-0.01	53.55	0.0	-3.44	-60.65	0.93	-12.60	-398.28
		17.20	-398.28	-0.03	0.0	158.0	-3.44	-7.10	0.93	-12.60	0.0
17.20 27 3111.76	93	3111.76	398.28	0.15	53.55	0.0	3.44	-46.45	-0.93	12.60	398.28
		-88.78	0.0	0.03	0.0	158.0	3.44	7.10	-0.93	12.60	0.0 -
17.20 28 1.37e-05	1	7884.82	0.0	-0.28	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.79e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82 28 1.37e-05	2	2.530e+04	0.0	-0.62	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.79e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04 28 1.37e-05	3	6615.70	0.0	-0.26	73.24	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.79e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70 28 1.37e-05	4	2.403e+04	0.0	-0.60	293.65	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.79e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04 28 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39 28 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05 28 9.16e-06	25	5820.60	0.0	-0.20	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-3.20e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60 28 9.16e-06	26	1.743e+04	0.0	-0.43	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-3.20e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 28 17.89	39	5470.11	0.0	-0.06	53.55	0.0	-3.58	0.80	-23.27	116.33	0.0
		17.89	-3895.57	0.35	0.0	158.0	-3.58	54.35	-23.27	116.33	-3895.57
5470.11 28 17.89	42	2990.68	3895.57	-0.11	53.55	0.0	3.58	-0.80	23.27	-116.33	0.0 -
		-104.51	0.0	-0.35	0.0	158.0	3.58	52.75	23.27	-116.33	3895.57
2990.68 28 52.77	62	1786.62	1501.64	-0.22	53.55	0.0	10.55	-13.35	4.87	-24.36	0.0 -
		-386.83	0.0	-0.15	0.0	158.0	10.55	40.20	4.87	-24.36	1501.64
1786.62											

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28	63	6674.76	0.0	0.06	53.55	0.0	-10.56	15.46	-1.58	7.92	0.0
51.38		51.38	-982.00	0.10	0.0	158.0	-10.56	69.01	-1.58	7.92	-982.00
6674.76											
28	66	1786.03	982.00	-0.22	53.55	0.0	10.56	-15.46	1.58	-7.92	0.0 -
51.38		-386.07	0.0	-0.10	0.0	158.0	10.56	38.09	1.58	-7.92	982.00
1786.03											
28	71	4718.16	0.0	-0.07	53.55	0.0	-1.14	0.98	-11.67	58.33	0.0
5.69		5.69	-1904.39	0.17	0.0	158.0	-1.14	54.53	-11.67	58.33	-1904.39
4718.16											
28	74	3742.63	1904.39	-0.10	53.55	0.0	1.14	-0.98	11.67	-58.33	0.0 -
5.69		-19.29	0.0	-0.17	0.0	158.0	1.14	52.57	11.67	-58.33	1904.39
3742.63											
28	83	5343.51	0.0	-0.03	53.55	0.0	-3.48	-7.07	-4.16	14.78	0.0
17.40		17.40	-657.32	0.06	0.0	158.0	-3.48	46.48	-4.16	14.78	-657.32
5343.51											
28	86	3117.28	657.32	-0.15	53.55	0.0	3.48	7.07	4.16	-14.78	0.0 -
17.40		-88.27	0.0	-0.06	0.0	158.0	3.48	60.62	4.16	-14.78	657.32
3117.28											
28	94	3110.13	664.01	-0.15	53.55	0.0	3.45	-6.47	2.91	-14.57	0.0 -
17.26		-89.04	0.0	-0.06	0.0	158.0	3.45	47.08	2.91	-14.57	664.01
3110.13											
28	95	5350.79	0.0	-0.03	53.55	0.0	-3.45	7.11	-1.08	5.40	0.0
16.93		16.93	-374.47	0.03	0.0	158.0	-3.45	60.66	-1.08	5.40	-374.47
5350.79											
29	2	2.020e+04	0.0	0.15	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	-2.36e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
29	3	1523.05	0.0	-0.22	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
1523.05		0.0	0.0	-2.36e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
29	7	0.0	0.0	-0.39	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	-3.66e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
29	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
29	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
29	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	-4.32e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
29	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	-1.57e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
29	26	1.403e+04	0.0	0.11	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	-1.57e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
29	27	1193.94	0.0	-0.23	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	-2.44e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
29	48	5757.77	0.0	0.05	53.55	0.0	-4.34	-53.48	24.32	-121.62	-4173.84
5757.77		2.97	-4173.84	-0.36	0.0	158.0	-4.34	0.07	24.32	-121.62	0.0
2.97											
29	49	2703.02	4173.84	0.11	53.55	0.0	4.34	-53.62	-24.32	121.62	4173.84
2703.02		-140.07	0.0	0.36	0.0	158.0	4.34	-0.07	-24.32	121.62	0.0 -

2.97 1427.70	53	1427.70	998.83	0.32	53.55	0.0	7.68	-35.83	-6.32	-0.45	998.83
38.40 29 7037.78		-489.12	0.0	0.10	0.0	158.0	7.68	17.72	-6.32	-0.45	0.0
32.78 29 7019.10	56	7037.78	0.0	-0.15	53.55	0.0	-7.68	-71.30	10.82	-22.03	-1709.01
43.91 29 1441.69		32.78	-1709.01	-0.16	0.0	158.0	-7.68	-17.75	10.82	-22.03	0.0
43.91 29 1441.69	60	7019.10	0.0	-0.16	53.55	0.0	-8.78	-38.73	-0.37	1.86	-1043.60
43.91 29 1441.69		43.91	-1043.60	-0.10	0.0	158.0	-8.78	14.82	-0.37	1.86	0.0
43.91 29 1441.69	61	1441.69	1043.60	0.32	53.55	0.0	8.78	-68.36	0.37	-1.86	1043.60
43.91 29 1441.69		-488.53	0.0	0.10	0.0	158.0	8.78	-14.82	0.37	-1.86	0.0
3.07 29 3642.89	76	4817.90	0.0	0.05	53.55	0.0	-1.59	-57.27	12.87	-60.56	-2033.29
3.07 29 3642.89		3.07	-2033.29	-0.18	0.0	158.0	-1.59	-3.72	12.87	-60.56	0.0
3.07 29 3642.89	77	3642.89	2033.29	0.11	53.55	0.0	1.59	-49.83	-12.87	60.56	2033.29
3.07 29 3642.89		-23.07	0.0	0.18	0.0	158.0	1.59	3.72	-12.87	60.56	0.0
19.10 29 5544.60	85	2917.36	446.44	0.21	53.55	0.0	3.82	-45.25	-2.83	1.51	446.44
17.65 29 2916.19		-114.74	0.0	0.04	0.0	158.0	3.82	8.30	-2.83	1.51	0.0
17.65 29 2916.19	88	5544.60	0.0	-0.04	53.55	0.0	-3.82	-61.86	5.01	-12.42	-791.47
17.65 29 2916.19		17.65	-791.47	-0.08	0.0	158.0	-3.82	-8.31	5.01	-12.42	0.0
17.65 29 2916.19	89	2916.19	791.47	0.21	53.55	0.0	3.82	-45.24	-5.01	12.42	791.47
17.65 29 2916.19		-113.62	0.0	0.08	0.0	158.0	3.82	8.31	-5.01	12.42	0.0
1.37e-05 30 7884.82	1	7884.82	0.0	-0.40	89.31	0.0	0.0	0.0	0.0	0.0	0.0
7884.82 30 1.37e-05		1.37e-05	0.0	-2.36e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
2.530e+04 30 1.37e-05	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0
2.530e+04 30 1.37e-05		1.37e-05	0.0	-2.36e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
6615.70 30 1.37e-05	3	6615.70	0.0	-0.38	73.24	0.0	0.0	0.0	0.0	0.0	0.0
6615.70 30 1.37e-05		1.37e-05	0.0	-2.36e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
2.403e+04 30 1.37e-05	4	2.403e+04	0.0	-0.72	293.65	0.0	0.0	0.0	0.0	0.0	0.0
2.403e+04 30 1.37e-05		1.37e-05	0.0	-2.36e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
4230.39 30 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
4230.39 30 0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
6552.05 30 9.16e-06	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
6552.05 30 9.16e-06		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
5820.60 30 9.16e-06	25	5820.60	0.0	-0.28	66.68	0.0	0.0	0.0	0.0	0.0	0.0
5820.60 30 9.16e-06		9.16e-06	0.0	-1.57e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
1.743e+04 30 21.50	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
1.743e+04 30 21.50		9.16e-06	0.0	-1.57e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
5847.95 30 21.50	39	5847.95	0.0	-0.06	53.55	0.0	-4.30	10.25	-24.35	121.77	0.0
5847.95 30 21.50		21.50	-4169.11	0.36	0.0	158.0	-4.30	63.80	-24.35	121.77	-4169.11
5847.95 30 21.50	42	2612.83	4169.11	-0.12	53.55	0.0	4.30	-10.25	24.35	-121.77	0.0

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2612.83		-172.04	0.0	-0.36	0.0	158.0	4.30	43.30	24.35	-121.77	4169.11		
30	59	7324.39	0.0	0.16	53.55	0.0	-8.66	19.61	-4.22	21.11	0.0		
43.29		43.29	-1737.99	0.16	0.0	158.0	-8.66	73.16	-4.22	21.11	-1737.99		
7324.39													
30	62	1136.40	1737.99	-0.32	53.55	0.0	8.66	-19.61	4.22	-21.11	0.0	-	
43.29		-592.40	0.0	-0.16	0.0	158.0	8.66	33.94	4.22	-21.11	1737.99		
1136.40													
30	63	7319.70	0.0	0.16	53.55	0.0	-8.66	19.58	0.27	-1.36	0.0		
43.29		43.29	-1027.82	0.10	0.0	158.0	-8.66	73.13	0.27	-1.36	-1027.82		
7319.70													
30	66	1141.09	1027.82	-0.32	53.55	0.0	8.66	-19.58	-0.27	1.36	0.0	-	
43.29		-590.65	0.0	-0.10	0.0	158.0	8.66	33.97	-0.27	1.36	1027.82		
1141.09													
30	67	4818.11	0.0	-0.06	53.55	0.0	-1.59	3.72	-12.87	60.56	0.0		
7.96		7.96	-2033.22	0.18	0.0	158.0	-1.59	57.27	-12.87	60.56	-2033.22		
4818.11													
30	70	3642.68	2033.22	-0.11	53.55	0.0	1.59	-3.72	12.87	-60.56	0.0	-	
7.96		-27.67	0.0	-0.18	0.0	158.0	1.59	49.83	12.87	-60.56	2033.22		
3642.68													
30	83	5545.33	0.0	0.04	53.55	0.0	-3.82	8.32	-5.01	12.43	0.0		
19.11		19.11	-791.25	0.08	0.0	158.0	-3.82	61.86	-5.01	12.43	-791.25		
5545.33													
30	86	2915.46	791.25	-0.21	53.55	0.0	3.82	-8.32	5.01	-12.43	0.0	-	
19.11		-114.99	0.0	-0.08	0.0	158.0	3.82	45.23	5.01	-12.43	791.25		
2915.46													
31	1	2792.17	0.0	-0.15	40.96	0.0	0.0	-40.96	0.0	0.0	0.0		
2792.17		0.0	0.0	-2.42e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
31	2	2.020e+04	0.0	0.19	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
2.020e+04		0.0	0.0	-2.42e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0													
31	4	1.894e+04	0.0	0.17	245.31	0.0	0.0	-245.31	0.0	0.0	0.0		
1.894e+04		0.0	0.0	-2.42e-03	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0		
0.0													
31	7	0.0	0.0	-0.32	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
324.29		-373.37	0.0	-3.75e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0													
31	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
31	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0													
31	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
3614.62		0.0	0.0	-4.43e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
31	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
2425.50		0.0	0.0	-1.61e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
31	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
1.403e+04		0.0	0.0	-1.61e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0													
31	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
1193.94		0.0	0.0	-2.50e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		
0.0													
31	43	2576.80	0.0	0.10	53.55	0.0	1.24	-64.01	31.44	-175.45	-5544.11		

2576.80											
		-179.05	-5544.11	-0.51	0.0	158.0	1.24	-10.46	31.44	-175.45	0.0
21.82											
31	46	5883.99	5544.11	0.06	53.55	0.0	-1.24	-43.09	-31.44	175.45	5544.11
5883.99											
		21.82	0.0	0.51	0.0	158.0	-1.24	10.46	-31.44	175.45	0.0
21.82											
31	63	1907.73	0.0	0.28	53.55	0.0	10.15	-68.17	15.28	-76.41	-2414.47
1907.73											
		-357.85	-2414.47	-0.24	0.0	158.0	10.15	-14.62	15.28	-76.41	0.0
55.45											
31	64	5893.75	0.0	-0.13	53.55	0.0	-11.09	-43.10	4.68	-23.38	-738.92
5893.75											
		50.76	-738.92	-0.05	0.0	158.0	-11.09	10.45	4.68	-23.38	0.0
50.76											
31	65	2567.03	738.92	0.30	53.55	0.0	11.09	-64.00	-4.68	23.38	738.92
2567.03											
		-204.40	0.0	0.05	0.0	158.0	11.09	-10.45	-4.68	23.38	0.0
50.76											
31	66	6553.06	2414.47	-0.11	53.55	0.0	-10.15	-38.92	-15.28	76.41	2414.47
6553.06											
		55.45	0.0	0.24	0.0	158.0	-10.15	14.62	-15.28	76.41	0.0
55.45											
31	75	3650.78	0.0	0.11	53.55	0.0	0.82	-57.22	13.54	-73.49	-2322.43
3650.78											
		-27.09	-2322.43	-0.20	0.0	158.0	0.82	-3.67	13.54	-73.49	0.0
7.88											
31	78	4810.01	2322.43	0.06	53.55	0.0	-0.82	-49.88	-13.54	73.49	2322.43
4810.01											
		7.88	0.0	0.20	0.0	158.0	-0.82	3.67	-13.54	73.49	0.0
7.88											
31	83	3218.39	0.0	0.18	53.55	0.0	3.87	-59.95	-0.35	-17.49	-552.72
3218.39											
		-78.36	-552.72	-0.05	0.0	158.0	3.87	-6.41	-0.35	-17.49	0.0
20.52											
31	84	5057.80	55.06	-0.03	53.55	0.0	-4.10	-48.31	3.50	1.74	55.06
5057.80											
		19.34	0.0	0.02	0.0	158.0	-4.10	5.24	3.50	1.74	0.0
19.34											
31	85	3402.99	0.0	0.19	53.55	0.0	4.10	-58.79	-3.50	-1.74	-55.06
3402.99											
		-54.25	-55.06	-0.02	0.0	158.0	4.10	-5.24	-3.50	-1.74	0.0
19.34											
31	86	5242.40	552.72	-0.03	53.55	0.0	-3.87	-47.14	0.35	17.49	552.72
5242.40											
		20.52	0.0	0.05	0.0	158.0	-3.87	6.41	0.35	17.49	0.0
20.52											
32	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	-2.42e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
32	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	-2.42e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
32	3	6615.70	0.0	-0.33	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	-2.42e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
32	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
32	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
32	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	-1.61e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
32	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	-1.61e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											

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32	36	2576.27	0.0	-0.10	53.55	0.0	1.24	-10.46	-35.09	175.45	0.0	-	
6.20		-166.46	-5544.21	0.51	0.0	158.0	1.24	43.09	-35.09	175.45	-5544.21		
2576.27													
32	37	5884.52	5544.21	-0.07	53.55	0.0	-1.24	10.46	35.09	-175.45	0.0		
6.20		6.20	0.0	-0.51	0.0	158.0	-1.24	64.01	35.09	-175.45	5544.21		
5884.52													
32	59	5805.90	0.0	0.13	53.55	0.0	-10.98	9.95	-4.71	23.53	0.0		
54.91		54.91	-743.48	0.04	0.0	158.0	-10.98	63.50	-4.71	23.53	-743.48		
5805.90													
32	60	1995.59	0.0	-0.27	53.55	0.0	10.04	-14.12	-15.25	76.26	0.0	-	
50.22		-331.97	-2409.91	0.24	0.0	158.0	10.04	39.43	-15.25	76.26	-2409.91		
1995.59													
32	61	6465.20	2409.91	0.11	53.55	0.0	-10.04	14.12	15.25	-76.26	0.0		
50.22		50.22	0.0	-0.24	0.0	158.0	-10.04	67.67	15.25	-76.26	2409.91		
6465.20													
32	62	2654.89	743.48	-0.30	53.55	0.0	10.98	-9.95	4.71	-23.53	0.0	-	
54.91		-191.30	0.0	-0.04	0.0	158.0	10.98	43.60	4.71	-23.53	743.48		
2654.89													
32	68	3650.86	0.0	-0.11	53.55	0.0	0.82	-3.67	-14.70	73.49	0.0	-	
4.08		-23.52	-2322.39	0.20	0.0	158.0	0.82	49.88	-14.70	73.49	-2322.39		
3650.86													
32	69	4809.93	2322.39	-0.06	53.55	0.0	-0.82	3.67	14.70	-73.49	0.0		
4.08		4.08	0.0	-0.20	0.0	158.0	-0.82	57.22	14.70	-73.49	2322.39		
4809.93													
32	87	5242.13	54.93	0.02	53.55	0.0	-4.10	6.40	0.35	-1.74	0.0		
19.34		19.34	0.0	-0.02	0.0	158.0	-4.10	59.95	0.35	-1.74	54.93		
5242.13													
32	90	3218.66	0.0	-0.19	53.55	0.0	4.10	-6.40	-0.35	1.74	0.0	-	
19.34		-77.29	-54.93	0.02	0.0	158.0	4.10	47.15	-0.35	1.74	-54.93		
3218.66													
33	2	2.020e+04	0.0	0.20	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
2.020e+04		0.0	0.0	-9.68e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0													
33	3	1523.05	0.0	-0.17	24.90	0.0	0.0	-24.90	0.0	0.0	0.0		
1523.05		0.0	0.0	-9.68e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
33	7	0.0	0.0	-0.32	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
324.29		-373.37	0.0	-1.50e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0													
33	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
33	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0													
33	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
3614.62		0.0	0.0	-1.77e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
33	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
2425.50		0.0	0.0	-6.45e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
33	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
1.403e+04		0.0	0.0	-6.45e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0													
33	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
1193.94		0.0	0.0	-1.00e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		

0.033 5903.74	44	5903.74	0.0	0.05	53.55	0.0	-4.51	-56.18	30.13	-150.67	-5471.85
		22.53	-5471.85	-0.50	0.0	158.0	-4.51	-2.63	30.13	-150.67	0.0
22.5333 2557.05	45	2557.05	5471.85	0.11	53.55	0.0	4.51	-50.92	-30.13	150.67	5471.85
		-183.34	0.0	0.50	0.0	158.0	4.51	2.63	-30.13	150.67	0.0
22.5333 6671.80	60	6671.80	0.0	-0.13	53.55	0.0	-13.08	-38.21	-3.10	15.52	-1481.95
		65.42	-1481.95	-0.15	0.0	158.0	-13.08	15.34	-3.10	15.52	0.0
65.4233 1788.99	61	1788.99	1481.95	0.29	53.55	0.0	13.08	-68.89	3.10	-15.52	1481.95
		-395.01	0.0	0.15	0.0	158.0	13.08	-15.34	3.10	-15.52	0.0
65.4233 6663.23	64	6663.23	0.0	-0.13	53.55	0.0	-13.08	-42.23	3.47	-17.37	-2521.08
		65.42	-2521.08	-0.25	0.0	158.0	-13.08	11.32	3.47	-17.37	0.0
65.4233 1797.56	65	1797.56	2521.08	0.29	53.55	0.0	13.08	-64.87	-3.47	17.37	2521.08
		-392.87	0.0	0.25	0.0	158.0	13.08	-11.32	-3.47	17.37	0.0
65.4233 4837.54	76	4837.54	0.0	0.06	53.55	0.0	-1.57	-53.72	13.24	-66.18	-2296.13
		7.87	-2296.13	-0.20	0.0	158.0	-1.57	-0.17	13.24	-66.18	0.0
7.8733 3623.25	77	3623.25	2296.13	0.11	53.55	0.0	1.57	-53.38	-13.24	66.18	2296.13
		-28.80	0.0	0.20	0.0	158.0	1.57	0.17	-13.24	66.18	0.0
7.8733 5291.36	88	5291.36	0.0	-0.03	53.55	0.0	-4.75	-48.04	2.00	-10.02	-999.62
		23.73	-999.62	-0.10	0.0	158.0	-4.75	5.51	2.00	-10.02	0.0
23.7333 3169.43	89	3169.43	999.62	0.19	53.55	0.0	4.75	-59.06	-2.00	10.02	999.62
		-87.29	0.0	0.10	0.0	158.0	4.75	-5.51	-2.00	10.02	0.0
23.7334 1.37e-05	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-9.68e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.8234 1.37e-05	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-9.68e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+0434 1.37e-05	3	6615.70	0.0	-0.33	73.24	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-9.68e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.7034 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.3934 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.0534 9.16e-06	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-6.45e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.6034 9.16e-06	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-6.45e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+0434 15.58	35	3815.93	0.0	-0.05	53.55	0.0	-4.52	10.59	-30.13	150.66	0.0
		5.23	-5472.11	0.50	0.0	158.0	-4.52	64.14	-30.13	150.66	-5472.11
3815.9334 15.58	38	4644.86	5472.11	-0.11	53.55	0.0	4.52	-10.59	30.13	-150.66	0.0

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								PAGE				
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			-15.58	0.0	-0.50	0.0	158.0	4.52	42.96	30.13	-150.66	5472.11
4644.86												
34	59	6100.57	0.0	0.13	53.55	0.0	-13.16	-11.70	-3.63	18.17	0.0	
63.68												
		63.68	-2495.61	0.25	0.0	158.0	-13.16	41.85	-3.63	18.17	-2495.61	
6100.57												
34	62	2360.22	2495.61	-0.29	53.55	0.0	13.16	11.70	3.63	-18.17	0.0	-
63.68												
		-253.68	0.0	-0.25	0.0	158.0	13.16	65.25	3.63	-18.17	2495.61	
2360.22												
34	63	6735.82	0.0	0.13	53.55	0.0	-13.16	-11.64	2.94	-14.71	0.0	
63.69												
		63.69	-1456.49	0.15	0.0	158.0	-13.16	41.90	2.94	-14.71	-1456.49	
6735.82												
34	66	1724.96	1456.49	-0.29	53.55	0.0	13.16	11.64	-2.94	14.71	0.0	-
63.69												
		-413.61	0.0	-0.15	0.0	158.0	13.16	65.19	-2.94	14.71	1456.49	
1724.96												
34	67	4202.85	0.0	-0.06	53.55	0.0	-1.58	3.84	-13.24	66.18	0.0	
6.23												
		6.23	-2296.07	0.20	0.0	158.0	-1.58	57.39	-13.24	66.18	-2296.07	
4202.85												
34	70	4257.94	2296.07	-0.11	53.55	0.0	1.58	-3.84	13.24	-66.18	0.0	-
6.23												
		-6.23	0.0	-0.20	0.0	158.0	1.58	49.71	13.24	-66.18	2296.07	
4257.94												
34	83	5101.45	0.0	0.03	53.55	0.0	-4.75	6.72	-2.01	10.03	0.0	
23.26												
		23.26	-999.41	0.10	0.0	158.0	-4.75	60.27	-2.01	10.03	-999.41	
5101.45												
34	84	3168.88	0.0	-0.20	53.55	0.0	4.65	-5.52	-6.33	31.63	0.0	-
23.76												
		-87.38	-316.80	0.02	0.0	158.0	4.65	48.03	-6.33	31.63	-316.80	
3168.88												
34	85	5291.91	316.80	0.03	53.55	0.0	-4.65	5.52	6.33	-31.63	0.0	
23.76												
		23.76	0.0	-0.02	0.0	158.0	-4.65	59.07	6.33	-31.63	316.80	
5291.91												
34	86	3359.34	999.41	-0.19	53.55	0.0	4.75	-6.72	2.01	-10.03	0.0	-
23.26												
		-63.14	0.0	-0.10	0.0	158.0	4.75	46.83	2.01	-10.03	999.41	
3359.34												
35	2	2.020e+04	0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0	
2.020e+04												
		0.0	0.0	4.85e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0	
0.0												
35	3	1523.05	0.0	-0.23	24.90	0.0	0.0	-24.90	0.0	0.0	0.0	
1523.05												
		0.0	0.0	4.85e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0												
35	7	0.0	0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-
324.29												
		-373.37	0.0	7.51e-05	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0	
0.0												
35	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0	
4230.39												
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0												
35	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0	
6552.05												
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0	
0.0												
35	23	3614.62	0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0	
3614.62												
		0.0	0.0	8.88e-06	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0												
35	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0	
2425.50												
		0.0	0.0	3.23e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0												
35	26	1.403e+04	0.0	0.10	181.39	0.0	0.0	-181.39	0.0	0.0	0.0	
1.403e+04												
		0.0	0.0	3.23e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0	
0.0												
35	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0	

1193.94											
0.0		0.0	0.0	5.01e-05	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
35	43	2905.73	0.0	0.15	53.55	0.0	2.82	-45.15	29.61	-148.06	-4678.65
2905.73		-116.78	-4678.65	-0.41	0.0	158.0	2.82	8.40	29.61	-148.06	0.0
19.77											
35	46	5555.06	4678.65	0.02	53.55	0.0	-2.82	-61.95	-29.61	148.06	4678.65
5555.06		19.77	0.0	0.41	0.0	158.0	-2.82	-8.40	-29.61	148.06	0.0
19.77											
35	51	1050.32	0.0	0.39	53.55	0.0	11.13	-33.38	5.86	-29.32	-926.54
1050.32		-633.43	-926.54	-0.08	0.0	158.0	11.13	20.17	5.86	-29.32	0.0
57.29											
35	54	7410.47	926.54	-0.23	53.55	0.0	-11.13	-73.72	-5.86	29.32	926.54
7410.47		57.29	0.0	0.08	0.0	158.0	-11.13	-20.17	-5.86	29.32	0.0
57.29											
35	56	7163.38	0.0	-0.25	53.55	0.0	-11.46	-72.15	5.91	-29.54	-933.44
7163.38		55.62	-933.44	-0.08	0.0	158.0	-11.46	-18.60	5.91	-29.54	0.0
55.62											
35	57	1297.41	933.44	0.41	53.55	0.0	11.46	-34.94	-5.91	29.54	933.44
1297.41		-541.67	0.0	0.08	0.0	158.0	11.46	18.60	-5.91	29.54	0.0
55.62											
35	75	3697.67	0.0	0.12	53.55	0.0	1.34	-50.18	13.46	-67.28	-2126.16
3697.67		-23.98	-2126.16	-0.18	0.0	158.0	1.34	3.37	13.46	-67.28	0.0
7.69											
35	78	4763.12	2126.16	0.04	53.55	0.0	-1.34	-56.92	-13.46	67.28	2126.16
4763.12		7.69	0.0	0.18	0.0	158.0	-1.34	-3.37	-13.46	67.28	0.0
7.69											
35	83	2772.92	0.0	0.23	53.55	0.0	4.77	-44.32	2.42	-12.12	-382.89
2772.92		-144.17	-382.89	-0.03	0.0	158.0	4.77	9.23	2.42	-12.12	0.0
24.14											
35	86	5687.87	382.89	-0.07	53.55	0.0	-4.77	-62.78	-2.42	12.12	382.89
5687.87		24.14	0.0	0.03	0.0	158.0	-4.77	-9.23	-2.42	12.12	0.0
24.14											
35	88	5623.47	0.0	-0.07	53.55	0.0	-4.83	-62.37	3.12	-15.58	-492.41
5623.47		23.86	-492.41	-0.04	0.0	158.0	-4.83	-8.82	3.12	-15.58	0.0
23.86											
35	89	2837.32	492.41	0.24	53.55	0.0	4.83	-44.73	-3.12	15.58	492.41
2837.32		-131.86	0.0	0.04	0.0	158.0	4.83	8.82	-3.12	15.58	0.0
23.86											
36	1	7884.82	0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	4.85e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
36	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	4.85e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
36	3	6615.70	0.0	-0.39	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	4.85e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
36	6	1.754e+04	0.0	-0.74	205.20	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05		2.29e-05	0.0	7.51e-05	0.0	158.0	0.0	205.20	0.0	0.0	0.0
1.754e+04											
36	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
36	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											

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36	23	4546.61	0.0	-0.14	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06											
		3.05e-06	0.0	8.88e-06	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
36	25	5820.60	0.0	-0.29	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	3.23e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
36	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	3.23e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
36	28	1.226e+04	0.0	-0.51	143.94	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05											
		1.53e-05	0.0	5.01e-05	0.0	158.0	0.0	143.94	0.0	0.0	0.0
1.226e+04											
36	36	2906.34	0.0	-0.15	53.55	0.0	2.83	3.23	-29.62	148.11	0.0 -
19.82											
		-116.75	-4680.33	0.41	0.0	158.0	2.83	56.77	-29.62	148.11	-4680.33
2906.34											
36	37	5554.45	4680.33	-0.03	53.55	0.0	-2.83	-3.23	29.62	-148.11	0.0
19.82											
		19.82	0.0	-0.41	0.0	158.0	-2.83	50.32	29.62	-148.11	4680.33
5554.45											
36	51	7161.35	0.0	0.25	53.55	0.0	-11.50	-20.14	-5.87	29.36	0.0
55.78											
		55.78	-927.83	0.08	0.0	158.0	-11.50	33.41	-5.87	29.36	-927.83
7161.35											
36	52	1054.61	0.0	-0.39	53.55	0.0	11.16	18.59	-11.40	57.02	0.0 -
57.48											
		-631.94	-1801.72	0.16	0.0	158.0	11.16	72.14	-11.40	57.02	-1801.72
1054.61											
36	54	1299.44	927.83	-0.41	53.55	0.0	11.50	20.14	5.87	-29.36	0.0 -
55.78											
		-541.15	0.0	-0.08	0.0	158.0	11.50	73.69	5.87	-29.36	927.83
1299.44											
36	55	7408.43	0.0	0.25	53.55	0.0	-11.49	-20.15	-0.37	1.84	0.0
55.81											
		55.81	-58.25	-8.52e-03	0.0	158.0	-11.49	33.39	-0.37	1.84	-58.25
7408.43											
36	68	3697.64	0.0	-0.12	53.55	0.0	1.34	2.04	-13.46	67.29	0.0 -
7.70											
		-23.99	-2126.37	0.18	0.0	158.0	1.34	55.59	-13.46	67.29	-2126.37
3697.64											
36	69	4763.15	2126.37	-0.05	53.55	0.0	-1.34	-2.04	13.46	-67.29	0.0
7.70											
		7.70	0.0	-0.18	0.0	158.0	-1.34	51.51	13.46	-67.29	2126.37
4763.15											
36	83	5623.59	0.0	0.07	53.55	0.0	-4.84	-9.22	-3.11	15.56	0.0
23.88											
		23.88	-491.71	0.04	0.0	158.0	-4.84	44.33	-3.11	15.56	-491.71
5623.59											
36	84	2774.00	0.0	-0.23	53.55	0.0	4.78	8.82	-4.81	24.05	0.0 -
24.18											
		-143.99	-759.97	0.07	0.0	158.0	4.78	62.37	-4.81	24.05	-759.97
2774.00											
36	86	2837.20	491.71	-0.24	53.55	0.0	4.84	9.22	3.11	-15.56	0.0 -
23.88											
		-131.90	0.0	-0.04	0.0	158.0	4.84	62.77	3.11	-15.56	491.71
2837.20											
36	87	5687.99	0.0	0.07	53.55	0.0	-4.83	-9.23	-0.73	3.65	0.0
23.89											
		23.89	-115.33	6.25e-03	0.0	158.0	-4.83	44.32	-0.73	3.65	-115.33
5687.99											
37	1	2792.17	0.0	-0.09	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	2.92e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
37	2	2.020e+04	0.0	0.25	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04											
		0.0	0.0	2.92e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
37	4	1.894e+04	0.0	0.23	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04											
		0.0	0.0	2.92e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0

0.0 37 324.29	7	0.0	0.0	-0.23	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-
		-373.37	0.0	4.52e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0	
0.0 37 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0 37 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0	
0.0 37 3614.62	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0	
		0.0	0.0	5.34e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0 37 2425.50	25	2425.50	0.0	-0.05	34.45	0.0	0.0	-34.45	0.0	0.0	0.0	
		0.0	0.0	1.95e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0 37 1.403e+04	26	1.403e+04	0.0	0.18	181.39	0.0	0.0	-181.39	0.0	0.0	0.0	
		0.0	0.0	1.95e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0	
0.0 37 1193.94	27	1193.94	0.0	-0.12	20.54	0.0	0.0	-20.54	0.0	0.0	0.0	
		0.0	0.0	3.02e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0	
0.0 37 2695.40	43	2695.40	0.0	0.13	53.55	0.0	3.54	-55.84	29.28	-146.42	-4626.98	
		-157.54	-4626.98	-0.40	0.0	158.0	3.54	-2.29	29.28	-146.42	0.0	-
22.71 37 5765.39	46	5765.39	4626.98	0.03	53.55	0.0	-3.54	-51.26	-29.28	146.42	4626.98	
		22.71	0.0	0.40	0.0	158.0	-3.54	2.29	-29.28	146.42	0.0	
22.71 37 7256.33	60	7256.33	154.61	-0.12	53.55	0.0	-16.50	-72.56	-0.98	4.89	154.61	
		80.86	0.0	0.03	0.0	158.0	-16.50	-19.01	-0.98	4.89	0.0	
80.86 37 1204.46	61	1204.46	0.0	0.29	53.55	0.0	16.50	-34.54	0.98	-4.89	-154.61	
		-590.36	-154.61	-0.03	0.0	158.0	16.50	19.01	0.98	-4.89	0.0	-
80.86 37 870.03	63	870.03	0.0	0.28	53.55	0.0	16.19	-32.43	12.54	-62.71	-1981.50	
		-716.76	-1981.50	-0.18	0.0	158.0	16.19	21.12	12.54	-62.71	0.0	-
82.44 37 7590.76	66	7590.76	1981.50	-0.11	53.55	0.0	-16.19	-74.67	-12.54	62.71	1981.50	
		82.44	0.0	0.18	0.0	158.0	-16.19	-21.12	-12.54	62.71	0.0	
82.44 37 3665.96	75	3665.96	0.0	0.11	53.55	0.0	1.32	-54.99	13.49	-67.45	-2131.48	
		-25.84	-2131.48	-0.18	0.0	158.0	1.32	-1.45	13.49	-67.45	0.0	-
7.56 37 4794.83	78	4794.83	2131.48	0.06	53.55	0.0	-1.32	-52.10	-13.49	67.45	2131.48	
		7.56	0.0	0.18	0.0	158.0	-1.32	1.45	-13.49	67.45	0.0	
7.56 37 2860.08	87	2860.08	0.0	0.18	53.55	0.0	4.69	-61.60	5.17	-25.87	-817.64	
		-127.49	-817.64	-0.07	0.0	158.0	4.69	-8.05	5.17	-25.87	0.0	-
23.73 37 5499.60	88	5499.60	0.0	-0.03	53.55	0.0	-4.75	-44.86	2.70	-13.48	-426.00	
		23.44	-426.00	-0.04	0.0	158.0	-4.75	8.69	2.70	-13.48	0.0	
23.44 37 2961.19	89	2961.19	426.00	0.18	53.55	0.0	4.75	-62.24	-2.70	13.48	426.00	
		-113.06	0.0	0.04	0.0	158.0	4.75	-8.69	-2.70	13.48	0.0	-
23.44 37 5607.60	98	5607.60	810.41	-0.02	53.55	0.0	-4.37	-62.26	-5.13	25.65	810.41	

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		22.14	0.0	0.07	0.0	158.0	-4.37	-8.71	-5.13	25.65	0.0
22.14											
38	1	7884.82	0.0	-0.30	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.92e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
38	2	2.530e+04	0.0	-0.64	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.92e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
38	3	6615.70	0.0	-0.27	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.92e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
38	4	2.403e+04	0.0	-0.62	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.92e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04											
38	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
38	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
38	25	5820.60	0.0	-0.21	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.95e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
38	26	1.743e+04	0.0	-0.44	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.95e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
38	36	3862.35	0.0	-0.13	53.55	0.0	3.50	9.71	-29.28	146.39	0.0 -
22.51											
		-27.59	-4625.86	0.40	0.0	158.0	3.50	63.26	-29.28	146.39	-4625.86
3862.35											
38	37	4598.44	4625.86	-0.04	53.55	0.0	-3.50	-9.71	29.28	-146.39	0.0
22.51											
		22.51	0.0	-0.40	0.0	158.0	-3.50	43.84	29.28	-146.39	4625.86
4598.44											
38	51	7583.45	0.0	0.15	53.55	0.0	-13.49	-18.93	-4.07	20.37	0.0
65.93											
		65.93	-643.84	0.05	0.0	158.0	-13.49	34.62	-4.07	20.37	-643.84
7583.45											
38	62	883.15	696.32	-0.29	53.55	0.0	16.29	-21.05	12.38	-22.04	0.0 -
79.94											
		-710.28	0.0	-0.05	0.0	158.0	16.29	32.50	12.38	-22.04	696.32
883.15											
38	63	7243.20	129.46	0.12	53.55	0.0	-16.31	18.93	-7.16	-4.10	0.0
79.87											
		79.87	0.0	-0.03	0.0	158.0	-16.31	72.48	-7.16	-4.10	129.46
7243.20											
38	66	1217.59	0.0	-0.29	53.55	0.0	16.31	-18.93	7.16	4.10	0.0 -
79.87											
		-584.82	-129.46	0.03	0.0	158.0	16.31	34.61	7.16	4.10	-129.46
1217.59											
38	68	4002.73	0.0	-0.11	53.55	0.0	1.31	3.58	-13.49	67.45	0.0 -
7.53											
		-7.53	-2131.29	0.18	0.0	158.0	1.31	57.13	-13.49	67.45	-2131.29
4002.73											
38	69	4458.06	2131.29	-0.06	53.55	0.0	-1.31	-3.58	13.49	-67.45	0.0
7.53											
		7.53	0.0	-0.18	0.0	158.0	-1.31	49.97	13.49	-67.45	2131.29
4458.06											
38	83	5601.52	0.0	0.02	53.55	0.0	-4.73	-8.05	-2.70	13.50	0.0
23.34											
		23.34	-426.63	0.04	0.0	158.0	-4.73	45.50	-2.70	13.50	-426.63
5601.52											
38	86	2859.27	426.63	-0.18	53.55	0.0	4.73	8.05	2.70	-13.50	0.0 -
23.34											
		-127.32	0.0	-0.04	0.0	158.0	4.73	61.60	2.70	-13.50	426.63
2859.27											
38	91	5606.00	0.0	-0.02	53.55	0.0	-4.41	8.70	-5.11	13.83	0.0

21.78											
		21.78	-437.04	0.04	0.0	158.0	-4.41	62.25	-5.11	13.83	-437.04
5606.00											
39	1	2792.17	0.0	-0.18	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	1.17e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
39	2	2.020e+04	0.0	0.16	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04											
		0.0	0.0	1.17e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
39	4	1.894e+04	0.0	0.14	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04											
		0.0	0.0	1.17e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
39	7	0.0	0.0	-0.37	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29											
		-373.37	0.0	1.81e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
39	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
39	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	2.14e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
39	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	7.78e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
39	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	7.78e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
39	27	1193.94	0.0	-0.22	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	1.20e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
39	44	5939.56	0.0	-0.02	53.55	0.0	-2.71	-64.38	28.82	-133.42	-4553.70
5939.56											
		13.55	-4553.70	-0.40	0.0	158.0	-2.71	-10.83	28.82	-133.42	0.0
13.55											
39	45	2521.23	4553.70	0.15	53.55	0.0	2.71	-42.72	-28.82	133.42	4553.70
2521.23											
		-182.76	0.0	0.40	0.0	158.0	2.71	10.83	-28.82	133.42	0.0 -
13.55											
39	51	1753.91	79.01	0.42	53.55	0.0	10.83	-37.82	-0.50	-33.12	79.01
1753.91											
		-398.00	0.0	0.03	0.0	158.0	10.83	15.73	-0.50	-33.12	0.0 -
54.14											
39	52	7244.32	0.0	-0.24	53.55	0.0	-10.49	-72.67	6.62	2.50	-1046.64
7244.32											
		52.47	-1046.64	-0.10	0.0	158.0	-10.49	-19.12	6.62	2.50	0.0
52.47											
39	53	1216.46	1046.64	0.41	53.55	0.0	10.49	-34.42	-6.62	-2.50	1046.64
1216.46											
		-568.12	0.0	0.10	0.0	158.0	10.49	19.12	-6.62	-2.50	0.0 -
52.47											
39	54	6706.88	0.0	-0.26	53.55	0.0	-10.83	-69.28	0.50	33.12	-79.01
6706.88											
		54.14	-79.01	-0.03	0.0	158.0	-10.83	-15.73	0.50	33.12	0.0
54.14											
39	76	4850.86	0.0	0.04	53.55	0.0	-1.30	-57.48	13.33	-62.85	-2106.74
4850.86											
		6.48	-2106.74	-0.18	0.0	158.0	-1.30	-3.93	13.33	-62.85	0.0
6.48											
39	77	3609.93	2106.74	0.12	53.55	0.0	1.30	-49.62	-13.33	62.85	2106.74
3609.93											
		-28.33	0.0	0.18	0.0	158.0	1.30	3.93	-13.33	62.85	0.0 -
6.48											

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39	83	3104.32	0.0	0.23	53.55	0.0	4.63	-46.41	0.30	-14.21	-46.96
3104.32		-94.91	-46.96	2.30e-03	0.0	158.0	4.63	7.14	0.30	-14.21	0.0 -
23.15											
39	84	5513.22	0.0	-0.06	53.55	0.0	-4.56	-61.68	2.84	-1.49	-448.92
5513.22		22.79	-448.92	-0.04	0.0	158.0	-4.56	-8.13	2.84	-1.49	0.0
22.79											
39	85	2947.57	448.92	0.23	53.55	0.0	4.56	-45.42	-2.84	1.49	448.92
2947.57		-114.20	0.0	0.04	0.0	158.0	4.56	8.13	-2.84	1.49	0.0 -
22.79											
39	86	5356.47	46.96	-0.07	53.55	0.0	-4.63	-60.69	-0.30	14.21	46.96
5356.47		23.15	0.0	-2.30e-03	0.0	158.0	-4.63	-7.14	-0.30	14.21	0.0
23.15											
40	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	1.17e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
40	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	1.17e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
40	3	6615.70	0.0	-0.37	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	1.17e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
40	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
40	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
40	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	7.78e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
40	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	7.78e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
40	35	5940.31	0.0	-0.03	53.55	0.0	-3.68	-10.84	-28.82	133.42	0.0
18.40		18.40	-4553.63	0.40	0.0	158.0	-3.68	42.71	-28.82	133.42	-4553.63
5940.31											
40	38	2520.48	4553.63	-0.15	53.55	0.0	3.68	10.84	28.82	-133.42	0.0 -
18.40		-186.84	0.0	-0.40	0.0	158.0	3.68	64.39	28.82	-133.42	4553.63
2520.48											
40	55	7246.82	0.0	0.24	53.55	0.0	-10.81	-19.14	-6.62	-2.49	0.0
54.05		54.05	-1046.42	0.10	0.0	158.0	-10.81	34.40	-6.62	-2.49	-1046.42
7246.82											
40	58	1213.97	1046.42	-0.40	53.55	0.0	10.81	19.14	6.62	2.49	0.0 -
54.05		-570.04	0.0	-0.10	0.0	158.0	10.81	72.69	6.62	2.49	1046.42
1213.97											
40	67	4850.83	0.0	-0.05	53.55	0.0	-1.46	-3.93	-13.33	62.85	0.0
7.30		7.30	-2106.74	0.18	0.0	158.0	-1.46	49.62	-13.33	62.85	-2106.74
4850.83											
40	70	3609.96	2106.74	-0.12	53.55	0.0	1.46	3.93	13.33	-62.85	0.0 -
7.30		-29.09	0.0	-0.18	0.0	158.0	1.46	57.48	13.33	-62.85	2106.74
3609.96											
40	87	5513.11	0.0	0.06	53.55	0.0	-4.63	-8.13	-2.84	1.49	0.0
23.14		23.14	-448.91	0.04	0.0	158.0	-4.63	45.42	-2.84	1.49	-448.91
5513.11											
40	90	2947.68	448.91	-0.23	53.55	0.0	4.63	8.13	2.84	-1.49	0.0 -
23.14		-114.49	0.0	-0.04	0.0	158.0	4.63	61.68	2.84	-1.49	448.91

2947.68 41 2.020e+04	2	2.020e+04	0.0	0.16	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	1.70e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 41 1523.05	3	1523.05	0.0	-0.20	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
		0.0	0.0	1.70e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 41 324.29	7	0.0	0.0	-0.37	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
		-373.37	0.0	2.64e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 41 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 41 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 41 3614.62	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
		0.0	0.0	3.12e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 41 2425.50	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
		0.0	0.0	1.14e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 41 1.403e+04	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	1.14e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 41 1193.94	27	1193.94	0.0	-0.22	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	1.76e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 41 2456.43	43	2456.43	0.0	0.16	53.55	0.0	2.73	-54.21	28.54	-142.68	-4508.80
		-198.78	-4508.80	-0.40	0.0	158.0	2.73	-0.67	28.54	-142.68	0.0
18.32 41 6004.36	46	6004.36	4508.80	-0.02	53.55	0.0	-2.73	-52.88	-28.54	142.68	4508.80
		18.32	0.0	0.40	0.0	158.0	-2.73	0.67	-28.54	142.68	0.0
18.32 41 7289.26	54	7289.26	1020.64	-0.25	53.55	0.0	-10.53	-69.37	-6.46	32.30	1020.64
		53.90	0.0	0.09	0.0	158.0	-10.53	-15.82	-6.46	32.30	0.0
53.90 41 1171.61	55	1171.61	0.0	0.41	53.55	0.0	10.52	-37.73	11.67	-58.33	-1843.35
		-585.88	-1843.35	-0.17	0.0	158.0	10.52	15.82	11.67	-58.33	0.0
53.98 41 6724.56	56	6724.56	0.0	-0.26	53.55	0.0	-10.80	-72.94	4.84	-24.20	-764.87
		52.58	-764.87	-0.05	0.0	158.0	-10.80	-19.39	4.84	-24.20	0.0
52.58 41 1736.23	57	1736.23	764.87	0.43	53.55	0.0	10.80	-34.16	-4.84	24.20	764.87
		-402.45	0.0	0.05	0.0	158.0	10.80	19.39	-4.84	24.20	0.0
52.58 41 3591.42	75	3591.42	0.0	0.12	53.55	0.0	1.29	-52.94	13.32	-66.61	-2104.76
		-30.47	-2104.76	-0.18	0.0	158.0	1.29	0.61	13.32	-66.61	0.0
7.53 41 4869.37	78	4869.37	2104.76	0.04	53.55	0.0	-1.29	-54.16	-13.32	66.61	2104.76
		7.53	0.0	0.18	0.0	158.0	-1.29	-0.61	-13.32	66.61	0.0
7.53 41 2923.10	83	2923.10	0.0	0.23	53.55	0.0	4.62	-46.30	2.81	-14.07	-444.67
		-117.79	-444.67	-0.04	0.0	158.0	4.62	7.25	2.81	-14.07	0.0
23.41 41 5537.69	86	5537.69	444.67	-0.06	53.55	0.0	-4.62	-60.79	-2.81	14.07	444.67

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		23.41	0.0	0.04	0.0	158.0	-4.62	-7.25	-2.81	14.07	0.0
23.41											
41	88	5374.30	0.0	-0.07	53.55	0.0	-4.69	-61.83	2.64	-13.18	-416.57
5374.30											
		23.10	-416.57	-0.03	0.0	158.0	-4.69	-8.28	2.64	-13.18	0.0
23.10											
41	89	3086.49	416.57	0.23	53.55	0.0	4.69	-45.27	-2.64	13.18	416.57
3086.49											
		-97.10	0.0	0.03	0.0	158.0	4.69	8.28	-2.64	13.18	0.0 -
23.10											
42	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	1.70e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
42	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	1.70e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
42	3	6615.70	0.0	-0.37	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	1.70e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
42	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
42	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
42	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.14e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
42	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.14e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
42	36	2457.50	0.0	-0.16	53.55	0.0	2.72	0.67	-26.50	142.65	0.0 -
18.29											
		-198.55	-4507.77	0.40	0.0	158.0	2.72	54.22	-26.50	142.65	-4507.77
2457.50											
42	37	6003.29	4507.77	-0.03	53.55	0.0	-2.72	-0.67	26.50	-142.65	0.0
18.29											
		18.29	0.0	-0.40	0.0	158.0	-2.72	52.88	26.50	-142.65	4507.77
6003.29											
42	51	6720.98	0.0	0.26	53.55	0.0	-10.78	19.37	-11.64	24.31	0.0
52.48											
		52.48	-768.33	0.05	0.0	158.0	-10.78	72.92	-11.64	24.31	-768.33
6720.98											
42	52	1175.19	0.0	-0.41	53.55	0.0	10.50	-15.80	-4.86	58.22	0.0 -
53.88											
		-584.48	-1839.89	0.17	0.0	158.0	10.50	37.75	-4.86	58.22	-1839.89
1175.19											
42	54	1739.81	768.33	-0.43	53.55	0.0	10.78	-19.37	11.64	-24.31	0.0 -
52.48											
		-401.27	0.0	-0.05	0.0	158.0	10.78	34.18	11.64	-24.31	768.33
1739.81											
42	57	7285.68	1017.19	0.25	53.55	0.0	-10.51	15.80	-0.34	-32.19	0.0
53.81											
		53.81	0.0	-0.09	0.0	158.0	-10.51	69.35	-0.34	-32.19	1017.19
7285.68											
42	68	3591.52	0.0	-0.12	53.55	0.0	1.29	-0.61	-12.57	66.60	0.0 -
7.52											
		-30.46	-2104.63	0.18	0.0	158.0	1.29	52.94	-12.57	66.60	-2104.63
3591.52											
42	69	4869.27	2104.63	-0.05	53.55	0.0	-1.29	0.61	12.57	-66.60	0.0
7.52											
		7.52	0.0	-0.18	0.0	158.0	-1.29	54.16	12.57	-66.60	2104.63
4869.27											
42	83	5373.98	0.0	0.07	53.55	0.0	-4.68	8.28	-5.13	13.20	0.0
23.09											
		23.09	-417.00	0.03	0.0	158.0	-4.68	61.83	-5.13	13.20	-417.00
5373.98											
42	86	3086.81	417.00	-0.23	53.55	0.0	4.68	-8.28	5.13	-13.20	0.0 -

23.09			-97.05	0.0	-0.03	0.0	158.0	4.68	45.27	5.13	-13.20	417.00
3086.81												
42	88	2923.42	0.0	-0.23	53.55	0.0	4.62	-7.24	-0.32	14.06	0.0	-
23.39			-117.74	-444.24	0.04	0.0	158.0	4.62	46.31	-0.32	14.06	-444.24
2923.42												
42	89	5537.37	444.24	0.06	53.55	0.0	-4.62	7.24	0.32	-14.06	0.0	
23.39			23.39	0.0	-0.04	0.0	158.0	-4.62	60.79	0.32	-14.06	444.24
5537.37												
43	2	2.020e+04	0.0	0.25	261.37	0.0	0.0	-261.37	0.0	0.0	0.0	
2.020e+04			0.0	0.0	4.55e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0												
43	3	1523.05	0.0	-0.12	24.90	0.0	0.0	-24.90	0.0	0.0	0.0	0.0
1523.05			0.0	0.0	4.55e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
43	7	0.0	0.0	-0.23	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-
324.29			-373.37	0.0	7.04e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0												
43	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0	0.0
4230.39			0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
43	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0	0.0
6552.05			0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0												
43	23	3614.62	0.0	0.04	46.60	0.0	0.0	-46.60	0.0	0.0	0.0	0.0
3614.62			0.0	0.0	8.32e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
43	25	2425.50	0.0	-0.05	34.45	0.0	0.0	-34.45	0.0	0.0	0.0	0.0
2425.50			0.0	0.0	3.03e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
43	26	1.403e+04	0.0	0.18	181.39	0.0	0.0	-181.39	0.0	0.0	0.0	0.0
1.403e+04			0.0	0.0	3.03e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0												
43	27	1193.94	0.0	-0.13	20.54	0.0	0.0	-20.54	0.0	0.0	0.0	0.0
1193.94			0.0	0.0	4.69e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0												
43	44	5746.43	0.0	0.03	53.55	0.0	-3.88	-63.16	28.83	-131.05	-4554.62	
5746.43			19.38	-4554.62	-0.40	0.0	158.0	-3.88	-9.61	28.83	-131.05	0.0
19.38												
43	45	2714.36	4554.62	0.14	53.55	0.0	3.88	-43.93	-28.83	131.05	4554.62	
2714.36			-151.28	0.0	0.40	0.0	158.0	3.88	9.61	-28.83	131.05	0.0
19.38												
43	56	7335.52	0.0	-0.16	53.55	0.0	-11.24	-73.27	12.62	-19.47	-1993.54	
7335.52			56.20	-1993.54	-0.20	0.0	158.0	-11.24	-19.73	12.62	-19.47	0.0
56.20												
43	57	1125.26	1993.54	0.33	53.55	0.0	11.24	-33.82	-12.62	19.47	1993.54	
1125.26			-604.65	0.0	0.20	0.0	158.0	11.24	19.73	-12.62	19.47	0.0
56.20												
43	60	7227.66	0.0	-0.09	53.55	0.0	-15.23	-37.03	6.08	-0.88	-960.17	
7227.66			76.13	-960.17	-0.06	0.0	158.0	-15.23	16.52	6.08	-0.88	0.0
76.13												
43	61	1233.13	960.17	0.25	53.55	0.0	15.23	-70.06	-6.08	0.88	960.17	
1233.13			-576.65	0.0	0.06	0.0	158.0	15.23	-16.52	-6.08	0.88	0.0
76.13												
43	76	4797.02	0.0	0.06	53.55	0.0	-1.47	-57.15	13.38	-63.47	-2114.67	
4797.02			7.36	-2114.67	-0.18	0.0	158.0	-1.47	-3.60	13.38	-63.47	0.0
7.36												

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43 3663.77	77	3663.77	2114.67	0.11	53.55	0.0	1.47	-49.95	-13.38	63.47	2114.67		
7.36		-25.78	0.0	0.18	0.0	158.0	1.47	3.60	-13.38	63.47	0.0	-	
43 5556.02	88	5556.02	0.0	-0.03	53.55	0.0	-4.53	-61.98	5.06	-13.80	-799.86		
22.64		22.64	-799.86	-0.07	0.0	158.0	-4.53	-8.43	5.06	-13.80	0.0		
43 2904.77	89	2904.77	799.86	0.19	53.55	0.0	4.53	-45.12	-5.06	13.80	799.86		
22.64		-119.41	0.0	0.07	0.0	158.0	4.53	8.43	-5.06	13.80	0.0	-	
44 1.37e-05	1	7884.82	0.0	-0.30	89.31	0.0	0.0	0.0	0.0	0.0	0.0		
7884.82		1.37e-05	0.0	4.55e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0		
44 1.37e-05	2	2.530e+04	0.0	-0.64	309.72	0.0	0.0	0.0	0.0	0.0	0.0		
2.530e+04		1.37e-05	0.0	4.55e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0		
44 1.37e-05	3	6615.70	0.0	-0.28	73.24	0.0	0.0	0.0	0.0	0.0	0.0		
6615.70		1.37e-05	0.0	4.55e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0		
44 2.29e-05	7	7564.34	0.0	-0.38	78.93	0.0	0.0	0.0	0.0	0.0	0.0		
7564.34		2.29e-05	0.0	7.04e-04	0.0	158.0	0.0	78.93	0.0	0.0	0.0		
44 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0		
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0		
44 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0		
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0		
44 9.16e-06	25	5820.60	0.0	-0.21	66.68	0.0	0.0	0.0	0.0	0.0	0.0		
5820.60		9.16e-06	0.0	3.03e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0		
44 9.16e-06	26	1.743e+04	0.0	-0.44	213.62	0.0	0.0	0.0	0.0	0.0	0.0		
1.743e+04		9.16e-06	0.0	3.03e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0		
44 1.53e-05	27	6453.02	0.0	-0.28	70.47	0.0	0.0	0.0	0.0	0.0	0.0		
6453.02		1.53e-05	0.0	4.69e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0		
44 19.25	35	5744.97	0.0	-0.04	53.55	0.0	-3.85	1.48	-28.82	131.06	0.0		
5744.97		19.25	-4554.26	0.40	0.0	158.0	-3.85	55.03	-28.82	131.06	-4554.26		
44 19.25	38	2715.81	4554.26	-0.14	53.55	0.0	3.85	-1.48	28.82	-131.06	0.0	-	
2715.81		-150.90	0.0	-0.40	0.0	158.0	3.85	52.07	28.82	-131.06	4554.26		
44 55.75	51	7330.67	0.0	0.16	53.55	0.0	-11.15	17.26	-12.61	19.51	0.0		
7330.67		55.75	-1992.34	0.20	0.0	158.0	-11.15	70.81	-12.61	19.51	-1992.34		
44 55.75	54	1130.12	1992.34	-0.33	53.55	0.0	11.15	-17.26	12.61	-19.51	0.0	-	
1130.12		-602.55	0.0	-0.20	0.0	158.0	11.15	36.29	12.61	-19.51	1992.34		
44 76.32	63	7207.78	0.0	0.09	53.55	0.0	-15.26	-18.69	-6.36	-0.54	0.0		
7207.78		76.32	-1005.20	0.07	0.0	158.0	-15.26	34.86	-6.36	-0.54	-1005.20		
44 76.32	66	1253.01	1005.20	-0.25	53.55	0.0	15.26	18.69	6.36	0.54	0.0	-	
1253.01		-569.78	0.0	-0.07	0.0	158.0	15.26	72.24	6.36	0.54	1005.20		
44 7.34	67	4796.93	0.0	-0.06	53.55	0.0	-1.47	1.25	-13.38	63.47	0.0		
		7.34	-2114.67	0.18	0.0	158.0	-1.47	54.80	-13.38	63.47	-2114.67		

4796.93 44 7.34	70	3663.86	2114.67	-0.11	53.55	0.0	1.47	-1.25	13.38	-63.47	0.0
		-25.76	0.0	-0.18	0.0	158.0	1.47	52.30	13.38	-63.47	2114.67
3663.86 44 22.57	83	5555.73	0.0	0.02	53.55	0.0	-4.51	7.72	-5.06	13.81	0.0
		22.57	-799.83	0.07	0.0	158.0	-4.51	61.27	-5.06	13.81	-799.83
5555.73 44 22.57	86	2905.06	799.83	-0.19	53.55	0.0	4.51	-7.72	5.06	-13.81	0.0
		-119.32	0.0	-0.07	0.0	158.0	4.51	45.83	5.06	-13.81	799.83
2905.06 45 2.020e+04	2	2.020e+04	0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	4.76e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 45 1523.05	3	1523.05	0.0	-0.23	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
		0.0	0.0	4.76e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 45 324.29	7	0.0	0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
		-373.37	0.0	7.38e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 45 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 45 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 45 3614.62	23	3614.62	0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
		0.0	0.0	8.72e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 45 2425.50	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
		0.0	0.0	3.18e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 45 1.403e+04	26	1.403e+04	0.0	0.10	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	3.18e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 45 1193.94	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	4.92e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 45 4576.81	44	4576.81	0.0	0.02	53.55	0.0	-4.36	-51.35	26.95	-134.76	-4472.57
		21.80	-4472.57	-0.39	0.0	158.0	-4.36	2.20	26.95	-134.76	0.0
21.80 45 3883.98	45	3883.98	4472.57	0.15	53.55	0.0	4.36	-55.75	-26.95	134.76	4472.57
		-25.56	0.0	0.39	0.0	158.0	4.36	-2.20	-26.95	134.76	0.0
21.80 45 8282.14	52	8282.14	0.0	-0.31	53.55	0.0	-11.76	-30.94	0.89	-4.46	-854.47
		56.82	-854.47	-0.08	0.0	158.0	-11.76	22.60	0.89	-4.46	0.0
56.82 45 178.65	53	178.65	854.47	0.48	53.55	0.0	11.76	-76.15	-0.89	4.46	854.47
		-996.68	0.0	0.08	0.0	158.0	11.76	-22.60	-0.89	4.46	0.0
56.82 45 7800.06	56	7800.06	0.0	-0.31	53.55	0.0	-11.83	-30.91	6.03	-30.15	-1666.46
		59.14	-1666.46	-0.16	0.0	158.0	-11.83	22.63	6.03	-30.15	0.0
59.14 45 660.73	57	660.73	1666.46	0.48	53.55	0.0	11.83	-76.18	-6.03	30.15	1666.46
		-785.27	0.0	0.16	0.0	158.0	11.83	-22.63	-6.03	30.15	0.0
59.14 45 4556.04	76	4556.04	0.0	0.04	53.55	0.0	-1.68	-51.49	12.72	-63.58	-2072.60

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture			
								PAGE 195 di/of 308			
		8.42	-2072.60	-0.18	0.0	158.0	-1.68	2.06	12.72	-63.58	0.0
8.42											
45	77	3904.75	2072.60	0.13	53.55	0.0	1.68	-55.61	-12.72	63.58	2072.60
3904.75											
		-11.72	0.0	0.18	0.0	158.0	1.68	-2.06	-12.72	63.58	0.0 -
8.42											
45	87	2597.31	0.0	0.26	53.55	0.0	5.00	-63.89	4.54	-22.72	-506.53
2597.31											
		-177.79	-506.53	-0.04	0.0	158.0	5.00	-10.34	4.54	-22.72	0.0 -
24.99											
45	88	5773.05	0.0	-0.09	53.55	0.0	-5.10	-43.78	3.21	-16.03	-718.00
5773.05											
		25.50	-718.00	-0.07	0.0	158.0	-5.10	9.77	3.21	-16.03	0.0
25.50											
45	89	2687.74	718.00	0.25	53.55	0.0	5.10	-63.32	-3.21	16.03	718.00
2687.74											
		-161.24	0.0	0.07	0.0	158.0	5.10	-9.77	-3.21	16.03	0.0 -
25.50											
45	90	5863.48	506.53	-0.09	53.55	0.0	-5.00	-43.21	-4.54	22.72	506.53
5863.48											
		24.99	0.0	0.04	0.0	158.0	-5.00	10.34	-4.54	22.72	0.0
24.99											
46	1	7884.82	0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	4.76e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
46	2	2.530e+04	0.0	-0.76	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	4.76e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
46	3	6615.70	0.0	-0.39	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	4.76e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
46	7	7564.34	0.0	-0.55	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05											
		2.29e-05	0.0	7.38e-04	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
46	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
46	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
46	25	5820.60	0.0	-0.29	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	3.18e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
46	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	3.18e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
46	27	6453.02	0.0	-0.39	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05											
		1.53e-05	0.0	4.92e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
46	40	4281.67	0.0	-0.22	53.55	0.0	1.75	-0.32	-28.34	134.61	0.0 -
8.76											
		-8.76	-4477.45	0.37	0.0	158.0	1.75	53.22	-28.34	134.61	-4477.45
4281.67											
46	41	4179.12	4477.45	0.05	53.55	0.0	-1.75	0.32	28.34	-134.61	0.0
8.76											
		8.76	0.0	-0.37	0.0	158.0	-1.75	53.87	28.34	-134.61	4477.45
4179.12											
46	51	8283.27	0.0	0.31	53.55	0.0	-11.82	-25.70	-10.58	52.89	0.0
59.10											
		59.10	-1671.41	0.16	0.0	158.0	-11.82	27.85	-10.58	52.89	-1671.41
8283.27											
46	54	177.51	1671.41	-0.48	53.55	0.0	11.82	25.70	10.58	-52.89	0.0 -
59.10											
		-998.39	0.0	-0.16	0.0	158.0	11.82	79.25	10.58	-52.89	1671.41
177.51											
46	55	8287.67	0.0	0.31	53.55	0.0	-11.75	-22.64	-5.44	27.20	0.0

58.75		58.75	-859.42	0.08	0.0	158.0	-11.75	30.91	-5.44	27.20	-859.42
8287.67	58	173.12	859.42	-0.48	53.55	0.0	11.75	22.64	5.44	-27.20	0.0
46											
58.75		-1000.41	0.0	-0.08	0.0	158.0	11.75	76.19	5.44	-27.20	859.42
173.12	67	4857.46	0.0	-0.05	53.55	0.0	-1.68	-3.97	-13.12	65.60	0.0
46											
8.42		8.42	-2072.83	0.18	0.0	158.0	-1.68	49.58	-13.12	65.60	-2072.83
4857.46	70	3603.33	2072.83	-0.13	53.55	0.0	1.68	3.97	13.12	-65.60	0.0
46											
8.42		-30.56	0.0	-0.18	0.0	158.0	1.68	57.52	13.12	-65.60	2072.83
3603.33	83	5863.44	0.0	0.09	53.55	0.0	-5.10	-10.34	-4.55	22.75	0.0
46											
25.50		25.50	-718.78	0.07	0.0	158.0	-5.10	43.21	-4.55	22.75	-718.78
5863.44	86	2597.35	718.78	-0.25	53.55	0.0	5.10	10.34	4.55	-22.75	0.0
46											
25.50		-178.19	0.0	-0.07	0.0	158.0	5.10	63.89	4.55	-22.75	718.78
2597.35	2	2.020e+04	0.0	0.20	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
47											
2.020e+04		0.0	0.0	-2.17e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0	3	1523.05	0.0	-0.17	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
47											
1523.05		0.0	0.0	-2.17e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	7	0.0	0.0	-0.31	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
47											
324.29		-373.37	0.0	-3.36e-05	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
47											
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
47											
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
47											
3614.62		0.0	0.0	-3.97e-06	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
47											
2425.50		0.0	0.0	-1.45e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
47											
1.403e+04		0.0	0.0	-1.45e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
47											
1193.94		0.0	0.0	-2.24e-05	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0	43	2500.62	0.0	0.14	53.55	0.0	3.64	-64.52	30.55	-152.75	-4827.03
47											
2500.62		-195.67	-4827.03	-0.43	0.0	158.0	3.64	-10.97	30.55	-152.75	0.0
24.70	46	5960.17	4827.03	0.02	53.55	0.0	-3.64	-42.58	-30.55	152.75	4827.03
47											
5960.17		24.70	0.0	0.43	0.0	158.0	-3.64	10.97	-30.55	152.75	0.0
24.70	51	1453.97	0.0	0.39	53.55	0.0	14.11	-67.37	6.81	-34.04	-1075.71
47											
1453.97		-504.35	-1075.71	-0.09	0.0	158.0	14.11	-13.82	6.81	-34.04	0.0
72.50	52	6400.67	58.06	-0.25	53.55	0.0	-14.50	-35.90	-0.37	1.84	58.06
47											
6400.67		70.54	0.0	0.02	0.0	158.0	-14.50	17.65	-0.37	1.84	0.0
70.54											

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47	53	2060.12	0.0	0.41	53.55	0.0	14.50	-71.20	0.37	-1.84	-58.06
2060.12		-331.07	-58.06	-0.02	0.0	158.0	14.50	-17.65	0.37	-1.84	0.0 -
70.54											
47	54	7006.82	1075.71	-0.23	53.55	0.0	-14.11	-39.73	-6.81	34.04	1075.71
7006.82		72.50	0.0	0.09	0.0	158.0	-14.11	13.82	-6.81	34.04	0.0
72.50											
47	75	3618.67	0.0	0.12	53.55	0.0	1.43	-57.43	13.53	-67.66	-2138.06
3618.67		-29.80	-2138.06	-0.19	0.0	158.0	1.43	-3.88	13.53	-67.66	0.0 -
8.63											
47	78	4842.12	2138.06	0.05	53.55	0.0	-1.43	-49.67	-13.53	67.66	2138.06
4842.12		8.63	0.0	0.19	0.0	158.0	-1.43	3.88	-13.53	67.66	0.0
8.63											
47	83	3082.52	0.0	0.22	53.55	0.0	5.21	-59.70	2.92	-14.61	-461.60
3082.52		-100.59	-461.60	-0.04	0.0	158.0	5.21	-6.15	2.92	-14.61	0.0 -
26.52											
47	84	5197.70	0.0	-0.05	53.55	0.0	-5.30	-46.26	0.27	-1.36	-42.96
5197.70		26.05	-42.96	4.37e-04	0.0	158.0	-5.30	7.29	0.27	-1.36	0.0
26.05											
47	85	3263.09	42.96	0.22	53.55	0.0	5.30	-60.84	-0.27	1.36	42.96
3263.09		-77.60	0.0	-4.37e-04	0.0	158.0	5.30	-7.29	-0.27	1.36	0.0 -
26.05											
47	86	5378.27	461.60	-0.05	53.55	0.0	-5.21	-47.40	-2.92	14.61	461.60
5378.27		26.52	0.0	0.04	0.0	158.0	-5.21	6.15	-2.92	14.61	0.0
26.52											
48	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-2.17e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
48	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-2.17e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
48	3	6615.70	0.0	-0.33	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-2.17e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
48	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
48	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
48	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-1.45e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
48	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-1.45e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
48	36	2502.87	0.0	-0.14	53.55	0.0	3.64	10.96	-28.40	152.76	0.0 -
24.68		-195.24	-4827.08	0.43	0.0	158.0	3.64	64.51	-28.40	152.76	-4827.08
2502.87											
48	37	5957.92	4827.08	-0.04	53.55	0.0	-3.64	-10.96	28.40	-152.76	0.0
24.68		24.68	0.0	-0.43	0.0	158.0	-3.64	42.59	28.40	-152.76	4827.08
5957.92											
48	55	6393.17	58.25	0.25	53.55	0.0	-14.49	-17.61	-6.81	-1.84	0.0
70.48		70.48	0.0	-0.02	0.0	158.0	-14.49	35.94	-6.81	-1.84	58.25
6393.17											
48	56	1461.47	0.0	-0.39	53.55	0.0	14.10	13.78	0.37	34.05	0.0 -
72.44		-501.97	-1075.90	0.09	0.0	158.0	14.10	67.33	0.37	34.05	-1075.90

1461.47 48 72.44	57	6999.32	1075.90	0.23	53.55	0.0	-14.10	-13.78	-0.37	-34.05	0.0
		72.44	0.0	-0.09	0.0	158.0	-14.10	39.77	-0.37	-34.05	1075.90
6999.32 48 70.48	58	2067.62	0.0	-0.41	53.55	0.0	14.49	17.61	6.81	1.84	0.0
		-329.15	-58.25	0.02	0.0	158.0	14.49	71.16	6.81	1.84	-58.25
2067.62 48 8.63	68	3618.83	0.0	-0.12	53.55	0.0	1.43	3.88	-12.74	67.66	0.0
		-29.79	-2138.09	0.19	0.0	158.0	1.43	57.43	-12.74	67.66	-2138.09
3618.83 48 8.63	69	4841.96	2138.09	-0.05	53.55	0.0	-1.43	-3.88	12.74	-67.66	0.0
		8.63	0.0	-0.19	0.0	158.0	-1.43	49.67	12.74	-67.66	2138.09
4841.96 48 26.04	87	5197.15	0.0	0.05	53.55	0.0	-5.30	-7.29	-2.92	1.36	0.0
		26.04	-42.85	-2.43e-04	0.0	158.0	-5.30	46.26	-2.92	1.36	-42.85
5197.15 48 26.52	88	3083.07	0.0	-0.22	53.55	0.0	5.21	6.15	-0.27	14.61	0.0
		-100.52	-461.71	0.04	0.0	158.0	5.21	59.70	-0.27	14.61	-461.71
3083.07 48 26.52	89	5377.72	461.71	0.05	53.55	0.0	-5.21	-6.15	0.27	-14.61	0.0
		26.52	0.0	-0.04	0.0	158.0	-5.21	47.40	0.27	-14.61	461.71
5377.72 48 26.04	90	3263.64	42.85	-0.22	53.55	0.0	5.30	7.29	2.92	-1.36	0.0
		-77.53	0.0	2.43e-04	0.0	158.0	5.30	60.84	2.92	-1.36	42.85
3263.64 49 2.020e+04	2	2.020e+04	0.0	0.19	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	-7.43e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 49 1523.05	3	1523.05	0.0	-0.18	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
		0.0	0.0	-7.43e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 49 324.29	7	0.0	0.0	-0.33	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
		-373.37	0.0	-1.15e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 49 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 49 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 49 3614.62	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
		0.0	0.0	-1.36e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 49 2425.50	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
		0.0	0.0	-4.95e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 49 1.403e+04	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	-4.95e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 49 1193.94	27	1193.94	0.0	-0.19	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	-7.67e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 49 6034.53	44	6034.53	0.0	0.05	53.55	0.0	-4.38	-65.01	30.95	-141.90	-4889.59
		21.90	-4889.59	-0.43	0.0	158.0	-4.38	-11.46	30.95	-141.90	0.0
21.90 49 2426.26	45	2426.26	4889.59	0.12	53.55	0.0	4.38	-42.09	-30.95	141.90	4889.59

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			-207.35	0.0	0.43	0.0	158.0	4.38	11.46	-30.95	141.90	0.0 -
21.90												
49	51	2215.87	171.06	0.41	53.55	0.0	11.89	-36.40	-1.08	-37.35	171.06	
2215.87												
			-281.41	0.0	0.04	0.0	158.0	11.89	17.15	-1.08	-37.35	0.0 -
56.24												
49	52	6918.99	0.0	-0.21	53.55	0.0	-11.25	-66.44	7.47	5.41	-1180.34	
6918.99												
			59.44	-1180.34	-0.11	0.0	158.0	-11.25	-12.89	7.47	5.41	0.0
59.44												
49	53	1541.80	1180.34	0.38	53.55	0.0	11.25	-40.66	-7.47	-5.41	1180.34	
1541.80												
			-467.92	0.0	0.11	0.0	158.0	11.25	12.89	-7.47	-5.41	0.0 -
59.44												
49	54	6244.92	0.0	-0.25	53.55	0.0	-11.89	-70.70	1.08	37.35	-171.06	
6244.92												
			56.24	-171.06	-0.04	0.0	158.0	-11.89	-17.15	1.08	37.35	0.0
56.24												
49	76	4865.19	0.0	0.05	53.55	0.0	-1.63	-57.58	13.69	-63.19	-2163.45	
4865.19												
			8.16	-2163.45	-0.19	0.0	158.0	-1.63	-4.03	13.69	-63.19	0.0
8.16												
49	77	3595.60	2163.45	0.11	53.55	0.0	1.63	-49.52	-13.69	63.19	2163.45	
3595.60												
			-30.80	0.0	0.19	0.0	158.0	1.63	4.03	-13.69	63.19	0.0 -
8.16												
49	83	3266.58	26.29	0.23	53.55	0.0	4.93	-46.18	-0.17	-16.74	26.29	
3266.58												
			-75.41	0.0	0.01	0.0	158.0	4.93	7.37	-0.17	-16.74	0.0 -
24.04												
49	84	5388.65	0.0	-0.05	53.55	0.0	-4.81	-59.69	3.35	0.83	-528.99	
5388.65												
			24.67	-528.99	-0.05	0.0	158.0	-4.81	-6.14	3.35	0.83	0.0
24.67												
49	85	3072.14	528.99	0.22	53.55	0.0	4.81	-47.40	-3.35	-0.83	528.99	
3072.14												
			-100.26	0.0	0.05	0.0	158.0	4.81	6.14	-3.35	-0.83	0.0 -
24.67												
49	86	5194.21	0.0	-0.06	53.55	0.0	-4.93	-60.92	0.17	16.74	-26.29	
5194.21												
			24.04	-26.29	-0.01	0.0	158.0	-4.93	-7.37	0.17	16.74	0.0
24.04												
50	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0	
1.37e-05												
			1.37e-05	0.0	-7.43e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82												
50	2	2.530e+04	0.0	-0.71	309.72	0.0	0.0	0.0	0.0	0.0	0.0	
1.37e-05												
			1.37e-05	0.0	-7.43e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04												
50	3	6615.70	0.0	-0.34	73.24	0.0	0.0	0.0	0.0	0.0	0.0	
1.37e-05												
			1.37e-05	0.0	-7.43e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70												
50	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0	
0.0												
			0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39												
50	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0	
0.0												
			0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05												
50	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0	
9.16e-06												
			9.16e-06	0.0	-4.95e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60												
50	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0	
9.16e-06												
			9.16e-06	0.0	-4.95e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04												
50	35	6034.68	0.0	-0.05	53.55	0.0	-4.38	-2.45	-28.38	154.75	0.0	
12.80												
			12.80	-4890.11	0.43	0.0	158.0	-4.38	51.10	-28.38	154.75	-4890.11
6034.68												
50	38	2426.11	4890.11	-0.12	53.55	0.0	4.38	2.45	28.38	-154.75	0.0 -	

12.80			-199.98	0.0	-0.43	0.0	158.0	4.38	56.00	28.38	-154.75	4890.11
2426.11												
50	55	6919.50		0.0	0.21	53.55	0.0	-11.25	17.15	1.09	37.41	0.0
59.45			59.45	-1182.10	0.11	0.0	158.0	-11.25	70.70	1.09	37.41	-1182.10
6919.50												
50	56	2215.36		172.81	-0.41	53.55	0.0	11.89	-12.89	-7.48	-5.47	0.0
56.25			-281.55	0.0	-0.04	0.0	158.0	11.89	40.66	-7.48	-5.47	172.81
2215.36												
50	57	6245.43		0.0	0.25	53.55	0.0	-11.89	12.89	7.48	5.47	0.0
56.25			56.25	-172.81	0.04	0.0	158.0	-11.89	66.44	7.48	5.47	-172.81
6245.43												
50	58	1541.29		1182.10	-0.38	53.55	0.0	11.25	-17.15	-1.09	-37.41	0.0
59.45			-468.10	0.0	-0.11	0.0	158.0	11.25	36.39	-1.09	-37.41	1182.10
1541.29												
50	67	4865.19		0.0	-0.06	53.55	0.0	-1.63	0.02	-12.64	68.47	0.0
6.45			6.45	-2163.50	0.19	0.0	158.0	-1.63	53.57	-12.64	68.47	-2163.50
4865.19												
50	70	3595.60		2163.50	-0.11	53.55	0.0	1.63	-0.02	12.64	-68.47	0.0
6.45			-29.20	0.0	-0.19	0.0	158.0	1.63	53.52	12.64	-68.47	2163.50
3595.60												
50	87	5388.64		0.0	0.05	53.55	0.0	-4.81	7.37	0.17	16.74	0.0
24.67			24.67	-529.13	0.05	0.0	158.0	-4.81	60.92	0.17	16.74	-529.13
5388.64												
50	88	3266.59		26.43	-0.23	53.55	0.0	4.93	-6.14	-3.35	-0.84	0.0
24.04			-75.41	0.0	-0.01	0.0	158.0	4.93	47.40	-3.35	-0.84	26.43
3266.59												
50	89	5194.20		0.0	0.06	53.55	0.0	-4.93	6.14	3.35	0.84	0.0
24.04			24.04	-26.43	0.01	0.0	158.0	-4.93	59.69	3.35	0.84	-26.43
5194.20												
50	90	3072.15		529.13	-0.22	53.55	0.0	4.81	-7.37	-0.17	-16.74	0.0
24.67			-100.27	0.0	-0.05	0.0	158.0	4.81	46.18	-0.17	-16.74	529.13
3072.15												
51	2	2.020e+04		0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04			0.0	0.0	-9.61e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0												
51	3	1523.05		0.0	-0.22	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
1523.05			0.0	0.0	-9.61e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
51	7	0.0		0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
324.29			-373.37	0.0	-1.49e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0												
51	21	4230.39		0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39			0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
51	22	6552.05		0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05			0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0												
51	23	3614.62		0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62			0.0	0.0	-1.76e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
51	25	2425.50		0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50			0.0	0.0	-6.40e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0												
51	26	1.403e+04		0.0	0.11	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04			0.0	0.0	-6.40e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0												

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51	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	-9.92e-05	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0	43	1871.63	0.0	0.09	53.55	0.0	1.91	-68.49	33.54	-167.72	-5300.06
1871.63		-342.33	-5300.06	-0.49	0.0	158.0	1.91	-14.94	33.54	-167.72	0.0 -
22.72	46	6589.16	5300.06	0.08	53.55	0.0	-1.91	-38.61	-33.54	167.72	5300.06
6589.16		22.72	0.0	0.49	0.0	158.0	-1.91	14.94	-33.54	167.72	0.0
22.72	51	275.82	0.0	0.42	53.55	0.0	10.39	-73.63	8.94	-44.68	-1411.93
275.82		-951.72	-1411.93	-0.15	0.0	158.0	10.39	-20.08	8.94	-44.68	0.0 -
55.68	54	8184.97	1411.93	-0.26	53.55	0.0	-10.39	-33.47	-8.94	44.68	1411.93
8184.97		55.68	0.0	0.15	0.0	158.0	-10.39	20.08	-8.94	44.68	0.0
55.68	56	7406.40	0.0	-0.32	53.55	0.0	-11.16	-33.44	3.57	-17.83	-563.27
7406.40		51.84	-563.27	-0.01	0.0	158.0	-11.16	20.11	3.57	-17.83	0.0
51.84	57	1054.39	563.27	0.49	53.55	0.0	11.16	-73.66	-3.57	17.83	563.27
1054.39		-628.50	0.0	0.01	0.0	158.0	11.16	-20.11	-3.57	17.83	0.0 -
51.84	75	3471.94	0.0	0.11	53.55	0.0	1.26	-58.35	13.93	-69.66	-2201.26
3471.94		-39.27	-2201.26	-0.20	0.0	158.0	1.26	-4.80	13.93	-69.66	0.0 -
8.95	78	4988.85	2201.26	0.06	53.55	0.0	-1.26	-48.75	-13.93	69.66	2201.26
4988.85		8.95	0.0	0.20	0.0	158.0	-1.26	4.80	-13.93	69.66	0.0
8.95	87	2580.35	0.0	0.25	53.55	0.0	5.00	-64.00	5.52	-27.58	-871.42
2580.35		-181.63	-871.42	-0.09	0.0	158.0	5.00	-10.45	5.52	-27.58	0.0 -
25.82	88	5706.73	0.0	-0.10	53.55	0.0	-5.16	-44.20	2.58	-12.90	-407.59
5706.73		25.02	-407.59	-0.03	0.0	158.0	-5.16	9.35	2.58	-12.90	0.0
25.02	89	2754.05	407.59	0.26	53.55	0.0	5.16	-62.90	-2.58	12.90	407.59
2754.05		-148.42	0.0	0.03	0.0	158.0	5.16	-9.35	-2.58	12.90	0.0 -
25.02	90	5880.43	871.42	-0.08	53.55	0.0	-5.00	-43.10	-5.52	27.58	871.42
5880.43		25.82	0.0	0.09	0.0	158.0	-5.00	10.45	-5.52	27.58	0.0
25.82	1	7884.82	0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-9.61e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-9.61e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04	3	6615.70	0.0	-0.38	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-9.61e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05	25	5820.60	0.0	-0.28	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-6.40e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0

5820.60 52 9.16e-06	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-6.40e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 52 22.71	36	1871.07	0.0	-0.09	53.55	0.0	1.91	-1.40	-33.54	167.68	0.0
		-342.47	-5298.83	0.49	0.0	158.0	1.91	52.15	-33.54	167.68	-5298.83
1871.07 52 22.71	37	6589.72	5298.83	-0.08	53.55	0.0	-1.91	1.40	33.54	-167.68	0.0
		22.71	0.0	-0.49	0.0	158.0	-1.91	54.95	33.54	-167.68	5298.83
6589.72 52 51.84	51	7408.26	0.0	0.32	53.55	0.0	-11.16	-25.02	-3.59	17.96	0.0
		51.84	-567.38	0.01	0.0	158.0	-11.16	28.52	-3.59	17.96	-567.38
7408.26 52 51.84	54	1052.53	567.38	-0.49	53.55	0.0	11.16	25.02	3.59	-17.96	0.0
		-629.20	0.0	-0.01	0.0	158.0	11.16	78.57	3.59	-17.96	567.38
1052.53 52 55.67	56	273.96	0.0	-0.42	53.55	0.0	10.39	25.06	-8.91	44.55	0.0
		-952.53	-1407.82	0.15	0.0	158.0	10.39	78.60	-8.91	44.55	-1407.82
273.96 52 55.67	57	8186.83	1407.82	0.26	53.55	0.0	-10.39	-25.06	8.91	-44.55	0.0
		55.67	0.0	-0.15	0.0	158.0	-10.39	28.49	8.91	-44.55	1407.82
8186.83 52 8.95	68	3471.90	0.0	-0.11	53.55	0.0	1.26	1.13	-13.93	69.66	0.0
		-39.27	-2201.15	0.20	0.0	158.0	1.26	54.68	-13.93	69.66	-2201.15
3471.90 52 8.95	69	4988.89	2201.15	-0.06	53.55	0.0	-1.26	-1.13	13.93	-69.66	0.0
		8.95	0.0	-0.20	0.0	158.0	-1.26	52.41	13.93	-69.66	2201.15
4988.89 52 25.02	83	5706.87	0.0	0.10	53.55	0.0	-5.16	-10.45	-2.58	12.91	0.0
		25.02	-407.93	0.03	0.0	158.0	-5.16	43.10	-2.58	12.91	-407.93
5706.87 52 25.82	84	2580.22	0.0	-0.25	53.55	0.0	5.00	9.35	-5.51	27.57	0.0
		-181.66	-871.07	0.09	0.0	158.0	5.00	62.90	-5.51	27.57	-871.07
2580.22 52 25.82	85	5880.57	871.07	0.08	53.55	0.0	-5.00	-9.35	5.51	-27.57	0.0
		25.82	0.0	-0.09	0.0	158.0	-5.00	44.20	5.51	-27.57	871.07
5880.57 52 25.02	86	2753.92	407.93	-0.26	53.55	0.0	5.16	10.45	2.58	-12.91	0.0
		-148.44	0.0	-0.03	0.0	158.0	5.16	64.00	2.58	-12.91	407.93
2753.92 53 2.020e+04	2	2.020e+04	0.0	0.27	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	2.15e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 53 1523.05	3	1523.05	0.0	-0.10	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
		0.0	0.0	2.15e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 53 324.29	7	0.0	0.0	-0.20	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
		-373.37	0.0	3.34e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 53 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 53 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 53 3614.62	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0

LUMINORA LA FEUDALE SRL 				 WE ENGINEERING				CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture			
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0.0		0.0	0.0	3.94e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
53	25	2425.50	0.0	-0.04	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	1.44e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
53	26	1.403e+04	0.0	0.19	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	1.44e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
53	27	1193.94	0.0	-0.11	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	2.22e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
53	43	4058.09	0.0	0.07	53.55	0.0	1.63	-52.50	35.77	-214.78	-6787.20
4058.09											
		-29.40	-6787.20	-0.67	0.0	158.0	1.63	1.04	35.77	-214.78	0.0 -
29.40											
53	46	4402.70	6787.20	0.10	53.55	0.0	-1.63	-54.59	-35.77	214.78	6787.20
4402.70											
		29.40	0.0	0.67	0.0	158.0	-1.63	-1.04	-35.77	214.78	0.0
29.40											
53	56	7568.84	26.61	-0.15	53.55	0.0	-13.15	-74.70	23.79	0.84	26.61
7568.84											
		59.39	0.0	0.08	0.0	158.0	-13.15	-21.15	23.79	0.84	0.0
59.39											
53	57	891.95	0.0	0.32	53.55	0.0	13.15	-32.40	-23.79	-0.84	-26.61
891.95											
		-694.14	-26.61	-0.08	0.0	158.0	13.15	21.15	-23.79	-0.84	0.0 -
59.39											
53	64	7472.17	0.0	-0.08	53.55	0.0	-13.48	-74.10	5.08	-25.41	-803.01
7472.17											
		61.01	-803.01	-0.05	0.0	158.0	-13.48	-20.55	5.08	-25.41	0.0
61.01											
53	65	988.62	803.01	0.25	53.55	0.0	13.48	-33.00	-5.08	25.41	803.01
988.62											
		-658.90	0.0	0.05	0.0	158.0	13.48	20.55	-5.08	25.41	0.0 -
61.01											
53	75	4019.10	0.0	0.10	53.55	0.0	0.96	-52.21	14.07	-79.24	-2504.05
4019.10											
		-10.12	-2504.05	-0.23	0.0	158.0	0.96	1.34	14.07	-79.24	0.0 -
10.12											
53	78	4441.69	2504.05	0.07	53.55	0.0	-0.96	-54.89	-14.07	79.24	2504.05
4441.69											
		10.12	0.0	0.23	0.0	158.0	-0.96	-1.34	-14.07	79.24	0.0
10.12											
53	83	2781.10	0.0	0.18	53.55	0.0	4.82	-44.33	-1.43	-22.53	-712.09
2781.10											
		-143.90	-712.09	-0.08	0.0	158.0	4.82	9.22	-1.43	-22.53	0.0 -
25.70											
53	88	5683.68	0.0	-0.03	53.55	0.0	-5.14	-62.80	7.45	-7.60	-240.25
5683.68											
		24.11	-240.25	-3.26e-03	0.0	158.0	-5.14	-9.25	7.45	-7.60	0.0
24.11											
53	89	2777.11	240.25	0.20	53.55	0.0	5.14	-44.30	-7.45	7.60	240.25
2777.11											
		-143.36	0.0	3.26e-03	0.0	158.0	5.14	9.25	-7.45	7.60	0.0 -
24.11											
54	1	7884.82	0.0	-0.29	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.15e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
54	2	2.530e+04	0.0	-0.63	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.15e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
54	3	6615.70	0.0	-0.26	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.15e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
54	7	7564.34	0.0	-0.35	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05											
		2.29e-05	0.0	3.34e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
54	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0

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0.0											
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
54	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
54	23	4546.61	0.0	-0.11	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06		3.05e-06	0.0	3.94e-04	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61		0.0	0.0	0.0	0.0	158.0	0.0	55.45	0.0	0.0	0.0
54	25	5820.60	0.0	-0.20	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	1.44e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60		0.0	0.0	0.0	0.0	158.0	0.0	66.68	0.0	0.0	0.0
54	26	1.743e+04	0.0	-0.43	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	1.44e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04		0.0	0.0	0.0	0.0	158.0	0.0	213.62	0.0	0.0	0.0
54	27	6453.02	0.0	-0.26	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	2.22e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02		0.0	0.0	0.0	0.0	158.0	0.0	70.47	0.0	0.0	0.0
54	36	2534.52	0.0	-0.07	53.55	0.0	1.60	-1.06	-35.78	178.88	0.0 -
29.23		-193.00	-6786.46	0.67	0.0	158.0	1.60	52.49	-35.78	178.88	-6786.46
2534.52		0.0	0.0	0.0	0.0	158.0	1.60	52.49	-35.78	178.88	-6786.46
54	37	5926.27	6786.46	-0.10	53.55	0.0	-1.60	1.06	35.78	-178.88	0.0
29.23		29.23	0.0	-0.67	0.0	158.0	-1.60	54.61	35.78	-178.88	6786.46
5926.27		0.0	0.0	0.0	0.0	158.0	-1.60	54.61	35.78	-178.88	6786.46
54	52	885.10	0.0	-0.27	53.55	0.0	11.76	-18.28	0.15	-0.76	0.0 -
65.19		-700.33	-3755.85	0.43	0.0	158.0	11.76	35.27	0.15	-0.76	-3755.85
885.10		0.0	0.0	0.0	0.0	158.0	11.76	35.27	0.15	-0.76	-3755.85
54	53	7575.69	3755.85	0.11	53.55	0.0	-11.76	18.28	-0.15	0.76	0.0
65.19		65.19	0.0	-0.43	0.0	158.0	-11.76	71.83	-0.15	0.76	3755.85
7575.69		0.0	0.0	0.0	0.0	158.0	-11.76	71.83	-0.15	0.76	3755.85
54	59	6998.50	0.0	0.08	53.55	0.0	-13.41	20.42	-4.99	93.16	0.0
60.67		60.67	-787.83	0.05	0.0	158.0	-13.41	73.97	-4.99	93.16	-787.83
6998.50		0.0	0.0	0.0	0.0	158.0	-13.41	73.97	-4.99	93.16	-787.83
54	62	1462.29	787.83	-0.25	53.55	0.0	13.41	-20.42	4.99	-93.16	0.0 -
60.67		-493.62	0.0	-0.05	0.0	158.0	13.41	33.13	4.99	-93.16	787.83
1462.29		0.0	0.0	0.0	0.0	158.0	13.41	33.13	4.99	-93.16	787.83
54	68	3606.72	0.0	-0.10	53.55	0.0	0.96	-1.34	-14.07	70.34	0.0 -
10.10		-31.92	-2503.96	0.23	0.0	158.0	0.96	52.21	-14.07	70.34	-2503.96
3606.72		0.0	0.0	0.0	0.0	158.0	0.96	52.21	-14.07	70.34	-2503.96
54	69	4854.07	2503.96	-0.07	53.55	0.0	-0.96	1.34	14.07	-70.34	0.0
10.10		10.10	0.0	-0.23	0.0	158.0	-0.96	54.89	14.07	-70.34	2503.96
4854.07		0.0	0.0	0.0	0.0	158.0	-0.96	54.89	14.07	-70.34	2503.96
54	83	5560.36	0.0	0.03	53.55	0.0	-5.12	9.25	-7.45	37.26	0.0
24.03		24.03	-240.53	3.98e-03	0.0	158.0	-5.12	62.80	-7.45	37.26	-240.53
5560.36		0.0	0.0	0.0	0.0	158.0	-5.12	62.80	-7.45	37.26	-240.53
54	84	2776.75	0.0	-0.18	53.55	0.0	4.81	-8.46	-1.52	7.61	0.0 -
25.62		-144.65	-1177.52	0.13	0.0	158.0	4.81	45.09	-1.52	7.61	-1177.52
2776.75		0.0	0.0	0.0	0.0	158.0	4.81	45.09	-1.52	7.61	-1177.52
54	85	5684.04	1177.52	0.02	53.55	0.0	-4.81	8.46	1.52	-7.61	0.0
25.62		25.62	0.0	-0.13	0.0	158.0	-4.81	62.01	1.52	-7.61	1177.52
5684.04		0.0	0.0	0.0	0.0	158.0	-4.81	62.01	1.52	-7.61	1177.52
54	86	2900.43	240.53	-0.20	53.55	0.0	5.12	-9.25	7.45	-37.26	0.0 -
24.03		-121.17	0.0	-3.98e-03	0.0	158.0	5.12	44.30	7.45	-37.26	240.53
2900.43		0.0	0.0	0.0	0.0	158.0	5.12	44.30	7.45	-37.26	240.53
55	1	2792.17	0.0	-0.17	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	4.92e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0

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55	2	2.020e+04	0.0	0.17	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	4.92e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0	4	1.894e+04	0.0	0.14	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04		0.0	0.0	4.92e-03	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0	7	0.0	0.0	-0.36	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	7.62e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	9.01e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	3.28e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	3.28e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0	27	1193.94	0.0	-0.21	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	5.08e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0	44	6900.25	0.0	0.16	53.55	0.0	-7.21	-36.58	33.90	-169.51	-6135.77
6900.25		36.03	-6135.77	-0.59	0.0	158.0	-7.21	16.97	33.90	-169.51	0.0
36.03	45	1560.54	6135.77	2.18e-03	53.55	0.0	7.21	-70.52	-33.90	169.51	6135.77
1560.54		-445.97	0.0	0.59	0.0	158.0	7.21	-16.97	-33.90	169.51	0.0 -
36.03	56	7485.19	0.0	-0.14	53.55	0.0	-11.54	-32.90	2.69	-13.45	-3022.61
7485.19		57.68	-3022.61	-0.32	0.0	158.0	-11.54	20.65	2.69	-13.45	0.0
57.68	57	975.60	3022.61	0.31	53.55	0.0	11.54	-74.20	-2.69	13.45	3022.61
975.60		-661.70	0.0	0.32	0.0	158.0	11.54	-20.65	-2.69	13.45	0.0 -
57.68	76	5131.84	0.0	0.09	53.55	0.0	-2.63	-47.82	13.69	-68.43	-2398.68
5131.84		13.14	-2398.68	-0.22	0.0	158.0	-2.63	5.73	13.69	-68.43	0.0
13.14	77	3328.95	2398.68	0.08	53.55	0.0	2.63	-59.27	-13.69	68.43	2398.68
3328.95		-58.08	0.0	0.22	0.0	158.0	2.63	-5.73	-13.69	68.43	0.0 -
13.14	84	5626.46	0.0	-0.04	53.55	0.0	-5.45	-46.73	-0.95	4.73	-637.78
5626.46		27.24	-637.78	-0.06	0.0	158.0	-5.45	6.82	-0.95	4.73	0.0
27.24	85	2834.33	637.78	0.21	53.55	0.0	5.45	-60.37	0.95	-4.73	637.78
2834.33		-135.17	0.0	0.06	0.0	158.0	5.45	-6.82	0.95	-4.73	0.0 -
27.24	88	5625.56	0.0	-0.04	53.55	0.0	-5.45	-44.70	1.84	-9.20	-1077.78
5625.56		27.25	-1077.78	-0.11	0.0	158.0	-5.45	8.85	1.84	-9.20	0.0
27.25	89	2835.23	1077.78	0.21	53.55	0.0	5.45	-62.40	-1.84	9.20	1077.78
2835.23		-135.01	0.0	0.11	0.0	158.0	5.45	-8.85	-1.84	9.20	0.0 -

27.25	56	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	4.92e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82	56	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	4.92e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04	56	4	2.403e+04	0.0	-0.70	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	4.92e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04	56	7	7564.34	0.0	-0.51	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05			2.29e-05	0.0	7.62e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34	56	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0			0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39	56	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0			0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05	56	23	4546.61	0.0	-0.13	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06			3.05e-06	0.0	9.01e-04	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61	56	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06			9.16e-06	0.0	3.28e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60	56	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06			9.16e-06	0.0	3.28e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04	56	27	6453.02	0.0	-0.37	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05			1.53e-05	0.0	5.08e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02	56	35	6901.82	0.0	-0.16	53.55	0.0	-7.20	6.70	-33.90	169.49	0.0
36.02			36.02	-6136.29	0.59	0.0	158.0	-7.20	60.25	-33.90	169.49	-6136.29
6901.82	56	38	1558.97	6136.29	-1.48e-03	53.55	0.0	7.20	-6.70	33.90	-169.49	0.0
36.02			-446.46	0.0	-0.59	0.0	158.0	7.20	46.85	33.90	-169.49	6136.29
1558.97	56	51	7490.43	0.0	0.14	53.55	0.0	-11.53	-13.58	-2.68	13.40	0.0
57.67			57.67	-3024.35	0.32	0.0	158.0	-11.53	39.97	-2.68	13.40	-3024.35
7490.43	56	54	970.36	3024.35	-0.31	53.55	0.0	11.53	13.58	2.68	-13.40	0.0
57.67			-663.66	0.0	-0.32	0.0	158.0	11.53	67.13	2.68	-13.40	3024.35
970.36	56	67	5131.92	0.0	-0.09	53.55	0.0	-2.63	1.02	-13.69	68.43	0.0
13.14			13.14	-2398.74	0.22	0.0	158.0	-2.63	54.57	-13.69	68.43	-2398.74
5131.92	56	70	3328.87	2398.74	-0.08	53.55	0.0	2.63	-1.02	13.69	-68.43	0.0
13.14			-58.09	0.0	-0.22	0.0	158.0	2.63	52.53	13.69	-68.43	2398.74
3328.87	56	83	5625.84	0.0	0.04	53.55	0.0	-5.45	-6.82	-1.84	9.19	0.0
27.25			27.25	-1077.99	0.11	0.0	158.0	-5.45	46.72	-1.84	9.19	-1077.99
5625.84	56	86	2834.95	1077.99	-0.21	53.55	0.0	5.45	6.82	1.84	-9.19	0.0
27.25			-135.06	0.0	-0.11	0.0	158.0	5.45	60.37	1.84	-9.19	1077.99
2834.95	56	87	5626.74	0.0	0.04	53.55	0.0	-5.45	-8.86	0.95	-4.73	0.0
27.24												

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		27.24	-637.99	0.06	0.0	158.0	-5.45	44.69	0.95	-4.73	-637.99
5626.74											
56	90	2834.05	637.99	-0.21	53.55	0.0	5.45	8.86	-0.95	4.73	0.0 -
27.24											
		-135.22	0.0	-0.06	0.0	158.0	5.45	62.41	-0.95	4.73	637.99
2834.05											
57	1	2792.17	0.0	-0.16	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	6.46e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
57	2	2.020e+04	0.0	0.18	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04											
		0.0	0.0	6.46e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
57	4	1.894e+04	0.0	0.16	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04											
		0.0	0.0	6.46e-03	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
57	7	0.0	0.0	-0.34	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29											
		-373.37	0.0	0.01	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
57	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
57	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
57	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	1.18e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
57	25	2425.50	0.0	-0.10	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	4.31e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
57	26	1.403e+04	0.0	0.13	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	4.31e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
57	27	1193.94	0.0	-0.20	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	6.68e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
57	43	5294.76	0.0	-0.02	53.55	0.0	8.17	-60.36	25.74	-128.69	-4066.46
5294.76											
		-0.24	-4066.46	-0.37	0.0	158.0	8.17	-6.81	25.74	-128.69	0.0 -
0.24											
57	46	3166.02	4066.46	0.18	53.55	0.0	-8.17	-46.73	-25.74	128.69	4066.46
3166.02											
		-66.74	0.0	0.37	0.0	158.0	-8.17	6.81	-25.74	128.69	0.0
0.24											
57	51	1887.23	0.0	0.29	53.55	0.0	14.93	-32.14	12.37	-61.87	-1954.95
1887.23											
		-368.18	-1954.95	-0.24	0.0	158.0	14.93	21.41	12.37	-61.87	0.0 -
62.38											
57	54	6573.56	1954.95	-0.12	53.55	0.0	-14.93	-74.96	-12.37	61.87	1954.95
6573.56											
		62.38	0.0	0.24	0.0	158.0	-14.93	-21.41	-12.37	61.87	0.0
62.38											
57	56	7671.27	242.10	-0.22	53.55	0.0	-12.49	-75.32	-1.53	7.66	242.10
7671.27											
		74.61	0.0	0.09	0.0	158.0	-12.49	-21.77	-1.53	7.66	0.0
74.61											
57	57	789.52	0.0	0.38	53.55	0.0	12.49	-31.78	1.53	-7.66	-242.10
789.52											
		-742.06	-242.10	-0.09	0.0	158.0	12.49	21.77	1.53	-7.66	0.0 -
74.61											
57	75	4514.42	0.0	0.07	53.55	0.0	2.74	-55.37	12.18	-60.89	-1924.23
4514.42											
		-2.21	-1924.23	-0.18	0.0	158.0	2.74	-1.82	12.18	-60.89	0.0 -
2.21											
57	78	3946.37	1924.23	0.10	53.55	0.0	-2.74	-51.73	-12.18	60.89	1924.23

3946.37											
2.21		0.84	0.0	0.18	0.0	158.0	-2.74	1.82	-12.18	60.89	0.0
57	83	3198.47	0.0	0.19	53.55	0.0	5.66	-44.71	5.01	-25.06	-792.05
3198.47		-84.60	-792.05	-0.10	0.0	158.0	5.66	8.84	5.01	-25.06	0.0
24.81											
57	86	5262.32	792.05	-0.03	53.55	0.0	-5.66	-62.39	-5.01	25.06	792.05
5262.32		24.81	0.0	0.10	0.0	158.0	-5.66	-8.84	-5.01	25.06	0.0
24.81											
57	88	5639.40	0.0	-0.06	53.55	0.0	-4.96	-62.47	0.05	-0.25	-7.98
5639.40		28.28	-7.98	0.03	0.0	158.0	-4.96	-8.92	0.05	-0.25	0.0
28.28											
57	89	2821.39	7.98	0.22	53.55	0.0	4.96	-44.63	-0.05	0.25	7.98
2821.39		-138.44	0.0	-0.03	0.0	158.0	4.96	8.92	-0.05	0.25	0.0
28.28											
58	1	7884.82	0.0	-0.37	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	6.46e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
58	2	2.530e+04	0.0	-0.71	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	6.46e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
58	4	2.403e+04	0.0	-0.69	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	6.46e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04											
58	7	7564.34	0.0	-0.49	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05		2.29e-05	0.0	0.01	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
58	9	8526.40	0.0	-0.41	96.75	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	7.22e-03	0.0	158.0	0.0	96.75	0.0	0.0	0.0
8526.40											
58	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
58	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
58	23	4546.61	0.0	-0.13	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06		3.05e-06	0.0	1.18e-03	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
58	24	4444.25	0.0	-0.10	56.03	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	2.53e-04	0.0	158.0	0.0	56.03	0.0	0.0	0.0
4444.25											
58	25	5820.60	0.0	-0.26	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	4.31e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
58	26	1.743e+04	0.0	-0.49	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	4.31e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
58	27	6453.02	0.0	-0.35	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	6.68e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
58	29	6248.32	0.0	-0.29	71.64	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	4.82e-03	0.0	158.0	0.0	71.64	0.0	0.0	0.0
6248.32											
58	36	1447.54	0.0	0.01	53.55	0.0	0.05	17.67	-25.74	128.70	0.0
40.89		-484.63	-4066.94	0.37	0.0	158.0	0.05	71.22	-25.74	128.70	-4066.94
1447.54											

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58	37	7013.24	4066.94	-0.18	53.55	0.0	-0.05	-17.67	25.74	-128.70	0.0
40.89		40.89	0.0	-0.37	0.0	158.0	-0.05	35.88	25.74	-128.70	4066.94
7013.24											
58	52	788.89	0.0	-0.28	53.55	0.0	12.50	21.77	-15.46	77.28	0.0 -
74.69		-742.34	-2442.12	0.28	0.0	158.0	12.50	75.32	-15.46	77.28	-2442.12
788.89											
58	53	7671.90	2442.12	0.11	53.55	0.0	-12.50	-21.77	15.46	-77.28	0.0
74.69		74.69	0.0	-0.28	0.0	158.0	-12.50	31.78	15.46	-77.28	2442.12
7671.90											
58	55	6574.19	729.26	0.21	53.55	0.0	-14.95	-14.78	4.62	-23.08	0.0
62.46		62.46	0.0	-0.13	0.0	158.0	-14.95	38.77	4.62	-23.08	729.26
6574.19											
58	58	1886.60	0.0	-0.37	53.55	0.0	14.95	14.78	-4.62	23.08	0.0 -
62.46		-368.39	-729.26	0.13	0.0	158.0	14.95	68.33	-4.62	23.08	-729.26
1886.60											
58	68	3217.59	0.0	-0.07	53.55	0.0	0.44	6.43	-12.18	60.89	0.0 -
13.72		-72.51	-1924.26	0.18	0.0	158.0	0.44	59.98	-12.18	60.89	-1924.26
3217.59											
58	69	5243.20	1924.26	-0.10	53.55	0.0	-0.44	-6.43	12.18	-60.89	0.0
13.72		13.72	0.0	-0.18	0.0	158.0	-0.44	47.12	12.18	-60.89	1924.26
5243.20											
58	84	2821.12	0.0	-0.19	53.55	0.0	4.97	8.92	-6.66	33.31	0.0 -
28.28		-138.50	-1052.65	0.12	0.0	158.0	4.97	62.47	-6.66	33.31	-1052.65
2821.12											
58	85	5639.67	1052.65	0.03	53.55	0.0	-4.97	-8.92	6.66	-33.31	0.0
28.28		28.28	0.0	-0.12	0.0	158.0	-4.97	44.63	6.66	-33.31	1052.65
5639.67											
58	87	5262.59	252.62	0.06	53.55	0.0	-5.66	-6.52	1.60	-7.99	0.0
24.81		24.81	0.0	-0.05	0.0	158.0	-5.66	47.03	1.60	-7.99	252.62
5262.59											
58	90	3198.20	0.0	-0.22	53.55	0.0	5.66	6.52	-1.60	7.99	0.0 -
24.81		-84.64	-252.62	0.05	0.0	158.0	5.66	60.07	-1.60	7.99	-252.62
3198.20											
59	1	2792.17	0.0	-0.06	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	6.80e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
59	2	2.020e+04	0.0	0.28	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	6.80e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
59	4	1.894e+04	0.0	0.26	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04		0.0	0.0	6.80e-03	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
59	7	0.0	0.0	-0.18	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	0.01	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
59	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
59	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
59	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	1.24e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
59	25	2425.50	0.0	-0.03	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	4.53e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0

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0.0 59 1.403e+04	26	1.403e+04	0.0	0.20	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	4.53e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 59 1193.94	27	1193.94	0.0	-0.09	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	7.02e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 59 1965.27	43	1965.27	0.0	0.22	53.55	0.0	2.44	-39.20	32.25	-161.27	-5096.11
		-311.03	-5096.11	-0.53	0.0	158.0	2.44	14.35	32.25	-161.27	0.0 -
12.20 59 6495.52	46	6495.52	5096.11	-0.06	53.55	0.0	-2.44	-67.90	-32.25	161.27	5096.11
		12.20	0.0	0.53	0.0	158.0	-2.44	-14.35	-32.25	161.27	0.0
12.20 59 1167.76	53	1167.76	0.0	0.22	53.55	0.0	20.55	-34.27	12.31	-61.57	-1945.68
		-617.80	-1945.68	-0.34	0.0	158.0	20.55	19.28	12.31	-61.57	0.0 -
102.73 59 6415.22	56	6415.22	1632.59	-0.06	53.55	0.0	-20.55	-67.25	-10.33	51.66	1632.59
		102.76	0.0	0.32	0.0	158.0	-20.55	-13.70	-10.33	51.66	0.0
102.76 59 2045.57	57	2045.57	0.0	0.22	53.55	0.0	20.55	-39.85	10.33	-51.66	-1632.59
		-358.88	-1632.59	-0.32	0.0	158.0	20.55	13.70	10.33	-51.66	0.0 -
102.76 59 7301.28	58	7301.28	4168.18	-0.11	53.55	0.0	-18.50	-72.88	-26.38	131.90	4168.18
		92.51	0.0	0.55	0.0	158.0	-18.50	-19.33	-26.38	131.90	0.0
92.51 59 3403.26	75	3403.26	0.0	0.14	53.55	0.0	0.34	-48.29	13.10	-65.49	-2069.53
		-38.76	-2069.53	-0.22	0.0	158.0	0.34	5.26	13.10	-65.49	0.0 -
1.68 59 5057.53	78	5057.53	2069.53	0.03	53.55	0.0	-0.34	-58.81	-13.10	65.49	2069.53
		1.68	0.0	0.22	0.0	158.0	-0.34	-5.26	-13.10	65.49	0.0
1.68 59 3010.54	85	3010.54	0.0	0.15	53.55	0.0	6.08	-45.82	4.21	-21.07	-665.74
		-113.00	-665.74	-0.12	0.0	158.0	6.08	7.72	4.21	-21.07	0.0 -
30.42 59 5148.50	88	5148.50	487.01	0.02	53.55	0.0	-6.08	-59.35	-3.08	15.41	487.01
		30.42	0.0	0.10	0.0	158.0	-6.08	-5.80	-3.08	15.41	0.0
30.42 59 3312.29	89	3312.29	0.0	0.15	53.55	0.0	6.08	-47.75	3.08	-15.41	-487.01
		-75.28	-487.01	-0.10	0.0	158.0	6.08	5.80	3.08	-15.41	0.0 -
30.42 59 5452.18	90	5452.18	1545.78	-0.02	53.55	0.0	-5.26	-61.29	-9.78	48.92	1545.78
		26.32	0.0	0.20	0.0	158.0	-5.26	-7.74	-9.78	48.92	0.0
26.32 60 1.37e-05	1	7884.82	0.0	-0.27	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	6.80e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82 60 1.37e-05	2	2.530e+04	0.0	-0.61	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	6.80e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04 60 1.37e-05	4	2.403e+04	0.0	-0.59	293.65	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	6.80e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04 60 2.29e-05	7	7564.34	0.0	-0.33	78.93	0.0	0.0	0.0	0.0	0.0	0.0
		2.29e-05	0.0	0.01	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34 60 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0

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4230.39		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
60	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
60	23	4546.61	0.0	-0.11	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06		3.05e-06	0.0	1.24e-03	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61		0.0	0.0	0.0	0.0	158.0	0.0	55.45	0.0	0.0	0.0
60	25	5820.60	0.0	-0.19	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	4.53e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60		0.0	0.0	0.0	0.0	158.0	0.0	66.68	0.0	0.0	0.0
60	26	1.743e+04	0.0	-0.42	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	4.53e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04		0.0	0.0	0.0	0.0	158.0	0.0	213.62	0.0	0.0	0.0
60	27	6453.02	0.0	-0.25	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	7.02e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02		0.0	0.0	0.0	0.0	158.0	0.0	70.47	0.0	0.0	0.0
60	36	1964.09	0.0	-0.22	53.55	0.0	2.43	-14.35	-32.26	161.28	0.0 -
12.15		-311.29	-5096.43	0.53	0.0	158.0	2.43	39.20	-32.26	161.28	-5096.43
1964.09		0.0	0.0	0.0	0.0	158.0	2.43	39.20	-32.26	161.28	-5096.43
60	37	6496.69	5096.43	0.06	53.55	0.0	-2.43	14.35	32.26	-161.28	0.0
12.15		12.15	0.0	-0.53	0.0	158.0	-2.43	67.90	32.26	-161.28	5096.43
6496.69		0.0	0.0	0.0	0.0	158.0	-2.43	67.90	32.26	-161.28	5096.43
60	51	6419.14	1633.67	0.06	53.55	0.0	-20.52	13.72	10.34	-51.70	0.0
102.61		102.61	0.0	-0.32	0.0	158.0	-20.52	67.27	10.34	-51.70	1633.67
6419.14		0.0	0.0	0.0	0.0	158.0	-20.52	67.27	10.34	-51.70	1633.67
60	52	1155.59	0.0	-0.28	53.55	0.0	18.47	-19.36	-26.39	131.94	0.0 -
92.36		-615.88	-4169.27	0.55	0.0	158.0	18.47	34.19	-26.39	131.94	-4169.27
1155.59		0.0	0.0	0.0	0.0	158.0	18.47	34.19	-26.39	131.94	-4169.27
60	53	7305.20	4169.27	0.11	53.55	0.0	-18.47	19.36	26.39	-131.94	0.0
92.36		92.36	0.0	-0.55	0.0	158.0	-18.47	72.91	26.39	-131.94	4169.27
7305.20		0.0	0.0	0.0	0.0	158.0	-18.47	72.91	26.39	-131.94	4169.27
60	54	2041.65	0.0	-0.22	53.55	0.0	20.52	-13.72	-10.34	51.70	0.0 -
102.61		-359.75	-1633.67	0.32	0.0	158.0	20.52	39.83	-10.34	51.70	-1633.67
2041.65		0.0	0.0	0.0	0.0	158.0	20.52	39.83	-10.34	51.70	-1633.67
60	68	3403.24	0.0	-0.14	53.55	0.0	0.33	-5.26	-13.10	65.49	0.0 -
1.67		-38.75	-2069.54	0.22	0.0	158.0	0.33	48.29	-13.10	65.49	-2069.54
3403.24		0.0	0.0	0.0	0.0	158.0	0.33	48.29	-13.10	65.49	-2069.54
60	69	5057.55	2069.54	-0.04	53.55	0.0	-0.33	5.26	13.10	-65.49	0.0
1.67		1.67	0.0	-0.22	0.0	158.0	-0.33	58.81	13.10	-65.49	2069.54
5057.55		0.0	0.0	0.0	0.0	158.0	-0.33	58.81	13.10	-65.49	2069.54
60	83	5148.58	487.05	-0.03	53.55	0.0	-6.08	5.80	3.08	-15.41	0.0
30.39		30.39	0.0	-0.10	0.0	158.0	-6.08	59.35	3.08	-15.41	487.05
5148.58		0.0	0.0	0.0	0.0	158.0	-6.08	59.35	3.08	-15.41	487.05
60	84	3008.52	0.0	-0.17	53.55	0.0	5.26	-7.74	-9.78	48.92	0.0 -
26.29		-109.64	-1545.82	0.20	0.0	158.0	5.26	45.81	-9.78	48.92	-1545.82
3008.52		0.0	0.0	0.0	0.0	158.0	5.26	45.81	-9.78	48.92	-1545.82
60	85	5452.27	1545.82	-0.02	53.55	0.0	-5.26	7.74	9.78	-48.92	0.0
26.29		26.29	0.0	-0.20	0.0	158.0	-5.26	61.29	9.78	-48.92	1545.82
5452.27		0.0	0.0	0.0	0.0	158.0	-5.26	61.29	9.78	-48.92	1545.82
60	86	3312.21	0.0	-0.15	53.55	0.0	6.08	-5.80	-3.08	15.41	0.0 -
30.39		-75.26	-487.05	0.10	0.0	158.0	6.08	47.75	-3.08	15.41	-487.05
3312.21		0.0	0.0	0.0	0.0	158.0	6.08	47.75	-3.08	15.41	-487.05
61	1	0.0	0.0	-1.10e-03	-1.78	0.0	0.0	0.0	0.0	0.0	0.0
0.0		-6.94	0.0	3.36e-04	0.0	7.8	0.0	-1.78	0.0	0.0	0.0 -
6.94		0.0	0.0	0.0	0.0	7.8	0.0	-1.78	0.0	0.0	0.0 -
61	2	0.0	0.0	-3.49e-03	-1.78	0.0	0.0	0.0	0.0	0.0	0.0

0.0			-6.94	0.0	3.36e-04	0.0	7.8	0.0	-1.78	0.0	0.0	0.0	-
6.94	61	5	0.0	0.0	-1.02e-03	-1.78	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-6.94	0.0	5.20e-04	0.0	7.8	0.0	-1.78	0.0	0.0	0.0	-
6.94	61	7	0.0	0.0	-7.54e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	5.20e-04	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	9	0.0	0.0	-1.15e-03	-1.78	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-6.94	0.0	3.75e-04	0.0	7.8	0.0	-1.78	0.0	0.0	0.0	-
6.94	61	21	0.0	0.0	-8.85e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	0.0	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	22	0.0	0.0	-1.20e-03	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	0.0	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	23	0.0	0.0	-8.57e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	6.14e-05	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	24	0.0	0.0	-9.01e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	1.32e-05	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	25	0.0	0.0	-8.52e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	2.24e-04	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	26	0.0	0.0	-2.45e-03	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	2.24e-04	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	27	0.0	0.0	-7.97e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	3.47e-04	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	29	0.0	0.0	-8.86e-04	-1.37	0.0	0.0	0.0	0.0	0.0	0.0	-
0.0			-5.34	0.0	2.50e-04	0.0	7.8	0.0	-1.37	0.0	0.0	0.0	-
5.34	61	39	1.15	0.0	-4.52e-03	-1.37	0.0	-0.19	-0.04	-0.17	1.01	0.0	-
1.11			-3.34	-1.32	-1.42e-03	0.0	7.8	-0.19	-1.41	-0.17	1.01	-1.32	-
3.34	61	42	-1.11	1.32	2.75e-03	-1.37	0.0	0.19	0.04	0.17	-1.01	0.0	-
1.11			-7.34	0.0	1.42e-03	0.0	7.8	0.19	-1.33	0.17	-1.01	1.32	-
7.34	61	59	0.63	0.0	-1.89e-03	-1.37	0.0	-0.09	0.16	-0.28	1.69	0.0	-
0.52			-3.24	-2.19	4.23e-03	0.0	7.8	-0.09	-1.21	-0.28	1.69	-2.19	-
3.24	61	62	-0.52	2.19	1.25e-04	-1.37	0.0	0.09	-0.16	0.28	-1.69	0.0	-
0.52			-7.43	0.0	-4.23e-03	0.0	7.8	0.09	-1.53	0.28	-1.69	2.19	-
7.43	61	71	0.54	0.0	-2.63e-03	-1.37	0.0	-0.09	-0.01	-0.07	0.41	0.0	-
0.54			-4.60	-0.53	-1.32e-03	0.0	7.8	-0.09	-1.38	-0.07	0.41	-0.53	-
4.60	61	74	-0.54	0.53	8.62e-04	-1.37	0.0	0.09	0.01	0.07	-0.41	0.0	-
0.54			-6.08	0.0	1.32e-03	0.0	7.8	0.09	-1.36	0.07	-0.41	0.53	-
6.08	61	91	0.19	0.0	-1.40e-03	-1.37	0.0	-0.03	0.02	-0.11	0.69	0.0	-
0.19			-4.88	-0.90	4.72e-04	0.0	7.8	-0.03	-1.35	-0.11	0.69	-0.90	-
4.88													-

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture				PAGE 213 di/of 308	
61	94	-0.19	0.90	-3.73e-04	-1.37	0.0	0.03	-0.02	0.11	-0.69	0.0	-	
0.19													
		-5.80	0.0	-4.72e-04	0.0	7.8	0.03	-1.39	0.11	-0.69	0.90	-	
5.80													
62	2	-44.86	-2.212e+04	-5.36e-03	0.0	0.0	-140.06	0.46	-17.73	-411.93	-2.212e+04	-	
105.91													
		-105.91	-2.281e+04	0.05	30.12	132.0	-140.06	0.46	12.39	-411.93	-2.247e+04	-	
44.86													
62	5	-69.49	-5088.73	-8.31e-03	0.0	0.0	-36.69	0.72	-16.26	-638.08	-5088.73	-	
164.05													
		-164.05	-5666.82	0.01	30.12	132.0	-36.69	0.72	13.86	-638.08	-5246.72	-	
69.49													
62	7	-69.49	-3706.46	-8.31e-03	0.0	0.0	-26.96	0.72	-12.49	-638.08	-3706.46	-	
164.05													
		-164.05	-4149.80	8.75e-03	23.17	132.0	-26.96	0.72	10.68	-638.08	-3825.61	-	
69.49													
62	22	0.0	-6802.79	0.0	0.0	0.0	-45.75	0.0	-12.76	0.0	-6802.79		
0.0													
		0.0	-7266.08	0.02	23.17	132.0	-45.75	0.0	10.41	0.0	-6957.40		
0.0													
62	23	-8.21	-4418.73	-9.81e-04	0.0	0.0	-31.28	0.08	-12.55	-75.39	-4418.73	-	
19.38													
		-19.38	-4866.66	0.01	23.17	132.0	-31.28	0.08	10.62	-75.39	-4546.04	-	
8.21													
62	26	-29.91	-1.536e+04	-3.57e-03	0.0	0.0	-97.70	0.31	-13.50	-274.62	-1.536e+04	-	
70.61													
		-70.61	-1.588e+04	0.03	23.17	132.0	-97.70	0.31	9.67	-274.62	-1.561e+04	-	
29.91													
62	27	-46.33	-4006.83	-5.54e-03	0.0	0.0	-28.78	0.48	-12.51	-425.39	-4006.83	-	
109.37													
		-109.37	-4452.11	9.38e-03	23.17	132.0	-28.78	0.48	10.66	-425.39	-4129.42	-	
46.33													
62	39	6564.49	-1158.30	-2.82e-03	0.0	0.0	-73.45	-31.37	30.92	-163.52	-6851.85		
6564.49													
		-4255.11	-6851.85	-0.02	23.17	132.0	-73.45	-31.37	54.09	-163.52	-1158.30	-	
4255.11													
62	40	4753.55	-1213.68	-3.28e-03	0.0	0.0	-74.18	-42.00	30.06	-1338.68	-6786.85		
4753.55													
		-5920.00	-6786.85	-0.02	23.17	132.0	-74.18	-42.00	53.23	-1338.68	-1213.68	-	
5920.00													
62	41	5920.00	-2428.28	3.28e-03	0.0	0.0	9.33	42.00	-55.20	1338.68	-2428.28	-	
4753.55													
		-4753.55	-8260.39	0.03	23.17	132.0	9.33	42.00	-32.03	1338.68	-8260.39		
5920.00													
62	42	4255.11	-2363.27	2.82e-03	0.0	0.0	8.60	31.37	-56.05	163.52	-2363.27	-	
6564.49													
		-6564.49	-8315.77	0.03	23.17	132.0	8.60	31.37	-32.88	163.52	-8315.77		
4255.11													
62	52	-3921.73	-3687.42	-0.02	0.0	0.0	-45.26	-43.02	0.13	-2994.75	-5241.98	-	
3921.73													
		-9116.93	-5241.98	7.06e-03	23.17	132.0	-45.26	-43.02	23.30	-2994.75	-3687.42	-	
9116.93													
62	53	9116.93	-3973.15	0.02	0.0	0.0	-19.59	43.02	-25.26	2994.75	-3973.15		
3921.73													
		3921.73	-5786.65	0.01	23.17	132.0	-19.59	43.02	-2.10	2994.75	-5786.65		
9116.93													
62	71	1972.44	-3049.91	2.31e-03	0.0	0.0	-45.15	-14.31	7.49	-171.50	-5579.74		
1972.44													
		-1445.51	-5579.74	-0.01	23.17	132.0	-45.15	-14.31	30.66	-171.50	-3049.91	-	
1445.51													
62	72	1399.51	-3058.32	6.72e-04	0.0	0.0	-45.30	-17.73	7.37	-443.23	-5570.88		
1399.51													
		-2128.32	-5570.88	-0.01	23.17	132.0	-45.30	-17.73	30.54	-443.23	-3058.32	-	
2128.32													
62	73	2128.32	-3644.24	-6.72e-04	0.0	0.0	-19.55	17.73	-32.50	443.23	-3644.24	-	
1399.51													
		-1399.51	-6415.75	0.02	23.17	132.0	-19.55	17.73	-9.33	443.23	-6415.75		
2128.32													
62	74	1445.51	-3635.39	-2.31e-03	0.0	0.0	-19.70	14.31	-32.62	171.50	-3635.39	-	
1972.44													
		-1972.44	-6424.16	0.02	23.17	132.0	-19.70	14.31	-9.45	171.50	-6424.16		
1445.51													
62	84	-1325.67	-4234.92	-8.91e-03	0.0	0.0	-36.34	-16.08	-6.61	-897.35	-4893.27	-	
1325.67													
		-3251.07	-5016.07	8.91e-03	23.17	132.0	-36.34	-16.08	16.56	-897.35	-4234.92	-	

3251.07 62 1325.67	85	3251.07 1325.67	-4321.85 -5300.12	8.91e-03 0.01	0.0 23.17	0.0 132.0	-28.51 -28.51	16.08 16.08	-18.52 4.65	897.35 897.35	-4321.85 -5239.15
3251.07 63 136.49	1	136.49 47.43	7510.28 -7190.40	6.00e-03 0.04	0.0 30.12	0.0 132.0	-28.69 -28.69	-0.67 -0.67	-126.43 -96.31	3717.69 3717.69	7510.28 -7190.40
47.43 63 136.49	2	136.49 47.43	2.736e+04 -2.782e+04	6.00e-03 0.16	0.0 30.12	0.0 132.0	-100.31 -100.31	-0.67 -0.67	-433.11 -402.99	3717.69 3717.69	2.736e+04 -2.782e+04
47.43 63 211.42	5	211.42 73.47	6827.17 -6480.59	9.29e-03 0.04	0.0 30.12	0.0 132.0	-26.23 -26.23	-1.05 -1.05	-115.88 -85.76	5758.77 5758.77	6827.17 -6480.59
73.47 63 211.42	7	211.42 73.47	5000.92 -4724.51	9.29e-03 0.03	0.0 23.17	0.0 132.0	-19.27 -19.27	-1.05 -1.05	-85.26 -62.09	5758.77 5758.77	5000.92 -4724.51
73.47 63 0.0	22	0.0 0.0	8734.54 -8604.12	0.0 0.05	0.0 23.17	0.0 132.0	-32.74 -32.74	0.0 0.0	-142.94 -119.77	0.0 0.0	8734.54 -8604.12
0.0 63 24.98	23	24.98 8.68	5859.79 -5616.96	1.10e-03 0.03	0.0 23.17	0.0 132.0	-22.37 -22.37	-0.12 -0.12	-98.53 -75.36	680.36 680.36	5859.79 -5616.96
8.68 63 90.99	25	90.99 31.62	5818.52 -5574.08	4.00e-03 0.03	0.0 23.17	0.0 132.0	-22.22 -22.22	-0.45 -0.45	-97.89 -74.72	2478.46 2478.46	5818.52 -5574.08
31.62 63 90.99	26	90.99 31.62	1.905e+04 -1.933e+04	4.00e-03 0.11	0.0 23.17	0.0 132.0	-69.97 -69.97	-0.45 -0.45	-302.35 -279.18	2478.46 2478.46	1.905e+04 -1.933e+04
31.62 63 140.95	27	140.95 48.98	5363.11 -5100.87	6.19e-03 0.03	0.0 23.17	0.0 132.0	-20.58 -20.58	-0.70 -0.70	-90.86 -67.69	3839.18 3839.18	5363.11 -5100.87
48.98 63 3960.95	36	3960.95 -3819.85	180.93 -6971.79	-0.03 0.04	0.0 23.17	0.0 132.0	16.38 16.38	-41.27 -41.27	-65.26 -42.09	263.34 263.34	180.93 -6971.79 -
3819.85 63 3960.95	37	3819.85 -3960.95	1.199e+04 -4735.35	0.03 0.03	0.0 23.17	0.0 132.0	-62.76 -62.76	41.27 41.27	-138.83 -115.66	-263.34 -263.34	1.199e+04 - -4735.35
3819.85 63 2676.41	39	2676.41 -2739.54	27.18 -6854.83	-0.04 0.04	0.0 23.17	0.0 132.0	18.90 18.90	-25.47 -25.47	-63.23 -40.06	-2040.50 -2040.50	27.18 -6854.83 -
2739.54 63 3958.05	40	3958.05 -3809.13	306.36 -7046.64	-0.03 0.04	0.0 23.17	0.0 132.0	15.25 15.25	-41.62 -41.62	-66.78 -43.61	277.83 277.83	306.36 -7046.64 -
3809.13 63 2676.41	42	2739.54 -2676.41	1.215e+04 -4852.31	0.04 0.03	0.0 23.17	0.0 132.0	-65.28 -65.28	25.47 25.47	-140.87 -117.70	2040.50 2040.50	1.215e+04 - -4852.31
2739.54 63 1141.88	71	1141.88 -762.95	3231.79 -6358.27	-0.01 0.04	0.0 23.17	0.0 132.0	-5.49 -5.49	-11.58 -11.58	-84.13 -60.96	-696.63 -696.63	3231.79 -6358.27 -
762.95 63 1773.81	72	1773.81 -1238.44	3278.75 -6391.60	-6.69e-03 0.04	0.0 23.17	0.0 132.0	-6.39 -6.39	-19.53 -19.53	-84.73 -61.56	360.04 360.04	3278.75 -6391.60 -
1238.44 63 1773.81	73	1238.44 -1773.81	8896.23 -5315.54	6.69e-03 0.03	0.0 23.17	0.0 132.0	-39.99 -39.99	19.53 19.53	-119.36 -96.19	-360.04 -360.04	8896.23 - -5315.54
1238.44 63 1141.88	74	762.95 8943.19	8943.19	0.01	0.0	0.0	-40.89	11.58	-119.97	696.63	8943.19 -

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		-1141.88	-5348.87	0.03	23.17	132.0	-40.89	11.58	-96.80	696.63	-5348.87
762.95											
64	2	-30.80	-1640.14	2.43e-03	0.0	0.0	-100.71	0.29	-218.09	1666.86	-1640.14 -
68.59		-68.59	-2.844e+04	0.11	30.12	132.0	-100.71	0.29	-187.97	1666.86	-2.844e+04 -
30.80											
64	7	-47.71	-86.86	3.76e-03	0.0	0.0	-19.32	0.44	-47.53	2582.00	-86.86 -
106.25		-106.25	-4832.05	0.02	23.17	132.0	-19.32	0.44	-24.36	2582.00	-4832.05 -
47.71											
64	22	0.0	-360.18	0.0	0.0	0.0	-32.85	0.0	-75.51	0.0	-360.18
0.0		0.0	-8797.74	0.03	23.17	132.0	-32.85	0.0	-52.34	0.0	-8797.74
0.0											
64	23	-5.64	-149.73	4.45e-04	0.0	0.0	-22.44	0.05	-53.97	305.05	-149.73 -
12.55		-12.55	-5744.30	0.02	23.17	132.0	-22.44	0.05	-30.80	305.05	-5744.30 -
5.64											
64	26	-20.53	-1115.62	1.62e-03	0.0	0.0	-70.24	0.19	-152.82	1111.24	-1115.62 -
45.73		-45.73	-1.976e+04	0.08	23.17	132.0	-70.24	0.19	-129.65	1111.24	-1.976e+04 -
20.53											
64	27	-31.81	-113.37	2.51e-03	0.0	0.0	-20.64	0.30	-50.25	1721.33	-113.37 -
70.84		-70.84	-5216.75	0.02	23.17	132.0	-20.64	0.30	-27.08	1721.33	-5216.75 -
31.81											
64	39	3421.14	-3931.47	0.02	0.0	0.0	4.88	-29.17	-21.99	-243.03	-3931.47
3421.14		-1078.73	-5238.18	0.02	23.17	132.0	4.88	-29.17	1.18	-243.03	-5229.72 -
1078.73											
64	41	2772.18	3531.26	-0.03	0.0	0.0	-48.38	37.70	-90.89	-902.36	3531.26 -
2327.74		-2327.74	-6893.93	0.04	23.17	132.0	-48.38	37.70	-67.72	-902.36	-6893.93
2772.18											
64	42	1078.73	3598.67	-0.02	0.0	0.0	-51.40	29.17	-89.36	243.03	3598.67 -
3421.14		-3421.14	-6742.60	0.04	23.17	132.0	-51.40	29.17	-66.19	243.03	-6742.60
1078.73											
64	52	-1376.40	-1260.99	0.03	0.0	0.0	-17.02	-26.64	-44.69	2582.55	-1260.99 -
1376.40		-3794.73	-5654.98	0.02	23.17	132.0	-17.02	-26.64	-21.52	2582.55	-5654.98 -
3794.73											
64	53	3794.73	928.19	-0.03	0.0	0.0	-29.51	26.64	-66.66	-2582.55	928.19
1376.40		1376.40	-6317.34	0.03	23.17	132.0	-29.51	26.64	-43.49	-2582.55	-6317.34
3794.73											
64	71	1172.88	-1950.82	2.94e-03	0.0	0.0	-13.70	-12.64	-39.35	-174.11	-1950.82
1172.88		-624.83	-5605.35	0.02	23.17	132.0	-13.70	-12.64	-16.18	-174.11	-5605.35 -
624.83											
64	73	1270.53	1605.91	-5.16e-03	0.0	0.0	-32.11	16.54	-72.25	-312.96	1605.91 -
880.17		-880.17	-6393.14	0.03	23.17	132.0	-32.11	16.54	-49.08	-312.96	-6393.14
1270.53											
64	74	624.83	1618.03	-2.94e-03	0.0	0.0	-32.83	12.64	-72.00	174.11	1618.03 -
1172.88		-1172.88	-6366.97	0.03	23.17	132.0	-32.83	12.64	-48.83	174.11	-6366.97
624.83											
64	84	-337.96	-696.25	8.60e-03	0.0	0.0	-20.80	-11.94	-50.63	1090.99	-696.25 -
337.96		-1542.90	-5853.00	0.02	23.17	132.0	-20.80	-11.94	-27.46	1090.99	-5853.00 -
1542.90											
64	85	1542.90	363.45	-8.60e-03	0.0	0.0	-25.72	11.94	-60.72	-1090.99	363.45
337.96		337.96	-6119.32	0.03	23.17	132.0	-25.72	11.94	-37.55	-1090.99	-6119.32
1542.90											
65	2	3.31	-1.970e+04	-1.46e-04	0.0	0.0	-100.58	-0.09	-12.12	-34.07	-2.009e+04
3.31		-8.56	-2.041e+04	0.04	30.12	132.0	-100.58	-0.09	18.00	-34.07	-1.970e+04 -
8.56											
65	6	5.13	-1.185e+04	-2.26e-04	0.0	0.0	-62.35	-0.14	-13.28	-52.77	-1.208e+04
5.13		-13.25	-1.247e+04	0.03	30.12	132.0	-62.35	-0.14	16.84	-52.77	-1.185e+04 -
13.25											
65	7	5.13	-3273.43	-2.26e-04	0.0	0.0	-19.55	-0.14	-11.07	-52.77	-3340.97

5.13												
			-13.25	-3689.50	7.60e-03	23.17	132.0	-19.55	-0.14	12.10	-52.77	-3273.43
13.25												
65	22		0.0	-6037.34	0.0	0.0	0.0	-33.00	0.0	-10.67	0.0	-6158.56
0.0			0.0	-6481.85	0.01	23.17	132.0	-33.00	0.0	12.50	0.0	-6037.34
0.0												
65	23		0.61	-3909.23	-2.67e-05	0.0	0.0	-22.64	-0.02	-10.98	-6.23	-3989.12
0.61			-1.57	-4331.47	8.94e-03	23.17	132.0	-22.64	-0.02	12.19	-6.23	-3909.23
1.57												
65	26		2.21	-1.368e+04	-9.72e-05	0.0	0.0	-70.18	-0.06	-9.54	-22.71	-1.395e+04
2.21			-5.70	-1.420e+04	0.03	23.17	132.0	-70.18	-0.06	13.63	-22.71	-1.368e+04
5.70												
65	27		3.42	-3541.55	-1.51e-04	0.0	0.0	-20.85	-0.09	-11.03	-35.18	-3614.30
3.42			-8.83	-3960.22	8.17e-03	23.17	132.0	-20.85	-0.09	12.14	-35.18	-3541.55
8.83												
65	28		3.42	-8440.43	-1.51e-04	0.0	0.0	-44.70	-0.09	-10.31	-35.18	-8608.32
3.42			-8.83	-8911.19	0.02	23.17	132.0	-44.70	-0.09	12.86	-35.18	-8440.43
8.83												
65	36		1503.21	-1656.66	-0.01	0.0	0.0	-0.56	-27.40	25.32	14.41	-6548.76
1503.21			-2514.96	-6548.76	-0.02	23.17	132.0	-0.56	-27.40	48.48	14.41	-1656.66
2514.96												
65	37		2514.96	-1773.16	0.01	0.0	0.0	-46.37	27.40	-47.22	-14.41	-1773.16
1503.21			-1503.21	-6498.93	0.02	23.17	132.0	-46.37	27.40	-24.05	-14.41	-6498.93
2514.96												
65	39		2424.36	-1720.89	-0.01	0.0	0.0	2.54	-31.33	25.04	-68.03	-6501.61
2424.36			-1555.02	-6501.61	-0.02	23.17	132.0	2.54	-31.33	48.21	-68.03	-1720.89
1555.02												
65	40		1592.39	-1619.35	-0.01	0.0	0.0	-2.46	-28.24	25.47	-360.31	-6566.86
1592.39			-2448.68	-6566.86	-0.02	23.17	132.0	-2.46	-28.24	48.64	-360.31	-1619.35
2448.68												
65	42		1555.02	-1820.31	0.01	0.0	0.0	-49.46	31.33	-46.95	68.03	-1820.31
2424.36			-2424.36	-6434.69	0.02	23.17	132.0	-49.46	31.33	-23.78	68.03	-6434.69
1555.02												
65	68		684.61	-2938.83	-1.69e-03	0.0	0.0	-17.39	-13.50	6.11	6.84	-5277.88
684.61			-1154.44	-5277.88	-9.19e-03	23.17	132.0	-17.39	-13.50	29.28	6.84	-2938.83
1154.44												
65	69		1154.44	-3044.03	1.69e-03	0.0	0.0	-29.54	13.50	-28.02	-6.84	-3044.03
684.61			-684.61	-5216.75	0.01	23.17	132.0	-29.54	13.50	-4.85	-6.84	-5216.75
1154.44												
65	71		1081.49	-2949.09	-1.55e-03	0.0	0.0	-16.83	-14.35	6.07	-4.06	-5269.83
1081.49			-757.41	-5269.83	-9.18e-03	23.17	132.0	-16.83	-14.35	29.24	-4.06	-2949.09
757.41												
65	72		748.80	-2932.62	-2.35e-03	0.0	0.0	-17.76	-13.51	6.14	-74.74	-5281.43
748.80			-1093.17	-5281.43	-9.19e-03	23.17	132.0	-17.76	-13.51	29.31	-74.74	-2932.62
1093.17												
65	74		757.41	-3052.08	1.55e-03	0.0	0.0	-30.09	14.35	-27.98	4.06	-3052.08
1081.49			-1081.49	-5206.49	0.01	23.17	132.0	-30.09	14.35	-4.81	4.06	-5206.49
757.41												
66	2		11.64	2.325e+04	3.81e-03	0.0	0.0	-114.17	0.19	-407.04	3361.78	2.325e+04
13.78			-13.78	-2.849e+04	0.16	30.12	132.0	-114.17	0.19	-376.92	3361.78	-2.849e+04
11.64												
66	6		18.03	1.426e+04	5.90e-03	0.0	0.0	-70.53	0.30	-253.41	5207.47	1.426e+04
21.34			-21.34	-1.720e+04	0.10	30.12	132.0	-70.53	0.30	-223.29	5207.47	-1.720e+04
18.03												
66	7		18.03	4287.16	5.90e-03	0.0	0.0	-21.81	0.30	-80.73	5207.47	4287.16
21.34			-21.34	-4839.54	0.03	23.17	132.0	-21.81	0.30	-57.56	5207.47	-4839.54
18.03												

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66 21.34	8	18.03 1.270e+04	5.90e-03	0.0	0.0	-62.64	0.30	-224.47	5207.47 1.270e+04 -				
		-21.34 -1.540e+04	0.09	23.17	132.0	-62.64	0.30	-201.30	5207.47 -1.540e+04				
18.03 66 0.0	22	0.0 7451.61	0.0	0.0	0.0	-37.17	0.0	-134.79	0.0 7451.61				
		0.0 -8811.79	0.05	23.17	132.0	-37.17	0.0	-111.62	0.0 -8811.79				
0.0 66 2.52	23	2.13 5015.10	6.97e-04	0.0	0.0	-25.34	0.04	-93.16	615.23 5015.10 -				
		-2.52 -5753.30	0.03	23.17	132.0	-25.34	0.04	-69.99	615.23 -5753.30				
2.13 66 9.19	26	7.76 1.620e+04	2.54e-03	0.0	0.0	-79.62	0.13	-284.22	2241.19 1.620e+04 -				
		-9.19 -1.979e+04	0.11	23.17	132.0	-79.62	0.13	-261.05	2241.19 -1.979e+04				
7.76 66 14.23	27	12.02 4594.14	3.93e-03	0.0	0.0	-23.30	0.20	-85.97	3471.64 4594.14 -				
		-14.23 -5224.88	0.03	23.17	132.0	-23.30	0.20	-62.80	3471.64 -5224.88				
12.02 66 14.23	28	12.02 1.020e+04	3.93e-03	0.0	0.0	-50.52	0.20	-181.80	3471.64 1.020e+04 -				
		-14.23 -1.227e+04	0.07	23.17	132.0	-50.52	0.20	-158.63	3471.64 -1.227e+04				
12.02 66 1588.31	39	1588.31 179.26	-7.28e-03	0.0	0.0	20.57	-22.95	-61.38	-1785.37 179.26				
		-1517.68 -6614.16	0.03	23.17	132.0	20.57	-22.95	-38.21	-1785.37 -6614.16 -				
1517.68 66 1588.31	42	1517.68 1.024e+04	7.28e-03	0.0	0.0	-73.13	22.95	-131.54	1785.37 1.024e+04 -				
		-1588.31 -5376.95	0.04	23.17	132.0	-73.13	22.95	-108.37	1785.37 -5376.95				
1517.68 66 2478.44	52	2478.44 3766.87	0.02	0.0	0.0	-15.49	-43.06	-87.06	4894.43 3766.87				
		-3585.59 -6096.53	0.03	23.17	132.0	-15.49	-43.06	-63.89	4894.43 -6096.53 -				
3585.59 66 2478.44	53	3585.59 6649.31	-0.02	0.0	0.0	-37.06	43.06	-105.86	-4894.43 6649.31 -				
		-2478.44 -5894.58	0.04	23.17	132.0	-37.06	43.06	-82.69	-4894.43 -5894.58				
3585.59 66 761.68	71	761.68 2820.41	-1.85e-03	0.0	0.0	-10.23	-10.77	-80.07	-550.95 2820.41				
		-655.94 -6245.89	0.03	23.17	132.0	-10.23	-10.77	-56.90	-550.95 -6245.89 -				
655.94 66 761.68	74	655.94 7595.77	1.85e-03	0.0	0.0	-42.33	10.77	-112.85	550.95 7595.77 -				
		-761.68 -5745.22	0.04	23.17	132.0	-42.33	10.77	-89.68	550.95 -5745.22				
655.94 66 1125.17	84	1125.17 4501.38	8.42e-03	0.0	0.0	-21.99	-19.25	-91.71	2091.92 4501.38				
		-1460.42 -6057.93	0.03	23.17	132.0	-21.99	-19.25	-68.54	2091.92 -6057.93 -				
1460.42 66 1125.17	85	1460.42 5914.79	-8.42e-03	0.0	0.0	-30.57	19.25	-101.22	-2091.92 5914.79 -				
		-1125.17 -5933.18	0.03	23.17	132.0	-30.57	19.25	-78.05	-2091.92 -5933.18				
1460.42 67 7.58	2	7.58 -4550.72	2.19e-03	0.0	0.0	-119.56	-0.59	-188.33	1369.06 -4550.72				
		-70.81 -2.742e+04	0.10	30.12	132.0	-119.56	-0.59	-158.21	1369.06 -2.742e+04 -				
70.81 67 11.74	5	11.74 -837.73	3.39e-03	0.0	0.0	-31.11	-0.92	-57.01	2120.70 -837.73				
		-109.68 -6375.04	0.02	30.12	132.0	-31.11	-0.92	-26.89	2120.70 -6375.04 -				
109.68 67 11.74	6	11.74 -2632.47	3.39e-03	0.0	0.0	-73.86	-0.92	-120.49	2120.70 -2632.47				
		-109.68 -1.655e+04	0.06	30.12	132.0	-73.86	-0.92	-90.37	2120.70 -1.655e+04 -				
109.68 67 11.74	7	11.74 -599.07	3.39e-03	0.0	0.0	-22.85	-0.92	-42.25	2120.70 -599.07				
		-109.68 -4646.89	0.02	23.17	132.0	-22.85	-0.92	-19.08	2120.70 -4646.89 -				
109.68 67 0.0	22	0.0 -1274.13	0.0	0.0	0.0	-38.93	0.0	-66.13	0.0 -1274.13				
		0.0 -8473.46	0.03	23.17	132.0	-38.93	0.0	-42.96	0.0 -8473.46				

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0.0 67 1.39	23	1.39	-754.36	4.00e-04	0.0	0.0	-26.55	-0.11	-47.74	250.55	-754.36				
			-12.96	-5527.14	0.02	23.17	132.0	-26.55	-0.11	-24.57	250.55	-5527.14	-		
12.96 67 5.05	26	5.05	-3139.89	1.46e-03	0.0	0.0	-83.38	-0.40	-132.11	912.71	-3139.89				
			-47.20	-1.905e+04	0.07	23.17	132.0	-83.38	-0.40	-108.94	912.71	-1.905e+04	-		
47.20 67 7.83	27	7.83	-664.56	2.26e-03	0.0	0.0	-24.41	-0.61	-44.57	1413.80	-664.56				
			-73.12	-5018.09	0.02	23.17	132.0	-24.41	-0.61	-21.40	1413.80	-5018.09	-		
73.12 67 7.83	28	7.83	-1861.05	2.26e-03	0.0	0.0	-52.91	-0.61	-86.88	1413.80	-1861.05				
			-73.12	-1.180e+04	0.04	23.17	132.0	-52.91	-0.61	-63.71	1413.80	-1.180e+04	-		
73.12 67 2517.40	39	2517.40	-4363.49	0.04	0.0	0.0	12.69	-35.48	-14.22	853.90	-4363.49				
			-3005.36	-4904.07	0.01	23.17	132.0	12.69	-35.48	8.95	853.90	-4654.97	-		
3005.36 67 1945.21	41	4346.31	2800.81	-0.04	0.0	0.0	-62.73	43.34	-84.58	-1474.86	2800.81				
			-1945.21	-6900.36	0.04	23.17	132.0	-62.73	43.34	-61.41	-1474.86	-6900.36			
4346.31 67 2517.40	42	3005.36	2772.44	-0.04	0.0	0.0	-67.74	35.48	-84.18	-853.90	2772.44				
			-2517.40	-6866.05	0.04	23.17	132.0	-67.74	35.48	-61.01	-853.90	-6866.05			
3005.36 67 1189.19	52	-1189.19	-1884.11	0.02	0.0	0.0	-18.06	-39.90	-38.42	2499.00	-1884.11				
			-6143.83	-5399.74	0.02	23.17	132.0	-18.06	-39.90	-15.25	2499.00	-5399.74	-		
6143.83 67 1189.19	53	6143.83	293.06	-0.02	0.0	0.0	-36.99	39.90	-59.98	-2499.00	293.06				
			1189.19	-6121.28	0.03	23.17	132.0	-36.99	39.90	-36.81	-2499.00	-6121.28			
6143.83 67 998.98	71	998.98	-2499.20	7.28e-03	0.0	0.0	-14.85	-14.32	-32.75	142.47	-2499.20				
			-1025.81	-5287.42	0.02	23.17	132.0	-14.85	-14.32	-9.58	142.47	-5287.42	-		
1025.81 67 820.59	73	1507.95	913.21	-7.62e-03	0.0	0.0	-39.22	17.43	-65.74	-440.98	913.21				
			-820.59	-6240.91	0.03	23.17	132.0	-39.22	17.43	-42.57	-440.98	-6240.91			
1507.95 67 998.98	74	1025.81	908.15	-7.28e-03	0.0	0.0	-40.21	14.32	-65.65	-142.47	908.15				
			-998.98	-6233.60	0.03	23.17	132.0	-40.21	14.32	-42.48	-142.47	-6233.60			
1025.81 67 295.49	84	-295.49	-1309.53	7.15e-03	0.0	0.0	-24.14	-14.47	-44.21	1023.87	-1309.53				
			-1996.60	-5614.06	0.02	23.17	132.0	-24.14	-14.47	-21.04	1023.87	-5614.06	-		
1996.60 67 295.49	85	1996.60	-281.53	-7.15e-03	0.0	0.0	-30.92	14.47	-54.18	-1023.87	-281.53				
			295.49	-5906.95	0.02	23.17	132.0	-30.92	14.47	-31.01	-1023.87	-5906.95			
1996.60 68 6.94	1	0.0	0.0	1.11e-03	-1.78	0.0	0.0	1.78	0.0	0.0	0.0				
			-6.94	0.0	-3.36e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0			
0.0 68 6.94	2	0.0	0.0	3.53e-03	-1.78	0.0	0.0	1.78	0.0	0.0	0.0				
			-6.94	0.0	-3.36e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0			
0.0 68 6.94	6	0.0	0.0	2.24e-03	-1.78	0.0	0.0	1.78	0.0	0.0	0.0				
			-6.94	0.0	-5.20e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0			
0.0 68 5.34	11	0.0	0.0	8.94e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0				
			-5.34	0.0	-3.75e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0			
0.0 68 5.34	21	0.0	0.0	8.93e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0				

	0.0		-5.34	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0
5.34	68	22	0.0	0.0	1.22e-03	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
			-5.34	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	8.65e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	23	0.0	0.0								
			-5.34	0.0	-6.14e-05	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	9.10e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	24	0.0	0.0								
			-5.34	0.0	-1.32e-05	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	8.60e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	25	0.0	0.0								
			-5.34	0.0	-2.24e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	2.47e-03	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	26	0.0	0.0								
			-5.34	0.0	-2.24e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	8.05e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	27	0.0	0.0								
			-5.34	0.0	-3.47e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	8.94e-04	-1.37	0.0	0.0	1.37	0.0	0.0	0.0 -
5.34	68	29	0.0	0.0								
			-5.34	0.0	-2.50e-04	0.0	7.8	0.0	0.0	0.0	0.0	0.0
	0.0		-5.34	0.0	-2.72e-03	-1.37	0.0	0.18	1.29	-0.13	0.78	1.02 -
7.18	68	40	-1.09	1.02								
			-7.18	0.0	-2.51e-03	0.0	7.8	0.18	-0.08	-0.13	0.78	0.0 -
	1.09		1.12	0.0	4.51e-03	-1.37	0.0	-0.18	1.45	0.13	-0.78	-1.02 -
3.50	68	41										
			-3.50	-1.02	2.51e-03	0.0	7.8	-0.18	0.08	0.13	-0.78	0.0
	1.09		-0.35	2.09	-1.84e-04	-1.37	0.0	0.06	1.37	-0.27	1.61	2.09 -
6.10	68	52										
			-6.10	0.0	4.26e-03	0.0	7.8	0.06	1.14e-03	-0.27	1.61	0.0 -
	0.35		0.35	0.0	1.97e-03	-1.37	0.0	-0.06	1.37	0.27	-1.61	-2.09 -
4.58	68	53										
			-4.58	-2.09	-4.26e-03	0.0	7.8	-0.06	-1.14e-03	0.27	-1.61	0.0
	0.35		-0.54	0.41	-8.43e-04	-1.37	0.0	0.09	1.35	-0.05	0.31	0.41 -
6.07	68	72										
			-6.07	0.0	-1.54e-03	0.0	7.8	0.09	-0.02	-0.05	0.31	0.0 -
	0.54		0.54	0.0	2.63e-03	-1.37	0.0	-0.09	1.38	0.05	-0.31	-0.41 -
4.61	68	73										
			-4.61	-0.41	1.54e-03	0.0	7.8	-0.09	0.02	0.05	-0.31	0.0
	0.54		-0.16	0.90	3.73e-04	-1.37	0.0	0.03	1.37	-0.12	0.69	0.90 -
5.59	68	84										
			-5.59	0.0	4.89e-04	0.0	7.8	0.03	-2.11e-04	-0.12	0.69	0.0 -
	0.16		0.16	0.0	1.41e-03	-1.37	0.0	-0.03	1.37	0.12	-0.69	-0.90 -
5.08	68	85										
			-5.08	-0.90	-4.89e-04	0.0	7.8	-0.03	2.11e-04	0.12	-0.69	0.0
	0.16		2.31	3.823e+04	-9.68e-03	0.0	0.0	-140.06	0.46	583.48	-5504.58	-2.247e+04 -
44.86	69	2										
			-44.86	-2.247e+04	-0.16	23.27	102.0	-140.06	0.46	606.75	-5504.58	3.823e+04
	2.31		3.57	9094.69	-0.01	0.0	0.0	-36.69	0.72	128.96	-8526.70	-5246.72 -
69.49	69	5										
			-69.49	-5246.72	-0.04	23.27	102.0	-36.69	0.72	152.24	-8526.70	9094.69
	3.57		3.57	6640.18	-0.01	0.0	0.0	-26.96	0.72	93.65	-8526.70	-3825.61 -
69.49	69	7										
			-69.49	-3825.61	-0.03	17.90	102.0	-26.96	0.72	111.56	-8526.70	6640.18
	3.57		0.0	1.194e+04	0.0	0.0	0.0	-45.75	0.0	176.29	0.0	-6957.40
69	69	22										

0.0			0.0	-6957.40	-0.05	17.90	102.0	-45.75	0.0	194.19	0.0	1.194e+04
0.0												
69	23	0.42	7858.66	-1.77e-03	0.0	0.0	-31.28	0.08	112.66	-1007.37	-4546.04	-
8.21												
		-8.21	-4546.04	-0.03	17.90	102.0	-31.28	0.08	130.57	-1007.37	7858.66	-
0.42												
69	26	1.54	2.658e+04	-6.45e-03	0.0	0.0	-97.70	0.31	404.68	-3669.72	-1.561e+04	-
29.91												
		-29.91	-1.561e+04	-0.11	17.90	102.0	-97.70	0.31	422.58	-3669.72	2.658e+04	-
1.54												
69	27	2.38	7154.02	-1.00e-02	0.0	0.0	-28.78	0.48	101.67	-5684.47	-4129.42	-
46.33												
		-46.33	-4129.42	-0.03	17.90	102.0	-28.78	0.48	119.57	-5684.47	7154.02	-
2.38												
69	40	3720.46	1.525e+04	-0.16	0.0	0.0	-94.45	-40.10	157.01	-3703.49	-1455.06	-
3720.46												
		-4002.72	-1455.06	-0.02	17.90	102.0	-94.45	-40.10	174.91	-3703.49	1.525e+04	-
4002.72												
69	41	4002.72	1111.06	0.16	0.0	0.0	29.60	40.10	78.40	3703.49	-8019.01	-
3720.46												
		-3720.46	-8019.01	-0.05	17.90	102.0	29.60	40.10	96.30	3703.49	1111.06	-
4002.72												
69	42	5564.40	1162.84	0.15	0.0	0.0	28.80	59.13	79.42	2054.70	-8077.63	-
5279.89												
		-5279.89	-8077.63	-0.05	17.90	102.0	28.80	59.13	97.33	2054.70	1162.84	-
5564.40												
69	51	7090.69	1.026e+04	-8.31e-03	0.0	0.0	-50.38	-62.90	128.92	4472.22	-3725.24	-
7090.69												
		-7639.36	-3725.24	-0.03	17.90	102.0	-50.38	-62.90	146.83	4472.22	1.026e+04	-
7639.36												
69	54	7639.36	6099.45	8.31e-03	0.0	0.0	-14.47	62.90	106.48	-4472.22	-5748.83	-
7090.69												
		-7090.69	-5748.83	-0.04	17.90	102.0	-14.47	62.90	124.39	-4472.22	6099.45	-
7639.36												
69	72	1128.66	1.154e+04	-0.05	0.0	0.0	-59.32	-15.42	135.90	-1345.83	-3181.89	-
1128.66												
		-1615.72	-3181.89	-0.03	17.90	102.0	-59.32	-15.42	153.81	-1345.83	1.154e+04	-
1615.72												
69	73	1615.72	4827.69	0.05	0.0	0.0	-5.53	15.42	99.50	1345.83	-6292.18	-
1128.66												
		-1128.66	-6292.18	-0.04	17.90	102.0	-5.53	15.42	117.41	1345.83	4827.69	-
1615.72												
69	74	2219.36	4836.24	0.05	0.0	0.0	-5.71	23.57	99.66	472.51	-6301.54	-

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70 31.62	26	31.62	-2508.24	2.61e-04	0.0	0.0	-69.97	-0.45	115.83	-916.64	-1.933e+04		
27.75		-27.75	-1.933e+04	-0.07	23.17	132.0	-69.97	-0.45	139.00	-916.64	-2508.24	-	
70 48.98	27	48.98	-492.60	4.05e-04	0.0	0.0	-20.58	-0.70	23.33	-1419.90	-5100.87		
42.99		-42.99	-5100.87	-0.02	23.17	132.0	-20.58	-0.70	46.50	-1419.90	-492.60	-	
70 48.98	28	48.98	-1466.90	4.05e-04	0.0	0.0	-44.45	-0.70	68.04	-1419.90	-1.198e+04		
42.99		-42.99	-1.198e+04	-0.04	23.17	132.0	-44.45	-0.70	91.21	-1419.90	-1466.90	-	
70 2648.15	36	2648.15	3221.10	9.98e-03	0.0	0.0	-38.85	-28.62	67.40	139.90	-7224.66		
3904.54		-3904.54	-7224.66	-0.04	23.17	132.0	-38.85	-28.62	90.57	139.90	3221.10	-	
70 2648.15	37	3904.54	-4419.60	-9.98e-03	0.0	0.0	-7.54	28.62	-10.96	-139.90	-4482.48	-	
3904.54		-2648.15	-4833.33	8.81e-03	23.17	132.0	-7.54	28.62	12.21	-139.90	-4419.60		
70 2649.19	40	2649.19	3237.63	9.47e-03	0.0	0.0	-40.01	-28.92	67.84	-831.55	-7301.28		
3799.93		-3799.93	-7301.28	-0.04	23.17	132.0	-40.01	-28.92	91.01	-831.55	3237.63	-	
70 2649.19	41	3799.93	-4405.86	-9.47e-03	0.0	0.0	-6.38	28.92	-11.40	831.55	-4405.86	-	
3799.93		-2649.19	-4803.29	8.81e-03	23.17	132.0	-6.38	28.92	11.77	831.55	-4436.13		
70 1466.51	67	1466.51	1221.03	1.61e-03	0.0	0.0	-28.79	-17.71	46.89	-268.96	-6500.28		
983.06		-983.06	-6500.28	-0.03	23.17	132.0	-28.79	-17.71	70.06	-268.96	1221.03	-	
70 1466.51	70	983.06	-2419.53	-1.61e-03	0.0	0.0	-17.59	17.71	9.55	268.96	-5206.86	-	
983.06		-1466.51	-5206.86	-0.01	23.17	132.0	-17.59	17.71	32.72	268.96	-2419.53		
70 991.92	72	991.92	1224.79	2.61e-03	0.0	0.0	-29.34	-14.25	47.02	-270.43	-6520.60		
1295.18		-1295.18	-6520.60	-0.03	23.17	132.0	-29.34	-14.25	70.19	-270.43	1224.79	-	
70 991.92	73	1295.18	-2423.29	-2.61e-03	0.0	0.0	-17.04	14.25	9.42	270.43	-5186.54	-	
1295.18		-991.92	-5186.54	-0.01	23.17	132.0	-17.04	14.25	32.59	270.43	-2423.29		
71 30.80	2	6.99	2.412e+04	-4.51e-03	0.0	0.0	-100.71	0.29	383.12	-3425.80	-2.844e+04	-	
6.99		-30.80	-2.844e+04	-0.16	30.12	132.0	-100.71	0.29	413.24	-3425.80	2.412e+04		
71 47.71	7	10.83	4433.42	-6.99e-03	0.0	0.0	-19.32	0.44	58.61	-5306.63	-4832.05	-	
10.83		-47.71	-4832.05	-0.03	23.17	132.0	-19.32	0.44	81.78	-5306.63	4433.42		
71 0.0	22	0.0	7718.51	0.0	0.0	0.0	-32.85	0.0	113.54	0.0	-8797.74		
0.0		0.0	-8797.74	-0.05	23.17	132.0	-32.85	0.0	136.71	0.0	7718.51		
71 5.64	23	1.28	5189.11	-8.26e-04	0.0	0.0	-22.44	0.05	71.24	-626.94	-5744.30	-	
1.28		-5.64	-5744.30	-0.03	23.17	132.0	-22.44	0.05	94.41	-626.94	5189.11		
71 20.53	26	4.66	1.680e+04	-3.01e-03	0.0	0.0	-70.24	0.19	265.36	-2283.86	-1.976e+04	-	
4.66		-20.53	-1.976e+04	-0.11	23.17	132.0	-70.24	0.19	288.53	-2283.86	1.680e+04		
71 31.81	27	7.22	4752.10	-4.66e-03	0.0	0.0	-20.64	0.30	63.94	-3537.75	-5216.75	-	
7.22		-31.81	-5216.75	-0.03	23.17	132.0	-20.64	0.30	87.11	-3537.75	4752.10		
71 3436.39	39	3436.39	1.040e+04	3.36e-03	0.0	0.0	-53.68	-43.22	109.22	1698.02	-5492.57		
2475.16		-2475.16	-5492.57	-0.04	23.17	132.0	-53.68	-43.22	132.39	1698.02	1.040e+04	-	
71 1646.77	40	1646.77	1.032e+04	-7.41e-03	0.0	0.0	-56.92	-24.84	107.56	-484.54	-5345.63		
1646.77		-1614.18	-5345.63	-0.04	23.17	132.0	-56.92	-24.84	130.73	-484.54	1.032e+04	-	

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1614.18 71 1646.77	41	1614.18	460.64	7.41e-03	0.0	0.0	10.39	24.84	41.63	484.54	-6626.69	-		
		-1646.77	-6626.69	-0.03	23.17	132.0	10.39	24.84	64.80	484.54	460.64			
1614.18 71 4216.33	51	4216.33	6942.53	0.01	0.0	0.0	-30.88	-47.72	85.76	4028.08	-5894.67			
		-2427.62	-5894.67	-0.04	23.17	132.0	-30.88	-47.72	108.93	4028.08	6942.53	-		
2427.62 71 4216.33	54	2427.62	3836.39	-0.01	0.0	0.0	-15.64	47.72	63.42	-4028.08	-6077.65	-		
		-4216.33	-6077.65	-0.03	23.17	132.0	-15.64	47.72	86.59	-4028.08	3836.39			
2427.62 71 1310.66	71	1310.66	7762.05	1.95e-03	0.0	0.0	-37.33	-18.45	90.71	634.93	-5737.90			
		-1156.18	-5737.90	-0.04	23.17	132.0	-37.33	-18.45	113.88	634.93	7762.05	-		
1156.18 71 651.93	72	651.93	7746.21	-2.42e-03	0.0	0.0	-38.12	-10.64	90.41	-356.84	-5712.48			
		-745.34	-5712.48	-0.04	23.17	132.0	-38.12	-10.64	113.58	-356.84	7746.21	-		
745.34 71 651.93	73	745.34	3032.71	2.42e-03	0.0	0.0	-8.40	10.64	58.78	356.84	-6259.84	-		
		-651.93	-6259.84	-0.03	23.17	132.0	-8.40	10.64	81.95	356.84	3032.71			
745.34 71 1592.21	83	1592.21	6111.31	5.54e-03	0.0	0.0	-27.23	-20.16	79.58	1860.44	-5922.22			
		-1119.91	-5922.22	-0.04	23.17	132.0	-27.23	-20.16	102.75	1860.44	6111.31	-		
1119.91 71 1592.21	86	1119.91	4667.61	-5.54e-03	0.0	0.0	-19.29	20.16	69.60	-1860.44	-6050.10	-		
		-1592.21	-6050.10	-0.03	23.17	132.0	-19.29	20.16	92.77	-1860.44	4667.61			
1119.91 72 8.56	2	-8.56	4.525e+04	-5.47e-03	0.0	0.0	-100.58	-0.09	589.09	-5126.73	-1.970e+04	-		
		-18.27	-1.970e+04	-0.13	24.64	108.0	-100.58	-0.09	613.73	-5126.73	4.525e+04	-		
18.27 72 8.56	3	-8.56	9158.12	-5.47e-03	0.0	0.0	-22.01	-0.09	110.31	-5126.73	-3779.12	-		
		-18.27	-3779.12	-0.03	18.96	108.0	-22.01	-0.09	129.27	-5126.73	9158.12	-		
18.27 72 13.25	6	-13.25	2.754e+04	-8.47e-03	0.0	0.0	-62.35	-0.14	352.35	-7941.40	-1.185e+04	-		
		-28.29	-1.185e+04	-0.08	24.64	108.0	-62.35	-0.14	377.00	-7941.40	2.754e+04	-		
28.29 72 13.25	7	-13.25	8017.63	-8.47e-03	0.0	0.0	-19.55	-0.14	95.07	-7941.40	-3273.43	-		
		-28.29	-3273.43	-0.02	18.96	108.0	-19.55	-0.14	114.03	-7941.40	8017.63	-		
28.29 72 0.0	21	0.0	9831.72	0.0	0.0	0.0	-23.46	0.0	119.31	0.0	-4077.79			
		0.0	-4077.79	-0.03	18.96	108.0	-23.46	0.0	138.27	0.0	9831.72			
0.0 72 0.0	22	0.0	1.425e+04	0.0	0.0	0.0	-33.00	0.0	178.38	0.0	-6037.34			
		0.0	-6037.34	-0.04	18.96	108.0	-33.00	0.0	197.33	0.0	1.425e+04			
0.0 72 1.57	23	-1.57	9451.56	-1.00e-03	0.0	0.0	-22.64	-0.02	114.23	-938.22	-3909.23	-		
		-3.34	-3909.23	-0.03	18.96	108.0	-22.64	-0.02	133.19	-938.22	9451.56	-		
3.34 72 5.70	25	-5.70	9382.65	-3.64e-03	0.0	0.0	-22.49	-0.06	113.31	-3417.82	-3878.68	-		
		-12.18	-3878.68	-0.03	18.96	108.0	-22.49	-0.06	132.27	-3417.82	9382.65	-		
12.18 72 5.70	26	-5.70	3.148e+04	-3.64e-03	0.0	0.0	-70.18	-0.06	408.63	-3417.82	-1.368e+04	-		
		-12.18	-1.368e+04	-0.09	18.96	108.0	-70.18	-0.06	427.59	-3417.82	3.148e+04	-		
12.18 72 8.83	27	-8.83	8622.33	-5.65e-03	0.0	0.0	-20.85	-0.09	103.15	-5294.27	-3541.55	-		
		-18.86	-3541.55	-0.03	18.96	108.0	-20.85	-0.09	122.11	-5294.27	8622.33	-		
18.86 72 8.83	28	-8.83	1.967e+04	-5.65e-03	0.0	0.0	-44.70	-0.09	250.81	-5294.27	-8440.43	-		

LUMINORA LA FEUDALE SRL Powertis				green & green WE ENGINEERING				CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture PAGE 223 di/of 308				
18.86		-18.86	-8440.43	-0.06	18.96	108.0	-44.70	-0.09	269.77	-5294.27	1.967e+04	-
72	40	1508.79	1.553e+04	9.10e-03	0.0	0.0	-77.38	-20.68	153.43	-2006.21	-1889.39	
1508.79		-592.75	-1889.39	-0.02	18.96	108.0	-77.38	-20.68	172.39	-2006.21	1.553e+04	-
592.75		592.75	4133.15	-9.10e-03	0.0	0.0	30.46	20.68	85.19	2006.21	-6266.19	-
72	41	592.75	4133.15	-9.10e-03	0.0	0.0	30.46	20.68	85.19	2006.21	-6266.19	-
1508.79		-1508.79	-6266.19	-0.04	18.96	108.0	30.46	20.68	104.15	2006.21	4133.15	
592.75		2402.61	1.141e+04	0.01	0.0	0.0	-35.77	-55.76	127.85	5300.90	-3474.80	
72	51	2402.61	1.141e+04	0.01	0.0	0.0	-35.77	-55.76	127.85	5300.90	-3474.80	
2402.61		-3988.82	-3474.80	-0.03	18.96	108.0	-35.77	-55.76	146.80	5300.90	1.141e+04	-
3988.82		3988.82	8253.59	-0.01	0.0	0.0	-11.15	55.76	110.78	-5300.90	-4680.78	-
72	54	3988.82	8253.59	-0.01	0.0	0.0	-11.15	55.76	110.78	-5300.90	-4680.78	-
2402.61		-2402.61	-4680.78	-0.03	18.96	108.0	-11.15	55.76	129.74	-5300.90	8253.59	
3988.82		740.67	1.253e+04	1.06e-03	0.0	0.0	-47.76	-9.51	135.25	-661.17	-3064.44	
72	72	740.67	1.253e+04	1.06e-03	0.0	0.0	-47.76	-9.51	135.25	-661.17	-3064.44	
740.67		-251.48	-3064.44	-0.03	18.96	108.0	-47.76	-9.51	154.20	-661.17	1.253e+04	-
251.48		251.48	7129.69	-1.06e-03	0.0	0.0	0.83	9.51	103.38	661.17	-5091.15	-
72	73	251.48	7129.69	-1.06e-03	0.0	0.0	0.83	9.51	103.38	661.17	-5091.15	-
740.67		-740.67	-5091.15	-0.03	18.96	108.0	0.83	9.51	122.34	661.17	7129.69	
251.48		1084.09	1.062e+04	5.31e-03	0.0	0.0	-30.16	-25.66	123.83	2410.69	-3781.75	
72	83	1084.09	1.062e+04	5.31e-03	0.0	0.0	-30.16	-25.66	123.83	2410.69	-3781.75	
1084.09		-1803.07	-3781.75	-0.03	18.96	108.0	-30.16	-25.66	142.78	2410.69	1.062e+04	-
1803.07		1803.07	9042.21	-5.31e-03	0.0	0.0	-16.76	25.66	114.80	-2410.69	-4373.83	-
72	86	1803.07	9042.21	-5.31e-03	0.0	0.0	-16.76	25.66	114.80	-2410.69	-4373.83	-
1084.09		-1084.09	-4373.83	-0.03	18.96	108.0	-16.76	25.66	133.76	-2410.69	9042.21	
1803.07		37.06	12.95	-2.41e-03	0.0	0.0	-32.50	0.19	40.83	-1730.87	-7364.97	
73	1	37.06	12.95	-2.41e-03	0.0	0.0	-32.50	0.19	40.83	-1730.87	-7364.97	
11.64		11.64	-7364.97	-0.03	30.12	132.0	-32.50	0.19	70.95	-1730.87	12.95	
37.06		37.06	-868.67	-2.41e-03	0.0	0.0	-114.17	0.19	194.17	-1730.87	-2.849e+04	
73	2	37.06	-868.67	-2.41e-03	0.0	0.0	-114.17	0.19	194.17	-1730.87	-2.849e+04	
11.64		11.64	-2.849e+04	-0.11	30.12	132.0	-114.17	0.19	224.29	-1730.87	-868.67	
37.06		57.41	-397.53	-3.73e-03	0.0	0.0	-70.53	0.30	112.22	-2681.16	-1.720e+04	
73	6	57.41	-397.53	-3.73e-03	0.0	0.0	-70.53	0.30	112.22	-2681.16	-1.720e+04	
18.03		18.03	-1.720e+04	-0.07	30.12	132.0	-70.53	0.30	142.34	-2681.16	-397.53	
57.41		57.41	44.43	-3.73e-03	0.0	0.0	-21.81	0.30	25.42	-2681.16	-4839.54	
73	7	57.41	44.43	-3.73e-03	0.0	0.0	-21.81	0.30	25.42	-2681.16	-4839.54	
18.03		18.03	-4839.54	-0.02	23.17	132.0	-21.81	0.30	48.58	-2681.16	44.43	
57.41		0.0	-3.82	0.0	0.0	0.0	-26.28	0.0	33.81	0.0	-5995.56	
73	21	0.0	-3.82	0.0	0.0	0.0	-26.28	0.0	33.81	0.0	-5995.56	
0.0		0.0	-5995.56	-0.02	23.17	132.0	-26.28	0.0	56.98	0.0	-3.82	
73		0.0	-121.37	0.0	0.0	0.0	-37.17	0.0	54.25	0.0	-8811.79	
0.0	22	0.0	-121.37	0.0	0.0	0.0	-37.17	0.0	54.25	0.0	-8811.79	
73		0.0	-8811.79	-0.03	23.17	132.0	-37.17	0.0	77.42	0.0	-121.37	
0.0		6.78	6.29	-4.40e-04	0.0	0.0	-25.34	0.04	32.05	-316.76	-5753.30	
73	23	6.78	6.29	-4.40e-04	0.0	0.0	-25.34	0.04	32.05	-316.76	-5753.30	
2.13		2.13	-5753.30	-0.02	23.17	132.0	-25.34	0.04	55.22	-316.76	6.29	
6.78		24.71	8.12	-1.60e-03	0.0	0.0	-25.17	0.13	31.73	-1153.92	-5709.39	
73	25	24.71	8.12	-1.60e-03	0.0	0.0	-25.17	0.13	31.73	-1153.92	-5709.39	
7.76		7.76	-5709.39	-0.02	23.17	132.0	-25.17	0.13	54.90	-1153.92	8.12	
24.71		24.71	-579.62	-1.60e-03	0.0	0.0	-79.62	0.13	133.95	-1153.92	-1.979e+04	
73	26	24.71	-579.62	-1.60e-03	0.0	0.0	-79.62	0.13	133.95	-1153.92	-1.979e+04	
7.76		7.76	-1.979e+04	-0.07	23.17	132.0	-79.62	0.13	157.12	-1153.92	-579.62	
24.71		38.27	28.35	-2.48e-03	0.0	0.0	-23.30	0.20	28.21	-1787.44	-5224.88	
73	27	38.27	28.35	-2.48e-03	0.0	0.0	-23.30	0.20	28.21	-1787.44	-5224.88	
12.02		12.02	-5224.88	-0.02	23.17	132.0	-23.30	0.20	51.38	-1787.44	28.35	
38.27		38.27	-265.53	-2.48e-03	0.0	0.0	-50.52	0.20	79.32	-1787.44	-1.227e+04	
73	28	38.27	-265.53	-2.48e-03	0.0	0.0	-50.52	0.20	79.32	-1787.44	-1.227e+04	

12.02											
		12.02	-1.227e+04	-0.05	23.17	132.0	-50.52	0.20	102.49	-1787.44	-265.53
38.27											
73	39	2623.35	3830.33	5.26e-03	0.0	0.0	-55.16	-33.90	69.37	-36.37	-6859.01
2623.35		-1953.41	-6859.01	-0.04	23.17	132.0	-55.16	-33.90	92.54	-36.37	3830.33
1953.41											
73	40	1466.87	3856.92	1.86e-03	0.0	0.0	-61.80	-26.63	68.28	-1175.77	-6738.22
1466.87		-2549.86	-6738.22	-0.04	23.17	132.0	-61.80	-26.63	91.45	-1175.77	3856.92
2549.86											
73	41	2549.86	-3864.56	-1.86e-03	0.0	0.0	9.25	26.63	-0.67	1175.77	-5252.89
1466.87		-1466.87	-5255.72	-9.76e-03	23.17	132.0	9.25	26.63	22.50	1175.77	-3864.56
2549.86											
73	51	3790.03	1132.25	6.82e-03	0.0	0.0	-33.73	-33.39	44.85	2388.11	-6301.97
3790.03		780.59	-6301.97	-0.03	23.17	132.0	-33.73	-33.39	68.02	2388.11	1132.25
780.59											
73	54	-780.59	-1139.89	-6.82e-03	0.0	0.0	-18.83	33.39	22.77	-2388.11	-5689.14
3790.03		-3790.03	-5689.14	-0.02	23.17	132.0	-18.83	33.39	45.94	-2388.11	-1139.89
780.59											
73	71	1182.93	1835.11	1.40e-03	0.0	0.0	-38.33	-15.77	50.64	146.74	-6376.00
1182.93		-838.70	-6376.00	-0.03	23.17	132.0	-38.33	-15.77	73.81	146.74	1835.11
838.70											
73	72	704.97	1839.35	-7.22e-04	0.0	0.0	-39.56	-12.35	50.46	-340.80	-6356.34
704.97		-1011.63	-6356.34	-0.03	23.17	132.0	-39.56	-12.35	73.63	-340.80	1839.35
1011.63											
73	73	1011.63	-1846.99	7.22e-04	0.0	0.0	-13.00	12.35	17.15	340.80	-5634.77
704.97		-704.97	-5634.77	-0.02	23.17	132.0	-13.00	12.35	40.32	340.80	-1846.99
1011.63											
73	83	1503.86	545.23	2.93e-03	0.0	0.0	-29.78	-13.85	38.91	1039.65	-6116.16
1503.86		120.39	-6116.16	-0.03	23.17	132.0	-29.78	-13.85	62.08	1039.65	545.23
120.39											
73	86	-120.39	-552.87	-2.93e-03	0.0	0.0	-22.78	13.85	28.70	-1039.65	-5874.95
1503.86		-1503.86	-5874.95	-0.02	23.17	132.0	-22.78	13.85	51.87	-1039.65	-552.87
120.39											
74	2	-70.81	2.907e+04	-5.44e-03	0.0	0.0	-119.56	-0.59	412.88	-3723.60	-2.742e+04
70.81		-149.19	-2.742e+04	-0.16	30.12	132.0	-119.56	-0.59	443.00	-3723.60	2.907e+04
149.19											
74	5	-109.68	7256.93	-8.42e-03	0.0	0.0	-31.11	-0.92	88.21	-5767.92	-6375.04
109.68		-231.10	-6375.04	-0.04	30.12	132.0	-31.11	-0.92	118.33	-5767.92	7256.93
231.10											
74	7	-109.68	5315.97	-8.42e-03	0.0	0.0	-22.85	-0.92	63.89	-5767.92	-4646.89
109.68		-231.10	-4646.89	-0.03	23.17	132.0	-22.85	-0.92	87.06	-5767.92	5315.97
231.10											
74	22	0.0	9281.02	0.0	0.0	0.0	-38.93	0.0	122.92	0.0	-8473.46
0.0		0.0	-8473.46	-0.05	23.17	132.0	-38.93	0.0	146.09	0.0	9281.02
74	23	-12.96	6228.07	-9.95e-04	0.0	0.0	-26.55	-0.11	77.47	-681.44	-5527.14
12.96		-27.30	-5527.14	-0.03	23.17	132.0	-26.55	-0.11	100.64	-681.44	6228.07
27.30											
74	26	-47.20	2.024e+04	-3.63e-03	0.0	0.0	-83.38	-0.40	286.06	-2482.40	-1.905e+04
47.20		-99.46	-1.905e+04	-0.11	23.17	132.0	-83.38	-0.40	309.23	-2482.40	2.024e+04
99.46											
74	27	-73.12	5700.61	-5.62e-03	0.0	0.0	-24.41	-0.61	69.62	-3845.28	-5018.09
73.12		-154.07	-5018.09	-0.03	23.17	132.0	-24.41	-0.61	92.79	-3845.28	5700.61
154.07											
74	35	3071.26	1.151e+04	0.03	0.0	0.0	-76.32	-50.94	113.94	2911.55	-4894.55
3071.26		-5215.16	-4894.55	-0.03	23.17	132.0	-76.32	-50.94	137.11	2911.55	1.151e+04
5215.16											

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74	38	5215.16	1425.60	-0.03	0.0	0.0	21.27	50.94	48.20	-2911.55	-6626.47	-	
3071.26		-3071.26	-6626.47	-0.03	23.17	132.0	21.27	50.94	71.37	-2911.55	1425.60		
5215.16													
74	40	1372.49	1.154e+04	0.01	0.0	0.0	-78.77	-35.09	114.32	340.43	-4867.84		
1372.49		-3766.04	-4867.84	-0.03	23.17	132.0	-78.77	-35.09	137.49	340.43	1.154e+04	-	
3766.04													
74	41	3766.04	1396.04	-0.01	0.0	0.0	23.72	35.09	47.82	-340.43	-6653.18	-	
1372.49		-1372.49	-6653.18	-0.03	23.17	132.0	23.72	35.09	70.99	-340.43	1396.04		
3766.04													
74	67	1229.14	8883.48	9.71e-03	0.0	0.0	-49.09	-20.83	96.86	955.22	-5413.83		
1229.14		-1798.34	-5413.83	-0.03	23.17	132.0	-49.09	-20.83	120.03	955.22	8883.48	-	
1798.34													
74	70	1798.34	4056.29	-9.71e-03	0.0	0.0	-5.97	20.83	65.28	-955.22	-6107.19	-	
1229.14		-1229.14	-6107.19	-0.03	23.17	132.0	-5.97	20.83	88.45	-955.22	4056.29		
1798.34													
74	72	586.60	8887.78	4.78e-03	0.0	0.0	-49.60	-12.97	96.92	-150.43	-5408.70		
586.60		-1218.88	-5408.70	-0.03	23.17	132.0	-49.60	-12.97	120.09	-150.43	8887.78	-	
1218.88													
74	73	1218.88	4052.00	-4.78e-03	0.0	0.0	-5.45	12.97	65.22	150.43	-6112.31	-	
586.60		-586.60	-6112.31	-0.03	23.17	132.0	-5.45	12.97	88.39	150.43	4052.00		
1218.88													
75	2	-41.63	4.920e+04	-3.28e-03	0.0	0.0	-100.31	-0.67	769.31	-6467.62	-3642.51	-	
41.63		-87.51	-3642.51	-0.07	15.52	68.0	-100.31	-0.67	784.83	-6467.62	4.920e+04	-	
87.51													
75	7	-64.49	8603.94	-5.09e-03	0.0	0.0	-19.27	-1.05	127.02	-1.002e+04	-439.28	-	
64.49		-135.55	-439.28	-0.01	11.94	68.0	-19.27	-1.05	138.96	-1.002e+04	8603.94	-	
135.55													
75	22	0.0	1.541e+04	0.0	0.0	0.0	-32.74	0.0	235.15	0.0	-988.97		
0.0		0.0	-988.97	-0.02	11.94	68.0	-32.74	0.0	247.09	0.0	1.541e+04		
0.0													
75	23	-7.62	1.017e+04	-6.01e-04	0.0	0.0	-22.37	-0.12	151.89	-1183.62	-565.73	-	
7.62		-16.01	-565.73	-0.01	11.94	68.0	-22.37	-0.12	163.83	-1183.62	1.017e+04	-	
16.01													
75	26	-27.75	3.421e+04	-2.19e-03	0.0	0.0	-69.97	-0.45	534.00	-4311.75	-2508.24	-	
27.75		-58.34	-2508.24	-0.05	11.94	68.0	-69.97	-0.45	545.94	-4311.75	3.421e+04	-	
58.34													
75	27	-42.99	9263.89	-3.39e-03	0.0	0.0	-20.58	-0.70	137.51	-6678.98	-492.60	-	
42.99		-90.37	-492.60	-0.01	11.94	68.0	-20.58	-0.70	149.45	-6678.98	9263.89	-	
90.37													
75	39	2205.46	1.664e+04	0.01	0.0	0.0	-76.32	-46.47	197.30	459.24	2906.62		
2205.46		-1574.61	2906.62	-8.61e-03	11.94	68.0	-76.32	-46.47	209.23	459.24	1.664e+04	-	
1574.61													
75	40	1774.65	1.639e+04	0.01	0.0	0.0	-80.58	-20.74	193.02	-2252.04	2955.48		
1774.65		-24.48	2955.48	-8.96e-03	11.94	68.0	-80.58	-20.74	204.96	-2252.04	1.639e+04	-	
24.48													
75	41	24.48	4774.28	-0.01	0.0	0.0	34.19	20.74	123.96	2252.04	-4153.98	-	
1774.65		-1774.65	-4153.98	-0.02	11.94	68.0	34.19	20.74	135.89	2252.04	4774.28		
24.48													
75	51	1437.36	1.244e+04	-5.56e-04	0.0	0.0	-37.69	-51.33	170.75	4164.50	444.33		
1437.36		-2951.29	444.33	-0.01	11.94	68.0	-37.69	-51.33	182.69	4164.50	1.244e+04	-	
2951.29													
75	54	2951.29	8726.62	5.56e-04	0.0	0.0	-8.70	51.33	146.23	-4164.50	-1642.83	-	
1437.36		-1437.36	-1642.83	-0.02	11.94	68.0	-8.70	51.33	158.16	-4164.50	8726.62		
2951.29													
75	71	1056.02	1.346e+04	3.65e-03	0.0	0.0	-50.28	-22.22	176.18	526.42	1083.69		
1056.02		-604.24	1083.69	-0.01	11.94	68.0	-50.28	-22.22	188.12	526.42	1.346e+04	-	

604.24 75 872.25	72	872.25	1.342e+04	3.10e-03	0.0	0.0	-51.22	-9.99	175.49	-816.11	1091.36
135.48 75 872.25		135.48	1091.36	-0.01	11.94	68.0	-51.22	-9.99	187.43	-816.11	1.342e+04
135.48 75 872.25	73	-135.48	7751.89	-3.10e-03	0.0	0.0	4.83	9.99	141.49	816.11	-2289.87
135.48 75 634.51		-872.25	-2289.87	-0.02	11.94	68.0	4.83	9.99	153.42	816.11	7751.89
1450.15 75 634.51	83	634.51	1.145e+04	5.70e-04	0.0	0.0	-31.10	-26.56	163.88	2223.42	-95.21
1450.15 75 634.51		-1450.15	-95.21	-0.01	11.94	68.0	-31.10	-26.56	175.82	2223.42	1.145e+04
1450.15 76 6.99	86	1450.15	9716.22	-5.70e-04	0.0	0.0	-15.29	26.56	153.10	-2223.42	-1103.29
1450.15 76 6.99		-634.51	-1103.29	-0.02	11.94	68.0	-15.29	26.56	165.03	-2223.42	9716.22
13.29 76 10.83	2	13.29	4.643e+04	-3.85e-05	0.0	0.0	-100.71	0.29	984.33	-8516.73	2.472e+04
20.59 76 0.0		6.99	2.472e+04	-0.01	5.02	22.0	-100.71	0.29	989.35	-8516.73	4.643e+04
20.59 76 0.0	7	20.59	8216.34	-5.96e-05	0.0	0.0	-19.32	0.44	164.75	-1.319e+04	4549.37
0.0 76 1.28		10.83	4549.37	-1.80e-03	3.86	22.0	-19.32	0.44	168.61	-1.319e+04	8216.34
2.43 76 4.66	22	0.0	1.461e+04	0.0	0.0	0.0	-32.85	0.0	302.58	0.0	7915.63
8.86 76 7.22		0.0	7915.63	-3.22e-03	3.86	22.0	-32.85	0.0	306.44	0.0	1.461e+04
13.73 76 1533.44	23	2.43	9688.24	-7.05e-06	0.0	0.0	-22.44	0.05	196.46	-1558.62	5323.73
504.69 76 2443.13		1.28	5323.73	-2.13e-03	3.86	22.0	-22.44	0.05	200.32	-1558.62	9688.24
2040.72 76 2443.13	26	8.86	3.230e+04	-2.57e-05	0.0	0.0	-70.24	0.19	683.53	-5677.82	1.722e+04
2040.72 76 1533.44		4.66	1.722e+04	-7.12e-03	3.86	22.0	-70.24	0.19	687.40	-5677.82	3.230e+04
504.69 76 2485.41	27	13.73	8837.05	-3.98e-05	0.0	0.0	-20.64	0.30	178.12	-8795.06	4875.92
3759.57 76 2485.41		7.22	4875.92	-1.94e-03	3.86	22.0	-20.64	0.30	181.98	-8795.06	8837.05
3759.57 76 1533.44	39	1533.44	1.591e+04	2.29e-04	0.0	0.0	-95.40	-54.84	236.58	1211.08	1.068e+04
3759.57 76 1533.44		504.69	1.068e+04	3.50e-03	3.86	22.0	-95.40	-54.84	240.44	1211.08	1.591e+04
245.54 76 1119.95	40	2443.13	1.582e+04	-1.05e-03	0.0	0.0	-98.61	-14.34	238.81	-2922.81	1.061e+04
962.91 76 1119.95		2040.72	1.061e+04	3.61e-03	3.86	22.0	-98.61	-14.34	242.67	-2922.81	1.582e+04
962.91 76 1119.95	41	-2040.72	4336.09	1.05e-03	0.0	0.0	52.09	14.34	170.91	2922.81	445.02
962.91 76 1119.95		-2443.13	445.02	-8.05e-03	3.86	22.0	52.09	14.34	174.78	2922.81	4336.09
962.91 76 1119.95	42	-504.69	4242.24	-2.29e-04	0.0	0.0	48.88	54.84	173.14	-1211.08	373.81
962.91 76 1119.95		-1533.44	373.81	-7.93e-03	3.86	22.0	48.88	54.84	177.00	-1211.08	4242.24
962.91 76 1119.95	52	3759.57	1.176e+04	-9.83e-04	0.0	0.0	-46.94	64.20	216.05	6711.16	7009.25
962.91 76 1119.95		2485.41	7009.25	-7.97e-04	3.86	22.0	-46.94	64.20	219.91	6711.16	1.176e+04
962.91 76 1119.95	53	-2485.41	8394.34	9.83e-04	0.0	0.0	0.41	-64.20	193.67	-6711.16	4048.80
962.91 76 1119.95		-3759.57	4048.80	-4.01e-03	3.86	22.0	0.41	-64.20	197.54	-6711.16	8394.34
962.91 76 1119.95	71	721.10	1.287e+04	8.09e-05	0.0	0.0	-58.81	-22.72	219.97	679.89	7982.50
962.91 76 1119.95		245.54	7982.50	5.40e-04	3.86	22.0	-58.81	-22.72	223.83	679.89	1.287e+04
962.91 76 1119.95	72	1119.95	1.285e+04	-3.45e-04	0.0	0.0	-59.50	-6.29	220.46	-1130.07	7969.62
962.91 76 1119.95		962.91	7969.62	5.60e-04	3.86	22.0	-59.50	-6.29	224.33	-1130.07	1.285e+04
962.91 76 1119.95	73	-962.91	7307.08	3.45e-04	0.0	0.0	12.97	6.29	189.26	1130.07	3088.43

LUMINORA LA FEUDALE SRL				green & green WE ENGINEERING				CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture				PAGE 227 di/of 308				
962.91		-1119.95	3088.43	-4.99e-03	3.86	22.0	12.97	6.29	193.12	1130.07	7307.08	-				
76	74	-245.54	7291.22	-8.09e-05	0.0	0.0	12.29	22.72	189.75	-679.89	3075.56	-				
721.10		-721.10	3075.56	-4.97e-03	3.86	22.0	12.29	22.72	193.61	-679.89	7291.22	-				
245.54																
76	84	1738.85	1.090e+04	-3.12e-04	0.0	0.0	-34.28	28.58	209.70	3094.56	6252.37					
1150.27		1150.27	6252.37	-1.45e-03	3.86	22.0	-34.28	28.58	213.56	3094.56	1.090e+04					
1738.85																
76	85	-1150.27	9252.19	3.12e-04	0.0	0.0	-12.24	-28.58	200.03	-3094.56	4805.69	-				
1150.27		-1738.85	4805.69	-3.05e-03	3.86	22.0	-12.24	-28.58	203.89	-3094.56	9252.19	-				
1738.85																
77	2	49.00	4.888e+04	-3.95e-03	0.0	0.0	-114.17	0.19	795.38	-6823.53	-868.67					
37.06		37.06	-868.67	-0.06	14.15	62.0	-114.17	0.19	809.52	-6823.53	4.888e+04					
49.00																
77	3	49.00	9775.49	-3.95e-03	0.0	0.0	-24.62	0.19	152.00	-6823.53	14.10					
37.06		37.06	14.10	-0.01	10.88	62.0	-24.62	0.19	162.88	-6823.53	9775.49					
49.00																
77	6	75.90	2.967e+04	-6.12e-03	0.0	0.0	-70.53	0.30	477.86	-1.057e+04	-397.53					
57.41		57.41	-397.53	-0.04	14.15	62.0	-70.53	0.30	492.00	-1.057e+04	2.967e+04					
75.90																
77	7	75.90	8538.29	-6.12e-03	0.0	0.0	-21.81	0.30	131.56	-1.057e+04	44.43					
57.41		57.41	44.43	-0.01	10.88	62.0	-21.81	0.30	142.44	-1.057e+04	8538.29					
75.90																
77	21	0.0	1.051e+04	0.0	0.0	0.0	-26.28	0.0	164.08	0.0	-3.82					
0.0		0.0	-3.82	-0.01	10.88	62.0	-26.28	0.0	174.96	0.0	1.051e+04					
0.0																
77	22	0.0	1.530e+04	0.0	0.0	0.0	-37.17	0.0	243.30	0.0	-121.37					
0.0		0.0	-121.37	-0.02	10.88	62.0	-37.17	0.0	254.18	0.0	1.530e+04					
0.0																
77	23	8.97	1.009e+04	-7.23e-04	0.0	0.0	-25.34	0.04	157.26	-1248.75	6.29					
6.78		6.78	6.29	-0.01	10.88	62.0	-25.34	0.04	168.14	-1248.75	1.009e+04					
8.97																
77	25	32.67	1.002e+04	-2.63e-03	0.0	0.0	-25.17	0.13	156.03	-4549.02	8.12					
24.71		24.71	8.12	-0.01	10.88	62.0	-25.17	0.13	166.91	-4549.02	1.002e+04					
32.67																
77	26	32.67	3.399e+04	-2.63e-03	0.0	0.0	-79.62	0.13	552.13	-4549.02	-579.62					
24.71		24.71	-579.62	-0.04	10.88	62.0	-79.62	0.13	563.01	-4549.02	3.399e+04					
32.67																
77	27	50.60	9194.26	-4.08e-03	0.0	0.0	-23.30	0.20	142.40	-7046.52	28.35					
38.27		38.27	28.35	-0.01	10.88	62.0	-23.30	0.20	153.28	-7046.52	9194.26					
50.60																
77	28	50.60	2.118e+04	-4.08e-03	0.0	0.0	-50.52	0.20	340.45	-7046.52	-265.53					
38.27		38.27	-265.53	-0.03	10.88	62.0	-50.52	0.20	351.33	-7046.52	2.118e+04					
50.60																
77	39	2587.75	1.608e+04	-6.28e-04	0.0	0.0	-89.22	-45.96	197.37	181.68	3553.99					
2587.75		-283.23	3553.99	-6.31e-03	10.88	62.0	-89.22	-45.96	208.25	181.68	1.608e+04	-				
283.23																
77	40	1824.04	1.596e+04	-3.90e-03	0.0	0.0	-96.61	-14.61	195.91	-2767.86	3585.98					
1824.04		1218.99	3585.98	-6.16e-03	10.88	62.0	-96.61	-14.61	206.80	-2767.86	1.596e+04					
1218.99																
77	41	-1218.99	5049.73	3.90e-03	0.0	0.0	44.05	14.61	132.24	2767.86	-3593.62	-				
1824.04		-1824.04	-3593.62	-0.02	10.88	62.0	44.05	14.61	143.12	2767.86	5049.73	-				
1218.99																
77	52	4429.76	1.210e+04	-6.80e-03	0.0	0.0	-48.76	62.28	172.81	-7378.75	1048.35	-				
908.71		-908.71	1048.35	-0.01	10.88	62.0	-48.76	62.28	183.69	-7378.75	1.210e+04					
4429.76																
77	53	908.71	8913.31	6.80e-03	0.0	0.0	-3.80	-62.28	155.34	7378.75	-1055.99					

908.71		-4429.76	-1055.99	-0.02	10.88	62.0	-3.80	-62.28	166.22	7378.75	8913.31	-
4429.76	71	1080.25	1.317e+04	7.08e-04	0.0	0.0	-58.04	-20.19	179.64	441.04	1704.51	-
77		-218.39	1704.51	-9.28e-03	10.88	62.0	-58.04	-20.19	190.52	441.04	1.317e+04	-
1080.25	72	866.70	1.315e+04	-8.66e-04	0.0	0.0	-59.36	-7.89	179.40	-864.51	1709.61	-
218.39		464.19	1709.61	-9.25e-03	10.88	62.0	-59.36	-7.89	190.28	-864.51	1.315e+04	-
77	73	-464.19	7864.22	8.66e-04	0.0	0.0	6.80	7.89	148.75	864.51	-1717.25	-
866.70		-866.70	-1717.25	-0.02	10.88	62.0	6.80	7.89	159.63	864.51	7864.22	-
464.19	84	1940.41	1.129e+04	-2.37e-03	0.0	0.0	-36.33	26.54	168.55	-3046.17	505.86	-
77		-235.00	505.86	-0.01	10.88	62.0	-36.33	26.54	179.43	-3046.17	1.129e+04	-
235.00	85	235.00	9719.66	2.37e-03	0.0	0.0	-16.23	-26.54	159.60	3046.17	-513.50	-
1940.41		-1940.41	-513.50	-0.02	10.88	62.0	-16.23	-26.54	170.48	3046.17	9719.66	-
77	2	-149.19	4.532e+04	-1.58e-03	0.0	0.0	-119.56	-0.59	1014.09	-8816.25	2.907e+04	-
149.19		-158.69	2.907e+04	-4.58e-03	3.65	16.0	-119.56	-0.59	1017.74	-8816.25	4.532e+04	-
158.69	5	-231.10	1.102e+04	-2.45e-03	0.0	0.0	-31.11	-0.92	233.43	-1.366e+04	7256.93	-
78		-245.82	7256.93	-1.09e-03	3.65	16.0	-31.11	-0.92	237.09	-1.366e+04	1.102e+04	-
231.10	7	-231.10	8058.96	-2.45e-03	0.0	0.0	-22.85	-0.92	170.03	-1.366e+04	5315.97	-
245.82		-245.82	5315.97	-7.97e-04	2.81	16.0	-22.85	-0.92	172.84	-1.366e+04	8058.96	-
78	22	0.0	1.429e+04	0.0	0.0	0.0	-38.93	0.0	311.96	0.0	9281.02	-
0.0		0.0	9281.02	-1.43e-03	2.81	16.0	-38.93	0.0	314.77	0.0	1.429e+04	-
78	23	-27.30	9493.45	-2.90e-04	0.0	0.0	-26.55	-0.11	202.68	-1613.43	6228.07	-
27.30		-29.04	6228.07	-9.43e-04	2.81	16.0	-26.55	-0.11	205.49	-1613.43	9493.45	-
29.04	26	-99.46	3.153e+04	-1.06e-03	0.0	0.0	-83.38	-0.40	704.24	-5877.50	2.024e+04	-
78		-105.80	2.024e+04	-3.18e-03	2.81	16.0	-83.38	-0.40	707.05	-5877.50	3.153e+04	-
99.46	27	-154.07	8663.89	-1.64e-03	0.0	0.0	-24.41	-0.61	183.80	-9104.37	5700.61	-
105.80		-163.88	5700.61	-8.59e-04	2.81	16.0	-24.41	-0.61	186.61	-9104.37	8663.89	-
78	40	2880.42	1.513e+04	4.93e-03	0.0	0.0	-121.51	-34.81	247.76	180.76	1.124e+04	-
2880.42		2427.74	1.124e+04	3.33e-03	2.81	16.0	-121.51	-34.81	250.57	180.76	1.513e+04	-
2427.74	41	-2427.74	4620.75	-4.93e-03	0.0	0.0	66.46	34.81	174.91	-180.76	1702.73	-
78		-2880.42	1702.73	-5.29e-03	2.81	16.0	66.46	34.81	177.72	-180.76	4620.75	-
2880.42	52	4441.71	1.148e+04	-1.42e-03	0.0	0.0	-56.45	54.49	223.33	-7423.26	7917.81	-
2427.74		3841.05	7917.81	3.28e-04	2.81	16.0	-56.45	54.49	226.13	-7423.26	1.148e+04	-

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78	84	2051.94	1.064e+04	-3.33e-04	0.0	0.0	-40.37	30.38	216.18	-3502.22	7157.14		
1630.50		1630.50	7157.14	-4.99e-04	2.81	16.0	-40.37	30.38	218.99	-3502.22	1.064e+04		
2051.94													
78	85	-1630.50	9111.54	3.33e-04	0.0	0.0	-14.69	-30.38	206.50	3502.22	5782.64	-	
1630.50		-2051.94	5782.64	-1.59e-03	2.81	16.0	-14.69	-30.38	209.30	3502.22	9111.54	-	
2051.94													
79	2	2.020e+04	0.0	0.27	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
2.020e+04		0.0	0.0	3.18e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0													
79	3	1523.05	0.0	-0.09	24.90	0.0	0.0	-24.90	0.0	0.0	0.0		
1523.05		0.0	0.0	3.18e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
79	7	0.0	0.0	-0.20	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
324.29		-373.37	0.0	4.92e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0													
79	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
79	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0													
79	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
3614.62		0.0	0.0	5.81e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
79	25	2425.50	0.0	-0.04	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
2425.50		0.0	0.0	2.12e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
79	26	1.403e+04	0.0	0.19	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
1.403e+04		0.0	0.0	2.12e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0													
79	27	1193.94	0.0	-0.10	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
1193.94		0.0	0.0	3.28e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		
0.0													
79	43	4123.19	0.0	0.11	53.55	0.0	2.42	-52.85	24.65	-123.25	-3894.72		
4123.19		-12.10	-3894.72	-0.35	0.0	158.0	2.42	0.70	24.65	-123.25	0.0	-	
12.10													
79	46	4337.60	3894.72	0.05	53.55	0.0	-2.42	-54.25	-24.65	123.25	3894.72		
4337.60		12.10	0.0	0.35	0.0	158.0	-2.42	-0.70	-24.65	123.25	0.0		
12.10													
79	64	6636.89	0.0	-0.06	53.55	0.0	-10.44	-68.78	5.33	-26.66	-842.57		
6636.89		52.19	-842.57	-0.06	0.0	158.0	-10.44	-15.23	5.33	-26.66	0.0		
52.19													
79	65	1823.90	842.57	0.23	53.55	0.0	10.44	-38.32	-5.33	26.66	842.57		
1823.90		-376.37	0.0	0.06	0.0	158.0	10.44	15.23	-5.33	26.66	0.0	-	
52.19													
79	75	4078.27	0.0	0.10	53.55	0.0	0.93	-52.58	12.06	-60.32	-1906.20		
4078.27		-4.63	-1906.20	-0.17	0.0	158.0	0.93	0.97	12.06	-60.32	0.0	-	
4.63													
79	78	4382.52	1906.20	0.06	53.55	0.0	-0.93	-54.52	-12.06	60.32	1906.20		
4382.52		4.63	0.0	0.17	0.0	158.0	-0.93	-0.97	-12.06	60.32	0.0		
4.63													
79	88	5348.59	0.0	-0.01	53.55	0.0	-3.50	-60.65	2.88	-14.38	-454.27		
5348.59		17.52	-454.27	-0.04	0.0	158.0	-3.50	-7.10	2.88	-14.38	0.0		
17.52													
79	89	3112.20	454.27	0.15	53.55	0.0	3.50	-46.45	-2.88	14.38	454.27		
3112.20		-89.01	0.0	0.04	0.0	158.0	3.50	7.10	-2.88	14.38	0.0	-	

17.52											
80	1	7884.82	0.0	-0.28	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	3.18e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
80	2	2.530e+04	0.0	-0.62	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	3.18e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
80	7	7564.34	0.0	-0.35	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05		2.29e-05	0.0	4.92e-04	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
80	11	7257.28	0.0	-0.28	80.69	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	3.55e-04	0.0	158.0	0.0	80.69	0.0	0.0	0.0
7257.28											
80	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
80	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
80	23	4546.61	0.0	-0.11	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06		3.05e-06	0.0	5.81e-05	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
80	24	4444.25	0.0	-0.09	56.03	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	1.25e-05	0.0	158.0	0.0	56.03	0.0	0.0	0.0
4444.25											
80	25	5820.60	0.0	-0.20	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	2.12e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
80	26	1.743e+04	0.0	-0.43	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	2.12e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
80	27	6453.02	0.0	-0.26	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	3.28e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
80	29	6248.32	0.0	-0.22	71.64	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	2.37e-04	0.0	158.0	0.0	71.64	0.0	0.0	0.0
6248.32											
80	40	4118.02	0.0	-0.11	53.55	0.0	2.53	-0.72	-23.17	123.82	0.0
17.75		-17.75	-3912.78	0.35	0.0	158.0	2.53	52.83	-23.17	123.82	-3912.78
4118.02											
80	41	4342.77	3912.78	-0.05	53.55	0.0	-2.53	0.72	23.17	-123.82	0.0
17.75		17.75	0.0	-0.35	0.0	158.0	-2.53	54.27	23.17	-123.82	3912.78
4342.77											
80	59	6642.70	0.0	0.06	53.55	0.0	-10.29	15.27	-9.85	22.68	0.0
49.91		49.91	-716.64	0.06	0.0	158.0	-10.29	68.82	-9.85	22.68	-716.64
6642.70											
80	62	1818.09	716.64	-0.23	53.55	0.0	10.29	-15.27	9.85	-22.68	0.0
49.91		-376.11	0.0	-0.06	0.0	158.0	10.29	38.28	9.85	-22.68	716.64
1818.09											
80	72	4078.91	0.0	-0.10	53.55	0.0	0.90	-0.97	-11.65	60.32	0.0
5.67		-5.67	-1906.25	0.17	0.0	158.0	0.90	52.58	-11.65	60.32	-1906.25
4078.91											
80	73	4381.88	1906.25	-0.07	53.55	0.0	-0.90	0.97	11.65	-60.32	0.0
5.67		5.67	0.0	-0.17	0.0	158.0	-0.90	54.51	11.65	-60.32	1906.25
4381.88											
80	83	5348.47	0.0	-0.03	53.55	0.0	-3.49	7.10	-2.89	14.44	0.0
17.11											

5348.47		17.11	-456.34	0.04	0.0	158.0	-3.49	60.65	-2.89	14.44	-456.34
80	86	3112.32	456.34	-0.15	53.55	0.0	3.49	-7.10	2.89	-14.44	0.0
17.11		-88.63	0.0	-0.04	0.0	158.0	3.49	46.45	2.89	-14.44	456.34
3112.32		37.52	-828.85	2.41e-03	0.0	0.0	-118.16	-0.18	-224.64	1731.43	-828.85
81	2	13.43	-2.849e+04	0.11	30.12	132.0	-118.16	-0.18	-194.52	1731.43	-2.849e+04
37.52		37.52	22.20	2.41e-03	0.0	0.0	-25.43	-0.18	-53.93	1731.43	22.20
13.43	3	13.43	-5567.80	0.02	23.17	132.0	-25.43	-0.18	-30.76	1731.43	-5567.80
81		58.13	53.00	3.74e-03	0.0	0.0	-30.67	-0.28	-65.76	2682.02	53.00
37.52	5	20.80	-6640.00	0.03	30.12	132.0	-30.67	-0.28	-35.64	2682.02	-6640.00
13.43		58.13	51.54	3.74e-03	0.0	0.0	-22.52	-0.28	-48.65	2682.02	51.54
81	7	20.80	-4840.85	0.02	23.17	132.0	-22.52	-0.28	-25.48	2682.02	-4840.85
58.13		0.0	-108.79	0.0	0.0	0.0	-38.43	0.0	-77.53	0.0	-108.79
20.80	22	0.0	-8814.10	0.04	23.17	132.0	-38.43	0.0	-54.36	0.0	-8814.10
81		6.87	14.66	4.41e-04	0.0	0.0	-26.18	-0.03	-55.29	316.86	14.66
0.0	23	2.46	-5754.84	0.02	23.17	132.0	-26.18	-0.03	-32.12	316.86	-5754.84
81		25.02	16.43	1.61e-03	0.0	0.0	-26.00	-0.12	-54.97	1154.29	16.43
6.87	25	8.95	-5710.92	0.02	23.17	132.0	-26.00	-0.12	-31.80	1154.29	-5710.92
2.46		25.02	-551.91	1.61e-03	0.0	0.0	-82.40	-0.12	-157.37	1154.29	-551.91
81	26	8.95	-1.980e+04	0.08	23.17	132.0	-82.40	-0.12	-134.20	1154.29	-1.980e+04
25.02		38.75	35.99	2.49e-03	0.0	0.0	-24.06	-0.19	-51.45	1788.02	35.99
8.95	27	13.87	-5226.29	0.02	23.17	132.0	-24.06	-0.19	-28.28	1788.02	-5226.29
81		1833.63	-3859.17	5.24e-03	0.0	0.0	9.38	-37.88	-22.39	174.80	-3859.17
38.75	40	-2978.64	-5269.34	0.02	23.17	132.0	9.38	-37.88	0.78	174.80	-5267.78
13.87		2978.64	3868.93	-5.24e-03	0.0	0.0	-63.68	37.88	-91.72	-174.80	3868.93
81	41	-1833.63	-6726.54	0.04	23.17	132.0	-63.68	37.88	-68.55	-174.80	-6726.54
1833.63		1131.21	3891.13	1.50e-03	0.0	0.0	-55.52	22.97	-92.94	1374.83	3891.13
2978.64	42	-2700.96	-6890.71	0.04	23.17	132.0	-55.52	22.97	-69.77	1374.83	-6890.71
81		-765.35	-1120.67	9.08e-03	0.0	0.0	-3.82	-33.98	-48.50	2402.70	-1120.67
1833.63	60	-3695.52	-6027.34	0.02	23.17	132.0	-3.82	-33.98	-25.33	2402.70	-6027.34
2978.64		3695.52	1130.42	-9.08e-03	0.0	0.0	-50.48	33.98	-65.61	-2402.70	1130.42
81	61	765.35	-5966.98	0.03	23.17	132.0	-50.48	33.98	-42.44	-2402.70	-5966.98
2700.96		810.71	-1847.01	1.58e-03	0.0	0.0	-13.46	-17.05	-40.28	224.53	-1847.01
1131.21	72	-1313.62	-5636.21	0.02	23.17	132.0	-13.46	-17.05	-17.11	224.53	-5636.21
81		1313.62	1856.77	-1.58e-03	0.0	0.0	-40.84	17.05	-73.83	-224.53	1856.77
765.35	73	-810.71	-6358.11	0.03	23.17	132.0	-40.84	17.05	-50.66	-224.53	-6358.11
3695.52		581.66	1860.80	7.97e-04	0.0	0.0	-39.55	11.19	-74.01	417.36	1860.80
81	74	-1047.35	-6383.45	0.03	23.17	132.0	-39.55	11.19	-50.84	417.36	-6383.45
765.35		-115.69	-544.59	3.70e-03	0.0	0.0	-21.08	-14.01	-52.31	1040.90	-544.59
3695.52	92										
81											
810.71											
1313.62											
81											
1047.35											
581.66											
81											

115.69			-1504.22	-5927.31	0.02	23.17	132.0	-21.08	-14.01	-29.14	1040.90	-5927.31	-
1504.22	81	93	1504.22	554.34	-3.70e-03	0.0	0.0	-33.22	14.01	-61.80	-1040.90	554.34	
115.69			115.69	-6067.01	0.03	23.17	132.0	-33.22	14.01	-38.63	-1040.90	-6067.01	
1504.22	82	2	-70.88	2.912e+04	5.44e-03	0.0	0.0	-122.11	0.59	-443.34	3723.56	2.912e+04	-
149.21			-149.21	-2.741e+04	0.16	30.12	132.0	-122.11	0.59	-413.22	3723.56	-2.741e+04	-
70.88	82	3	-70.88	6052.21	5.44e-03	0.0	0.0	-26.31	0.59	-97.93	3723.56	6052.21	-
149.21			-149.21	-5345.27	0.03	23.17	132.0	-26.31	0.59	-74.76	3723.56	-5345.27	-
70.88	82	5	-109.80	7269.87	8.42e-03	0.0	0.0	-31.73	0.92	-118.41	5767.86	7269.87	-
231.13			-231.13	-6372.97	0.04	30.12	132.0	-31.73	0.92	-88.29	5767.86	-6372.97	-
109.80	82	7	-109.80	5325.43	8.42e-03	0.0	0.0	-23.30	0.92	-87.12	5767.86	5325.43	-
231.13			-231.13	-4645.37	0.03	23.17	132.0	-23.30	0.92	-63.95	5767.86	-4645.37	-
109.80	82	21	0.0	6481.47	0.0	0.0	0.0	-28.08	0.0	-104.31	0.0	6481.47	
0.0			0.0	-5758.65	0.03	23.17	132.0	-28.08	0.0	-81.14	0.0	-5758.65	
0.0	82	22	0.0	9297.77	0.0	0.0	0.0	-39.73	0.0	-146.19	0.0	9297.77	
0.0			0.0	-8470.78	0.05	23.17	132.0	-39.73	0.0	-123.03	0.0	-8470.78	
0.0	82	23	-12.97	6239.21	9.95e-04	0.0	0.0	-27.08	0.11	-100.71	681.44	6239.21	-
27.31			-27.31	-5525.35	0.03	23.17	132.0	-27.08	0.11	-77.54	681.44	-5525.35	-
12.97	82	25	-47.25	6195.30	3.63e-03	0.0	0.0	-26.90	0.40	-100.06	2482.37	6195.30	-
99.47			-99.47	-5483.07	0.03	23.17	132.0	-26.90	0.40	-76.89	2482.37	-5483.07	-
47.25	82	26	-47.25	2.028e+04	3.63e-03	0.0	0.0	-85.15	0.40	-309.47	2482.37	2.028e+04	-
99.47			-99.47	-1.904e+04	0.11	23.17	132.0	-85.15	0.40	-286.30	2482.37	-1.904e+04	-
47.25	82	27	-73.20	5710.78	5.62e-03	0.0	0.0	-24.90	0.61	-92.85	3845.24	5710.78	-
154.09			-154.09	-5016.47	0.03	23.17	132.0	-24.90	0.61	-69.68	3845.24	-5016.47	-
73.20	82	40	5226.52	1383.52	0.03	0.0	0.0	25.74	-51.06	-70.71	2881.13	1383.52	
5226.52			-3079.84	-6687.05	0.03	23.17	132.0	25.74	-51.06	-47.54	2881.13	-6687.05	-
3079.84	82	41	3079.84	1.158e+04	-0.03	0.0	0.0	-81.91	51.06	-137.91	-2881.13	1.158e+04	-
5226.52			-5226.52	-4830.26	0.03	23.17	132.0	-81.91	51.06	-114.74	-2881.13	-4830.26	
3079.84	82	72	1804.50	4049.03	9.76e-03	0.0	0.0	-5.49	-20.89	-88.34	951.92	4049.03	
1804.50			-1230.41	-6116.72	0.03	23.17	132.0	-5.49	-20.89	-65.17	951.92	-6116.72	-
1230.41	82	73	1230.41	8913.92	-9.76e-03	0.0	0.0	-50.68	20.89	-120.29	-951.92	8913.92	-
1804.50			-1804.50	-5400.59	0.03	23.17	132.0	-50.68	20.89	-97.12	-951.92	-5400.59	
1230.41	83	2	2.020e+04	0.0	0.15	261.37	0.0	0.0	-261.37	0.0	0.0	0.0	
2.020e+04			0.0	0.0	2.32e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0	
0.0	83	7	0.0	0.0	-0.39	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-
324.29			-373.37	0.0	3.59e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0	
0.0	83	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0	
4230.39			0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0	
0.0													

								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture PAGE 233 di/of 308			
83 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
83 3614.62	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
0.0		0.0	0.0	4.24e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
83 2425.50	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
0.0		0.0	0.0	1.54e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
83 1.403e+04	26	1.403e+04	0.0	0.11	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
0.0		0.0	0.0	1.54e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
83 1193.94	27	1193.94	0.0	-0.23	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
0.0		0.0	0.0	2.39e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
83 2715.57	43	2715.57	0.0	0.11	53.55	0.0	0.55	-53.64	26.48	-132.42	-4184.33
2.74		-137.53	-4184.33	-0.36	0.0	158.0	0.55	-0.09	26.48	-132.42	0.0 -
83 5745.22	46	5745.22	4184.33	0.05	53.55	0.0	-0.55	-53.46	-26.48	132.42	4184.33
2.74		2.74	0.0	0.36	0.0	158.0	-0.55	0.09	-26.48	132.42	0.0
83 6560.07	52	6560.07	77.56	-0.18	53.55	0.0	-8.62	-36.02	-0.49	2.45	77.56
43.08		43.08	0.0	0.02	0.0	158.0	-8.62	17.52	-0.49	2.45	0.0
83 1900.72	53	1900.72	0.0	0.34	53.55	0.0	8.62	-71.07	0.49	-2.45	-77.56
43.08		-350.33	-77.56	-0.02	0.0	158.0	8.62	-17.52	0.49	-2.45	0.0 -
83 1402.53	63	1402.53	0.0	0.31	53.55	0.0	6.63	-35.68	10.76	-53.79	-1699.71
33.17		-493.39	-1699.71	-0.16	0.0	158.0	6.63	17.87	10.76	-53.79	0.0 -
83 7058.25	66	7058.25	1699.71	-0.15	53.55	0.0	-6.63	-71.42	-10.76	53.79	1699.71
33.17		33.17	0.0	0.16	0.0	158.0	-6.63	-17.87	-10.76	53.79	0.0
83 3644.30	79	3644.30	0.0	0.11	53.55	0.0	0.61	-49.84	12.87	-64.33	-2032.85
3.06		-22.97	-2032.85	-0.18	0.0	158.0	0.61	3.71	12.87	-64.33	0.0 -
83 4816.49	82	4816.49	2032.85	0.05	53.55	0.0	-0.61	-57.26	-12.87	64.33	2032.85
3.06		3.06	0.0	0.18	0.0	158.0	-0.61	-3.71	-12.87	64.33	0.0
83 5375.85	88	5375.85	0.0	-0.04	53.55	0.0	-3.83	-45.50	2.52	-12.62	-398.84
19.14		19.14	-398.84	-0.03	0.0	158.0	-3.83	8.05	2.52	-12.62	0.0
83 3084.94	89	3084.94	398.84	0.21	53.55	0.0	3.83	-61.60	-2.52	12.62	398.84
19.14		-93.83	0.0	0.03	0.0	158.0	3.83	-8.05	-2.52	12.62	0.0 -
83 2919.96	95	2919.96	0.0	0.21	53.55	0.0	3.53	-45.26	5.01	-25.06	-791.89
17.65		-113.15	-791.89	-0.08	0.0	158.0	3.53	8.29	5.01	-25.06	0.0 -
83 5540.83	98	5540.83	791.89	-0.04	53.55	0.0	-3.53	-61.84	-5.01	25.06	791.89
17.65		17.65	0.0	0.08	0.0	158.0	-3.53	-8.29	-5.01	25.06	0.0
84 1.37e-05	1	7884.82	0.0	-0.40	89.31	0.0	0.0	0.0	0.0	0.0	0.0
7884.82		1.37e-05	0.0	2.32e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
84 1.37e-05	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	2.32e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0

2.530e+04 84 1.37e-05	4	2.403e+04	0.0	-0.72	293.65	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	2.32e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04 84 2.29e-05	7	7564.34	0.0	-0.54	78.93	0.0	0.0	0.0	0.0	0.0	0.0
		2.29e-05	0.0	3.59e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34 84 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39 84 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05 84 9.16e-06	25	5820.60	0.0	-0.28	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.54e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60 84 9.16e-06	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.54e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 84 1.53e-05	27	6453.02	0.0	-0.39	70.47	0.0	0.0	0.0	0.0	0.0	0.0
		1.53e-05	0.0	2.39e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02 84 21.42	36	4217.91	0.0	-0.11	53.55	0.0	0.55	-9.57	-26.48	121.62	0.0
		-21.42	-4184.08	0.36	0.0	158.0	0.55	43.98	-26.48	121.62	-4184.08
4217.91 84 21.42	37	4242.88	4184.08	-0.05	53.55	0.0	-0.55	9.57	26.48	-121.62	0.0
		21.42	0.0	-0.36	0.0	158.0	-0.55	63.12	26.48	-121.62	4184.08
4242.88 84 43.07	55	6549.86	76.73	0.18	53.55	0.0	-8.61	17.46	0.49	33.52	0.0
		43.07	0.0	-0.02	0.0	158.0	-8.61	71.01	0.49	33.52	76.73
6549.86 84 43.07	58	1910.93	0.0	-0.34	53.55	0.0	8.61	-17.46	-0.49	-33.52	0.0
		-347.76	-76.72	0.02	0.0	158.0	8.61	36.08	-0.49	-33.52	-76.72
1910.93 84 32.81	59	7450.00	0.0	0.19	53.55	0.0	-7.68	-20.38	-10.75	53.75	0.0
		32.81	-709.71	0.04	0.0	158.0	-7.68	33.17	-10.75	53.75	-709.71
7450.00 84 32.81	62	1010.79	709.71	-0.36	53.55	0.0	7.68	20.38	10.75	-53.75	0.0
		-632.96	0.0	-0.04	0.0	158.0	7.68	73.93	10.75	-53.75	709.71
1010.79 84 7.96	72	4062.23	0.0	-0.11	53.55	0.0	0.61	1.06	-12.11	60.53	0.0
		-7.96	-2032.87	0.18	0.0	158.0	0.61	54.61	-12.11	60.53	-2032.87
4062.23 84 7.96	73	4398.56	2032.87	-0.05	53.55	0.0	-0.61	-1.06	12.11	-60.53	0.0
		7.96	0.0	-0.18	0.0	158.0	-0.61	52.49	12.11	-60.53	2032.87
4398.56 84 17.67	83	5502.11	0.0	0.04	53.55	0.0	-3.83	7.24	-2.53	24.83	0.0
		17.67	-399.02	0.03	0.0	158.0	-3.83	60.79	-2.53	24.83	-399.02
5502.11 84 17.67	86	2958.67	399.02	-0.21	53.55	0.0	3.83	-7.24	2.53	-24.83	0.0
		-108.33	0.0	-0.03	0.0	158.0	3.83	46.31	2.53	-24.83	399.02
2958.67 84 17.62	91	5561.40	0.0	0.05	53.55	0.0	-3.82	-8.42	-5.01	25.06	0.0
		17.62	-391.74	0.03	0.0	158.0	-3.82	45.13	-5.01	25.06	-391.74
5561.40 84 17.62	94	2899.39	391.74	-0.21	53.55	0.0	3.82	8.42	5.01	-25.06	0.0

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2899.39		-115.70	0.0	-0.03	0.0	158.0	3.82	61.97	5.01	-25.06	391.74
85	1	2792.17	0.0	-0.15	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	2.68e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
85	2	2.020e+04	0.0	0.19	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	2.68e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
85	4	1.894e+04	0.0	0.17	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04		0.0	0.0	2.68e-03	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
85	7	0.0	0.0	-0.32	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	4.15e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
85	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
85	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
85	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	1.78e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
85	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	1.78e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
85	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	2.76e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
85	48	3664.52	0.0	0.06	53.55	0.0	-4.32	-43.07	31.36	-156.80	-5540.53
3664.52		1.39	-5540.53	-0.51	0.0	158.0	-4.32	10.48	31.36	-156.80	0.0
21.58											
85	49	4796.27	5540.53	0.10	53.55	0.0	4.32	-64.03	-31.36	156.80	5540.53
4796.27		-21.58	0.0	0.51	0.0	158.0	4.32	-10.48	-31.36	156.80	0.0 -
21.58											
85	51	1929.57	355.59	0.30	53.55	0.0	10.33	-43.07	-2.25	-41.98	355.59
1929.57		-353.04	0.0	0.07	0.0	158.0	10.33	10.48	-2.25	-41.98	0.0 -
56.31											
85	52	5891.85	0.0	-0.11	53.55	0.0	-11.26	-68.07	8.40	11.25	-1326.63
5891.85		51.66	-1326.63	-0.13	0.0	158.0	-11.26	-14.52	8.40	11.25	0.0
51.66											
85	53	2568.94	1326.63	0.28	53.55	0.0	11.26	-39.02	-8.40	-11.25	1326.63
2568.94		-204.77	0.0	0.13	0.0	158.0	11.26	14.52	-8.40	-11.25	0.0 -
51.66											
85	58	6544.90	733.20	-0.14	53.55	0.0	-10.33	-68.16	-4.64	76.44	733.20
6544.90		51.67	0.0	0.04	0.0	158.0	-10.33	-14.61	-4.64	76.44	0.0
51.67											
85	80	4201.00	0.0	0.06	53.55	0.0	-1.57	-49.87	13.53	-67.65	-2323.08
4201.00		7.83	-2323.08	-0.20	0.0	158.0	-1.57	3.68	13.53	-67.65	0.0
7.83											
85	81	4259.79	2323.08	0.11	53.55	0.0	1.57	-57.23	-13.53	67.65	2323.08
4259.79		-7.83	0.0	0.20	0.0	158.0	1.57	-3.68	-13.53	67.65	0.0 -
7.83											
85	84	5043.35	0.0	-0.02	53.55	0.0	-4.15	-59.85	3.27	0.60	-516.11
5043.35		19.56	-516.11	-0.05	0.0	158.0	-4.15	-6.30	3.27	0.60	0.0
19.56											
85	85	3417.44	516.11	0.18	53.55	0.0	4.15	-47.24	-3.27	-0.60	516.11

3417.44											
		-52.63	0.0	0.05	0.0	158.0	4.15	6.30	-3.27	-0.60	0.0
19.56											
85	91	3218.46	60.30	0.19	53.55	0.0	3.83	-59.95	3.53	-17.64	60.30
3218.46											
		-78.19	0.0	0.02	0.0	158.0	3.83	-6.40	3.53	-17.64	0.0
20.34											
85	94	5242.33	0.0	-0.03	53.55	0.0	-3.83	-47.14	-3.53	17.64	-60.30
5242.33											
		20.34	-60.30	-0.02	0.0	158.0	-3.83	6.40	-3.53	17.64	0.0
20.34											
86	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.68e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
86	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.68e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
86	4	2.403e+04	0.0	-0.68	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.68e-03	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04											
86	7	7564.34	0.0	-0.47	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05											
		2.29e-05	0.0	4.15e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
86	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
86	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
86	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.78e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
86	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.78e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
86	27	6453.02	0.0	-0.34	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05											
		1.53e-05	0.0	2.76e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
86	39	3667.50	0.0	-0.06	53.55	0.0	-4.30	3.55	-35.07	156.80	0.0
21.51											
		1.51	-5540.51	0.51	0.0	158.0	-4.30	57.10	-35.07	156.80	-5540.51
3667.50											
86	42	4793.29	5540.51	-0.10	53.55	0.0	4.30	-3.55	35.07	-156.80	0.0
21.51											
		-21.51	0.0	-0.51	0.0	158.0	4.30	50.00	35.07	-156.80	5540.51
4793.29											
86	53	6541.03	734.55	0.14	53.55	0.0	-10.35	10.37	15.28	-76.39	0.0
51.74											
		51.74	0.0	-0.04	0.0	158.0	-10.35	63.92	15.28	-76.39	734.55
6541.03											
86	55	5887.99	0.0	0.11	53.55	0.0	-11.28	14.50	2.24	-11.21	0.0
51.73											
		51.73	-1325.29	0.13	0.0	158.0	-11.28	68.05	2.24	-11.21	-1325.29
5887.99											
86	56	1933.44	354.24	-0.30	53.55	0.0	10.35	-10.45	-8.39	41.94	0.0
56.38											
		-352.12	0.0	-0.07	0.0	158.0	10.35	43.10	-8.39	41.94	354.24
1933.44											
86	58	2572.80	1325.29	-0.28	53.55	0.0	11.28	-14.50	-2.24	11.21	0.0
51.73											
		-204.10	0.0	-0.13	0.0	158.0	11.28	39.05	-2.24	11.21	1325.29
2572.80											
86	71	4201.05	0.0	-0.06	53.55	0.0	-1.56	0.18	-14.70	67.65	0.0
7.82											
		7.82	-2323.01	0.20	0.0	158.0	-1.56	53.73	-14.70	67.65	-2323.01
4201.05											

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86	74	4259.74	2323.01	-0.11	53.55	0.0	1.56	-0.18	14.70	-67.65	0.0 -
7.82		-7.82	0.0	-0.20	0.0	158.0	1.56	53.36	14.70	-67.65	2323.01
4259.74											
86	87	5043.72	0.0	0.01	53.55	0.0	-4.15	6.31	0.12	-0.59	0.0
19.57		19.57	-515.95	0.05	0.0	158.0	-4.15	59.86	0.12	-0.59	-515.95
5043.72											
86	90	3417.06	515.95	-0.18	53.55	0.0	4.15	-6.31	-0.12	0.59	0.0 -
19.57		-52.69	0.0	-0.05	0.0	158.0	4.15	47.24	-0.12	0.59	515.95
3417.06											
86	96	3218.28	60.06	-0.19	53.55	0.0	3.83	6.41	0.38	17.63	0.0 -
20.32		-78.19	0.0	-0.02	0.0	158.0	3.83	59.96	0.38	17.63	60.06
3218.28											
86	97	5242.51	0.0	0.03	53.55	0.0	-3.83	-6.41	-0.38	-17.63	0.0
20.32		20.32	-60.06	0.02	0.0	158.0	-3.83	47.14	-0.38	-17.63	-60.06
5242.51											
87	2	2.020e+04	0.0	0.20	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	1.65e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
87	3	1523.05	0.0	-0.17	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
1523.05		0.0	0.0	1.65e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	6	9651.03	0.0	-0.12	130.31	0.0	0.0	-130.31	0.0	0.0	0.0
9651.03		0.0	0.0	2.55e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	7	0.0	0.0	-0.32	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	2.55e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
87	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
87	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	3.02e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	1.10e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	1.10e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
87	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	1.70e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
87	28	6998.07	0.0	-0.07	94.01	0.0	0.0	-94.01	0.0	0.0	0.0
6998.07		0.0	0.0	1.70e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
87	47	4662.31	0.0	0.11	53.55	0.0	4.30	-43.03	34.55	-172.75	-5458.77
4662.31		-21.49	-5458.77	-0.50	0.0	158.0	4.30	10.52	34.55	-172.75	0.0 -
21.49											
87	50	3798.48	5458.77	0.05	53.55	0.0	-4.30	-64.07	-34.55	172.75	5458.77
3798.48		9.67	0.0	0.50	0.0	158.0	-4.30	-10.52	-34.55	172.75	0.0
21.49											
87	51	1750.08	0.0	0.29	53.55	0.0	12.74	-65.05	9.28	-46.39	-1465.78
1750.08		-407.15	-1465.78	-0.15	0.0	158.0	12.74	-11.50	9.28	-46.39	0.0 -

65.71 87 6710.71	54	6710.71	1465.78	-0.13	53.55	0.0	-12.74	-42.05	-9.28	46.39	1465.78
		65.71	0.0	0.15	0.0	158.0	-12.74	11.50	-9.28	46.39	0.0
65.71 87 2385.30	55	2385.30	0.0	0.29	53.55	0.0	13.15	-65.09	15.84	-79.18	-2502.10
		-250.63	-2502.10	-0.25	0.0	158.0	13.15	-11.54	15.84	-79.18	0.0
65.73 87 6075.48	58	6075.48	2502.10	-0.13	53.55	0.0	-13.15	-42.01	-15.84	79.18	2502.10
		65.73	0.0	0.25	0.0	158.0	-13.15	11.54	-15.84	79.18	0.0
65.73 87 4257.35	79	4257.35	0.0	0.11	53.55	0.0	1.54	-49.71	14.52	-72.60	-2294.18
		-7.68	-2294.18	-0.20	0.0	158.0	1.54	3.84	14.52	-72.60	0.0
7.68 87 4203.44	82	4203.44	2294.18	0.06	53.55	0.0	-1.54	-57.39	-14.52	72.60	2294.18
		7.68	0.0	0.20	0.0	158.0	-1.54	-3.84	-14.52	72.60	0.0
7.68 87 3171.12	91	3171.12	0.0	0.19	53.55	0.0	4.50	-46.84	3.74	-18.71	-591.30
		-86.41	-591.30	-0.06	0.0	158.0	4.50	6.71	3.74	-18.71	0.0
22.98 87 3359.18	95	3359.18	0.0	0.19	53.55	0.0	4.60	-46.83	6.32	-31.59	-998.21
		-62.92	-998.21	-0.10	0.0	158.0	4.60	6.72	6.32	-31.59	0.0
22.99 87 5291.71	96	5291.71	0.0	-0.03	53.55	0.0	-4.50	-59.07	2.01	-10.03	-316.98
		22.48	-316.98	-0.02	0.0	158.0	-4.50	-5.52	2.01	-10.03	0.0
22.48 87 5101.61	98	5101.61	998.21	-0.03	53.55	0.0	-4.60	-60.27	-6.32	31.59	998.21
		22.99	0.0	0.10	0.0	158.0	-4.60	-6.72	-6.32	31.59	0.0
22.99 88 1.37e-05	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	1.65e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82 88 1.37e-05	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	1.65e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04 88 1.37e-05	3	6615.70	0.0	-0.33	73.24	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	1.65e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70 88 2.29e-05	7	7564.34	0.0	-0.46	78.93	0.0	0.0	0.0	0.0	0.0	0.0
		2.29e-05	0.0	2.55e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34 88 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39 88 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05 88 3.05e-06	23	4546.61	0.0	-0.13	55.45	0.0	0.0	0.0	0.0	0.0	0.0
		3.05e-06	0.0	3.02e-04	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61 88 9.16e-06	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.10e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60 88 9.16e-06	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.10e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 88 1.53e-05	27	6453.02	0.0	-0.34	70.47	0.0	0.0	0.0	0.0	0.0	0.0

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6453.02		1.53e-05	0.0	1.70e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
88	40	2562.93	0.0	-0.11	53.55	0.0	2.92	2.70	-34.57	150.17	0.0 -
21.42		-181.33	-5462.50	0.50	0.0	158.0	2.92	56.25	-34.57	150.17	-5462.50
2562.93											
88	41	5897.86	5462.50	-0.06	53.55	0.0	-2.92	-2.70	34.57	-150.17	0.0
21.42		21.42	0.0	-0.50	0.0	158.0	-2.92	50.85	34.57	-150.17	5462.50
5897.86											
88	51	6064.72	0.0	0.15	53.55	0.0	-13.15	-11.48	-3.56	79.10	0.0
63.71		63.71	-562.82	0.02	0.0	158.0	-13.15	42.07	-3.56	79.10	-562.82
6064.72											
88	54	2396.07	562.82	-0.32	53.55	0.0	13.15	11.48	3.56	-79.10	0.0 -
63.71		-246.97	0.0	-0.02	0.0	158.0	13.15	65.03	3.56	-79.10	562.82
2396.07											
88	56	1760.85	0.0	-0.29	53.55	0.0	12.74	11.44	-9.26	-14.98	0.0 -
65.73		-403.80	-1463.21	0.15	0.0	158.0	12.74	64.99	-9.26	-14.98	-1463.21
1760.85											
88	57	6699.94	1463.21	0.13	53.55	0.0	-12.74	-11.44	9.26	14.98	0.0
65.73		65.73	0.0	-0.15	0.0	158.0	-12.74	42.11	9.26	14.98	1463.21
6699.94											
88	72	3623.54	0.0	-0.11	53.55	0.0	1.19	0.17	-14.52	66.12	0.0 -
7.67		-28.59	-2294.60	0.20	0.0	158.0	1.19	53.72	-14.52	66.12	-2294.60
3623.54											
88	73	4837.25	2294.60	-0.06	53.55	0.0	-1.19	-0.17	14.52	-66.12	0.0
7.67		7.67	0.0	-0.20	0.0	158.0	-1.19	53.38	14.52	-66.12	2294.60
4837.25											
88	91	5102.09	0.0	0.03	53.55	0.0	-4.59	6.72	-2.00	31.63	0.0
22.45		22.45	-315.56	0.02	0.0	158.0	-4.59	60.27	-2.00	31.63	-315.56
5102.09											
88	92	3168.60	0.0	-0.19	53.55	0.0	4.49	-5.52	-6.33	9.99	0.0 -
22.96		-86.71	-999.63	0.10	0.0	158.0	4.49	48.03	-6.33	9.99	-999.63
3168.60											
88	93	5292.19	999.63	0.03	53.55	0.0	-4.49	5.52	6.33	-9.99	0.0
22.96		22.96	0.0	-0.10	0.0	158.0	-4.49	59.07	6.33	-9.99	999.63
5292.19											
88	94	3358.70	315.56	-0.20	53.55	0.0	4.59	-6.72	2.00	-31.63	0.0 -
22.45		-62.50	0.0	-0.02	0.0	158.0	4.59	46.83	2.00	-31.63	315.56
3358.70											
89	1	2792.17	0.0	-0.20	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	7.57e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
89	2	2.020e+04	0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	7.57e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
89	4	1.894e+04	0.0	0.12	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04		0.0	0.0	7.57e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
89	7	0.0	0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	1.17e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
89	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
89	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
89	23	3614.62	0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0

3614.62											
0.0		0.0	0.0	1.38e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
89	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
0.0		0.0	0.0	5.04e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
89	26	1.403e+04	0.0	0.10	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
0.0		0.0	0.0	5.04e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
89	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
0.0		0.0	0.0	7.81e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
89	48	5562.47	0.0	0.02	53.55	0.0	-3.62	-45.11	28.01	-147.65	-4665.71
5562.47											
18.09		18.09	-4665.71	-0.41	0.0	158.0	-3.62	8.44	28.01	-147.65	0.0
89	49	2898.32	4665.71	0.15	53.55	0.0	3.62	-61.99	-28.01	147.65	4665.71
2898.32											
18.09		-116.24	0.0	0.41	0.0	158.0	3.62	-8.44	-28.01	147.65	0.0
89	56	7141.56	0.0	-0.20	53.55	0.0	-10.41	-70.46	10.78	-53.90	-1703.38
7141.56											
52.03		52.03	-1703.38	-0.15	0.0	158.0	-10.41	-16.91	10.78	-53.90	0.0
89	57	1319.23	1703.38	0.37	53.55	0.0	10.41	-36.64	-10.78	53.90	1703.38
1319.23											
52.03		-532.39	0.0	0.15	0.0	158.0	10.41	16.91	-10.78	53.90	0.0
89	60	7441.17	0.0	-0.23	53.55	0.0	-10.31	-34.75	0.60	-28.38	-896.75
7441.17											
51.57		51.57	-896.75	-0.08	0.0	158.0	-10.31	18.80	0.60	-28.38	0.0
89	61	1019.62	896.75	0.40	53.55	0.0	10.31	-72.35	-0.60	28.38	896.75
1019.62											
51.57		-641.38	0.0	0.08	0.0	158.0	10.31	-18.80	-0.60	28.38	0.0
89	80	4767.78	0.0	0.04	53.55	0.0	-1.50	-50.15	12.95	-67.27	-2125.58
4767.78											
7.49		7.49	-2125.58	-0.18	0.0	158.0	-1.50	3.40	12.95	-67.27	0.0
89	81	3693.00	2125.58	0.12	53.55	0.0	1.50	-56.95	-12.95	67.27	2125.58
3693.00											
7.49		-24.08	0.0	0.18	0.0	158.0	1.50	-3.40	-12.95	67.27	0.0
89	92	5692.29	0.0	-0.07	53.55	0.0	-4.68	-44.72	0.74	-12.06	-381.23
5692.29											
23.38		23.38	-381.23	-0.03	0.0	158.0	-4.68	8.83	0.74	-12.06	0.0
89	93	2768.50	381.23	0.23	53.55	0.0	4.68	-62.38	-0.74	12.06	381.23
2768.50											
23.38		-144.38	0.0	0.03	0.0	158.0	4.68	-8.83	-0.74	12.06	0.0
89	96	5691.17	0.0	-0.07	53.55	0.0	-4.68	-44.30	3.13	-23.98	-757.63
5691.17											
23.39		23.39	-757.63	-0.07	0.0	158.0	-4.68	9.25	3.13	-23.98	0.0
89	97	2769.62	757.63	0.23	53.55	0.0	4.68	-62.80	-3.13	23.98	757.63
2769.62											
23.39		-144.18	0.0	0.07	0.0	158.0	4.68	-9.25	-3.13	23.98	0.0
90	1	7884.82	0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
7884.82		1.37e-05	0.0	7.57e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
90	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
2.530e+04		1.37e-05	0.0	7.57e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
90	4	2.403e+04	0.0	-0.73	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
2.403e+04		1.37e-05	0.0	7.57e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0

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90	7	7564.34	0.0	-0.55	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05											
		2.29e-05	0.0	1.17e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
90	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
90	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
90	23	4546.61	0.0	-0.14	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06											
		3.05e-06	0.0	1.38e-04	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
90	25	5820.60	0.0	-0.29	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	5.04e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
90	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	5.04e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
90	27	6453.02	0.0	-0.39	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05											
		1.53e-05	0.0	7.81e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
90	39	5569.57	0.0	-0.03	53.55	0.0	-3.60	-3.35	-29.61	139.62	0.0
18.02											
		18.02	-4678.49	0.41	0.0	158.0	-3.60	50.20	-29.61	139.62	-4678.49
5569.57											
90	42	2891.21	4678.49	-0.15	53.55	0.0	3.60	3.35	29.61	-139.62	0.0 -
18.02											
		-117.07	0.0	-0.41	0.0	158.0	3.60	56.90	29.61	-139.62	4678.49
2891.21											
90	51	7141.34	0.0	0.20	53.55	0.0	-10.42	18.45	-6.40	31.98	0.0
52.10											
		52.10	-1716.52	0.15	0.0	158.0	-10.42	72.00	-6.40	31.98	-1716.52
7141.34											
90	54	1319.45	1716.52	-0.37	53.55	0.0	10.42	-18.45	6.40	-31.98	0.0 -
52.10											
		-532.37	0.0	-0.15	0.0	158.0	10.42	35.10	6.40	-31.98	1716.52
1319.45											
90	62	997.64	1807.50	-0.40	53.55	0.0	10.27	18.96	11.44	-29.10	0.0 -
51.37											
		-649.49	0.0	-0.16	0.0	158.0	10.27	72.51	11.44	-29.10	1807.50
997.64											
90	65	7464.86	51.54	0.25	53.55	0.0	-9.94	-18.95	0.33	-29.73	0.0
49.68											
		49.68	0.0	9.80e-03	0.0	158.0	-9.94	34.60	0.33	-29.73	51.54
7464.86											
90	71	4768.19	0.0	-0.05	53.55	0.0	-1.50	-2.03	-13.47	64.69	0.0
7.48											
		7.48	-2127.73	0.18	0.0	158.0	-1.50	51.52	-13.47	64.69	-2127.73
4768.19											
90	74	3692.60	2127.73	-0.12	53.55	0.0	1.50	2.03	13.47	-64.69	0.0 -
7.48											
		-24.10	0.0	-0.18	0.0	158.0	1.50	55.58	13.47	-64.69	2127.73
3692.60											
90	91	5692.51	0.0	0.07	53.55	0.0	-4.67	-8.85	-4.84	15.41	0.0
23.36											
		23.36	-764.80	0.07	0.0	158.0	-4.67	44.70	-4.84	15.41	-764.80
5692.51											
90	94	2768.28	764.80	-0.23	53.55	0.0	4.67	8.85	4.84	-15.41	0.0 -
23.36											
		-144.40	0.0	-0.07	0.0	158.0	4.67	62.40	4.84	-15.41	764.80
2768.28											
90	97	5693.63	110.43	0.07	53.55	0.0	-4.61	-8.84	0.70	-12.29	0.0
23.06											
		23.06	0.0	-6.04e-03	0.0	158.0	-4.61	44.71	0.70	-12.29	110.43
5693.63											
91	1	2792.17	0.0	-0.09	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	2.66e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0

0.0 91 2.020e+04	2	2.020e+04	0.0	0.25	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	2.66e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 91 1.894e+04	4	1.894e+04	0.0	0.23	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
		0.0	0.0	2.66e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0 91 324.29	7	0.0	0.0	-0.23	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
		-373.37	0.0	4.11e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 91 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 91 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 91 3614.62	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
		0.0	0.0	4.86e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 91 2425.50	25	2425.50	0.0	-0.05	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
		0.0	0.0	1.77e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 91 1.403e+04	26	1.403e+04	0.0	0.18	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	1.77e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 91 1193.94	27	1193.94	0.0	-0.12	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	2.74e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 91 5783.48	44	5783.48	0.0	0.04	53.55	0.0	-3.62	-51.21	26.76	-133.79	-4627.19
		18.11	-4627.19	-0.40	0.0	158.0	-3.62	2.34	26.76	-133.79	0.0
18.11 91 2677.31	45	2677.31	4627.19	0.13	53.55	0.0	3.62	-55.89	-26.76	133.79	4627.19
		-157.19	0.0	0.40	0.0	158.0	3.62	-2.34	-26.76	133.79	0.0 -
18.11 91 7276.24	52	7276.24	0.0	-0.11	53.55	0.0	-14.12	-34.28	-1.05	5.23	-1166.47
		70.60	-1166.47	-0.10	0.0	158.0	-14.12	19.27	-1.05	5.23	0.0
70.60 91 1184.55	53	1184.55	1166.47	0.28	53.55	0.0	14.12	-72.82	1.05	-5.23	1166.47
		-591.42	0.0	0.10	0.0	158.0	14.12	-19.27	1.05	-5.23	0.0 -
70.60 91 7612.33	56	7612.33	0.0	-0.11	53.55	0.0	-13.77	-34.40	4.19	-20.96	-1994.12
		68.86	-1994.12	-0.18	0.0	158.0	-13.77	19.15	4.19	-20.96	0.0
68.86 91 848.46	57	848.46	1994.12	0.28	53.55	0.0	13.77	-72.70	-4.19	20.96	1994.12
		-716.36	0.0	0.18	0.0	158.0	13.77	-19.15	-4.19	20.96	0.0 -
68.86 91 4799.73	80	4799.73	0.0	0.06	53.55	0.0	-1.19	-52.10	13.49	-63.86	-2131.03
		5.94	-2131.03	-0.18	0.0	158.0	-1.19	1.45	13.49	-63.86	0.0
5.94 91 3661.06	81	3661.06	2131.03	0.11	53.55	0.0	1.19	-55.00	-13.49	63.86	2131.03
		-24.63	0.0	0.18	0.0	158.0	1.19	-1.45	-13.49	63.86	0.0 -
5.94 91 5615.15	88	5615.15	0.0	-0.02	53.55	0.0	-4.10	-45.43	2.75	-13.76	-809.95
		20.50	-809.95	-0.07	0.0	158.0	-4.10	8.12	2.75	-13.76	0.0
20.50 91 2845.64	89	2845.64	809.95	0.17	53.55	0.0	4.10	-61.67	-2.75	13.76	809.95

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20.50		-127.58	0.0	0.07	0.0	158.0	4.10	-8.12	-2.75	13.76	0.0	-			
91	95	2952.70	0.0	0.19	53.55	0.0	4.34	-62.31	2.75	-25.65	-434.13				
2952.70		-112.58	-434.13	-0.04	0.0	158.0	4.34	-8.76	2.75	-25.65	0.0	-			
21.68															
91	98	5508.09	434.13	-0.03	53.55	0.0	-4.34	-44.79	-2.75	25.65	434.13				
5508.09		21.68	0.0	0.04	0.0	158.0	-4.34	8.76	-2.75	25.65	0.0				
21.68															
92	1	7884.82	0.0	-0.30	89.31	0.0	0.0	0.0	0.0	0.0	0.0				
1.37e-05		1.37e-05	0.0	2.66e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0				
7884.82															
92	2	2.530e+04	0.0	-0.64	309.72	0.0	0.0	0.0	0.0	0.0	0.0				
1.37e-05		1.37e-05	0.0	2.66e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0				
2.530e+04															
92	3	6615.70	0.0	-0.27	73.24	0.0	0.0	0.0	0.0	0.0	0.0				
1.37e-05		1.37e-05	0.0	2.66e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0				
6615.70															
92	4	2.403e+04	0.0	-0.62	293.65	0.0	0.0	0.0	0.0	0.0	0.0				
1.37e-05		1.37e-05	0.0	2.66e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0				
2.403e+04															
92	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0				
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0				
4230.39															
92	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0				
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0				
6552.05															
92	25	5820.60	0.0	-0.21	66.68	0.0	0.0	0.0	0.0	0.0	0.0				
9.16e-06		9.16e-06	0.0	1.77e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0				
5820.60															
92	26	1.743e+04	0.0	-0.44	213.62	0.0	0.0	0.0	0.0	0.0	0.0				
9.16e-06		9.16e-06	0.0	1.77e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0				
1.743e+04															
92	35	5781.73	0.0	-0.05	53.55	0.0	-4.71	2.33	-29.29	146.45	0.0				
23.56		23.56	-4627.88	0.40	0.0	158.0	-4.71	55.88	-29.29	146.45	-4627.88				
5781.73															
92	38	2679.06	4627.88	-0.13	53.55	0.0	4.71	-2.33	29.29	-146.45	0.0	-			
23.56		-161.29	0.0	-0.40	0.0	158.0	4.71	51.22	29.29	-146.45	4627.88				
2679.06															
92	51	7606.47	0.0	0.11	53.55	0.0	-14.01	19.11	-12.64	63.18	0.0				
70.04		70.04	-1996.42	0.18	0.0	158.0	-14.01	72.66	-12.64	63.18	-1996.42				
7606.47															
92	54	854.31	1996.42	-0.28	53.55	0.0	14.01	-19.11	12.64	-63.18	0.0	-			
70.04		-714.90	0.0	-0.18	0.0	158.0	14.01	34.44	12.64	-63.18	1996.42				
854.31															
92	55	7587.50	0.0	0.11	53.55	0.0	-14.02	19.23	-7.40	36.99	0.0				
70.10		70.10	-1168.77	0.10	0.0	158.0	-14.02	72.78	-7.40	36.99	-1168.77				
7587.50															
92	58	873.29	1168.77	-0.28	53.55	0.0	14.02	-19.23	7.40	-36.99	0.0	-			
70.10		-707.83	0.0	-0.10	0.0	158.0	14.02	34.32	7.40	-36.99	1168.77				
873.29															
92	67	4801.07	0.0	-0.06	53.55	0.0	-1.34	1.45	-13.49	67.44	0.0				
6.69		6.69	-2130.95	0.18	0.0	158.0	-1.34	55.00	-13.49	67.44	-2130.95				
4801.07															
92	70	3659.72	2130.95	-0.11	53.55	0.0	1.34	-1.45	13.49	-67.44	0.0	-			
6.69		-25.41	0.0	-0.18	0.0	158.0	1.34	52.10	13.49	-67.44	2130.95				
3659.72															
92	83	5614.96	0.0	-0.02	53.55	0.0	-4.15	8.12	-5.13	25.64	0.0				

20.73											
		20.73	-810.34	0.07	0.0	158.0	-4.15	61.67	-5.13	25.64	-810.34
5614.96											
92	86	2845.82	810.34	-0.17	53.55	0.0	4.15	-8.12	5.13	-25.64	0.0
20.73		-127.72	0.0	-0.07	0.0	158.0	4.15	45.43	5.13	-25.64	810.34
2845.82											
92	91	5607.34	0.0	0.02	53.55	0.0	-4.36	-8.74	-2.75	25.64	0.0
21.79		21.79	-810.11	0.07	0.0	158.0	-4.36	44.81	-2.75	25.64	-810.11
5607.34											
92	94	2853.45	810.11	-0.18	53.55	0.0	4.36	8.74	2.75	-25.64	0.0
21.79		-127.15	0.0	-0.07	0.0	158.0	4.36	62.29	2.75	-25.64	810.11
2853.45											
93	2	2.020e+04	0.0	0.16	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	2.62e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
93	3	1523.05	0.0	-0.20	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
1523.05		0.0	0.0	2.62e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
93	7	0.0	0.0	-0.37	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
324.29		-373.37	0.0	4.05e-05	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
93	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
93	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
93	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	4.79e-06	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
93	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	1.74e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
93	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	1.74e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
93	27	1193.94	0.0	-0.22	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	2.70e-05	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
93	47	2524.41	0.0	0.15	53.55	0.0	2.93	-53.19	29.03	-145.17	-4587.50
2524.41		-187.21	-4587.50	-0.40	0.0	158.0	2.93	0.36	29.03	-145.17	0.0
19.76											
93	50	5936.38	4587.50	-0.02	53.55	0.0	-2.93	-53.91	-29.03	145.17	4587.50
5936.38		19.76	0.0	0.40	0.0	158.0	-2.93	-0.36	-29.03	145.17	0.0
19.76											
93	59	1219.28	0.0	0.40	53.55	0.0	11.30	-69.29	6.74	-33.68	-1064.35
1219.28		-570.66	-1064.35	-0.10	0.0	158.0	11.30	-15.74	6.74	-33.68	0.0
58.23											
93	60	6704.29	92.00	-0.26	53.55	0.0	-11.65	-34.41	-0.58	2.91	92.00
6704.29		56.49	0.0	0.03	0.0	158.0	-11.65	19.14	-0.58	2.91	0.0
56.49											
93	61	1756.50	0.0	0.42	53.55	0.0	11.65	-72.69	0.58	-2.91	-92.00
1756.50		-398.81	-92.00	-0.03	0.0	158.0	11.65	-19.14	0.58	-2.91	0.0
56.49											
93	62	7241.51	1064.35	-0.24	53.55	0.0	-11.30	-37.81	-6.74	33.68	1064.35
7241.51		58.23	0.0	0.10	0.0	158.0	-11.30	15.74	-6.74	33.68	0.0
58.23											

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93	79	3611.00	0.0	0.12	53.55	0.0	1.29	-54.21	13.40	-67.01	-2117.50
3611.00											
		-29.01	-2117.50	-0.18	0.0	158.0	1.29	-0.66	13.40	-67.01	0.0 -
7.28											
93	82	4849.78	2117.50	0.04	53.55	0.0	-1.29	-52.89	-13.40	67.01	2117.50
4849.78											
		7.28	0.0	0.18	0.0	158.0	-1.29	0.66	-13.40	67.01	0.0
7.28											
93	91	2947.47	0.0	0.23	53.55	0.0	4.55	-60.70	2.86	-14.28	-451.16
2947.47											
		-114.47	-451.16	-0.04	0.0	158.0	4.55	-7.15	2.86	-14.28	0.0 -
23.09											
93	92	5357.10	0.0	-0.07	53.55	0.0	-4.62	-45.41	0.30	-1.48	-46.81
5357.10											
		22.74	-46.81	2.20e-03	0.0	158.0	-4.62	8.13	0.30	-1.48	0.0
22.74											
93	93	3103.69	46.81	0.23	53.55	0.0	4.62	-61.68	-0.30	1.48	46.81
3103.69											
		-94.63	0.0	-2.20e-03	0.0	158.0	4.62	-8.13	-0.30	1.48	0.0 -
22.74											
93	94	5513.32	451.16	-0.06	53.55	0.0	-4.55	-46.40	-2.86	14.28	451.16
5513.32											
		23.09	0.0	0.04	0.0	158.0	-4.55	7.15	-2.86	14.28	0.0
23.09											
94	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.62e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
94	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.62e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
94	3	6615.70	0.0	-0.37	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.62e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
94	4	2.403e+04	0.0	-0.71	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	2.62e-05	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04											
94	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
94	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
94	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.74e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
94	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	1.74e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
94	40	2535.47	0.0	-0.15	53.55	0.0	2.93	0.44	-29.02	145.11	0.0 -
14.65											
		-180.98	-4585.56	0.40	0.0	158.0	2.93	53.99	-29.02	145.11	-4585.56
2535.47											
94	41	5925.32	4585.56	-0.03	53.55	0.0	-2.93	-0.44	29.02	-145.11	0.0
14.65											
		14.65	0.0	-0.40	0.0	158.0	-2.93	53.11	29.02	-145.11	4585.56
5925.32											
94	63	7204.65	85.53	0.26	53.55	0.0	-11.30	15.47	0.54	-2.71	0.0
56.49											
		56.49	0.0	-0.03	0.0	158.0	-11.30	69.02	0.54	-2.71	85.53
7204.65											
94	64	1793.36	0.0	-0.41	53.55	0.0	11.64	-18.86	-6.70	33.48	0.0 -
58.22											
		-388.53	-1057.88	0.10	0.0	158.0	11.64	34.69	-6.70	33.48	-1057.88
1793.36											
94	65	6667.43	1057.88	0.24	53.55	0.0	-11.64	18.86	6.70	-33.48	0.0
58.22											
		58.22	0.0	-0.10	0.0	158.0	-11.64	72.41	6.70	-33.48	1057.88

6667.43 94 56.49	66	1256.14	0.0	-0.43	53.55	0.0	11.30	-15.47	-0.54	2.71	0.0
1256.14 94 6.47		-555.75	-85.53	0.03	0.0	158.0	11.30	38.08	-0.54	2.71	-85.53
3612.25 94 6.47	72	3612.25	0.0	-0.12	53.55	0.0	1.29	-0.65	-13.40	67.01	0.0
4848.54 94 22.74		-28.18	-2117.39	0.18	0.0	158.0	1.29	52.90	-13.40	67.01	-2117.39
5509.18 94 23.09	73	4848.54	2117.39	-0.05	53.55	0.0	-1.29	0.65	13.40	-67.01	0.0
3107.83 94 23.09		6.47	0.0	-0.18	0.0	158.0	-1.29	54.20	13.40	-67.01	2117.39
5352.96 94 22.74	95	5509.18	0.0	0.07	53.55	0.0	-4.55	7.12	-0.30	1.49	0.0
2951.61 95 2792.17		22.74	-47.18	-2.13e-03	0.0	158.0	-4.55	60.67	-0.30	1.49	-47.18
0.0 95 2.020e+04	96	3107.83	0.0	-0.23	53.55	0.0	4.62	-8.11	-2.85	14.27	0.0
0.0 95 1.894e+04		-94.43	-450.78	0.04	0.0	158.0	4.62	45.44	-2.85	14.27	-450.78
0.0 95 324.29	97	5352.96	450.78	0.06	53.55	0.0	-4.62	8.11	2.85	-14.27	0.0
0.0 95 4230.39		23.09	0.0	-0.04	0.0	158.0	-4.62	61.65	2.85	-14.27	450.78
0.0 95 6552.05	98	2951.61	47.18	-0.23	53.55	0.0	4.55	-7.12	0.30	-1.49	0.0
0.0 95 1.403e+04		-113.65	0.0	2.13e-03	0.0	158.0	4.55	46.43	0.30	-1.49	47.18
0.0 95 1193.94	1	2792.17	0.0	-0.18	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
0.0 95 4133.49		0.0	0.0	-2.38e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 95 4327.30	2	2.020e+04	0.0	0.16	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-2.38e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 95 4327.30	4	1.894e+04	0.0	0.14	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-2.38e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0 95 4327.30	7	0.0	0.0	-0.37	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
0.0 95 4327.30		-373.37	0.0	-3.68e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0 95 4327.30	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 95 4327.30	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 95 4327.30	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-4.35e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 95 4327.30	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-1.59e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 95 4327.30	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-1.59e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 95 4327.30	27	1193.94	0.0	-0.22	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
0.0 95 4327.30		0.0	0.0	-2.46e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 95 4327.30	48	4133.49	0.0	0.01	53.55	0.0	-4.19	-42.04	26.70	-133.51	-4525.37
0.0 95 4327.30		20.96	-4525.37	-0.40	0.0	158.0	-4.19	11.51	26.70	-133.51	0.0
0.0 95 4327.30	49	4327.30	4525.37	0.16	53.55	0.0	4.19	-65.06	-26.70	133.51	4525.37

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20.96		-20.96	0.0	0.40	0.0	158.0	4.19	-11.51	-26.70	133.51	0.0 -		
95	60	7385.57	0.0	-0.25	53.55	0.0	-12.56	-37.17	-0.17	0.84	-995.18		
7385.57		62.78	-995.18	-0.09	0.0	158.0	-12.56	16.38	-0.17	0.84	0.0		
62.78		95	61	1075.22	995.18	0.41	53.55	0.0	12.56	-69.93	0.17	-0.84	995.18
1075.22		-627.53	0.0	0.09	0.0	158.0	12.56	-16.38	0.17	-0.84	0.0 -		
62.78		95	64	6808.06	0.0	-0.25	53.55	0.0	-12.57	-33.51	5.07	-25.34	-1822.47
6808.06		62.84	-1822.47	-0.17	0.0	158.0	-12.57	20.04	5.07	-25.34	0.0		
62.84		95	65	1652.73	1822.47	0.41	53.55	0.0	12.57	-73.58	-5.07	25.34	1822.47
1652.73		-435.60	0.0	0.17	0.0	158.0	12.57	-20.04	-5.07	25.34	0.0 -		
62.84		95	80	4323.30	0.0	0.04	53.55	0.0	-1.53	-49.48	12.64	-63.22	-2111.86
4323.30		7.65	-2111.86	-0.18	0.0	158.0	-1.53	4.07	12.64	-63.22	0.0		
7.65		95	81	4137.49	2111.86	0.12	53.55	0.0	1.53	-57.62	-12.64	63.22	2111.86
4137.49		-7.65	0.0	0.18	0.0	158.0	1.53	-4.07	-12.64	63.22	0.0 -		
7.65		95	92	5539.54	0.0	-0.06	53.55	0.0	-4.77	-46.31	0.37	-1.84	-438.95
5539.54		23.85	-438.95	-0.04	0.0	158.0	-4.77	7.24	0.37	-1.84	0.0		
23.85		95	93	2921.24	438.95	0.23	53.55	0.0	4.77	-60.79	-0.37	1.84	438.95
2921.24		-118.42	0.0	0.04	0.0	158.0	4.77	-7.24	-0.37	1.84	0.0 -		
23.85		95	96	5373.67	0.0	-0.06	53.55	0.0	-4.77	-45.26	2.70	-13.48	-806.81
5373.67		23.87	-806.81	-0.07	0.0	158.0	-4.77	8.29	2.70	-13.48	0.0		
23.87		95	97	3087.11	806.81	0.23	53.55	0.0	4.77	-61.84	-2.70	13.48	806.81
3087.11		-97.70	0.0	0.07	0.0	158.0	4.77	-8.29	-2.70	13.48	0.0 -		
23.87		96	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	
1.37e-05		1.37e-05	0.0	-2.38e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0		
7884.82		96	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	
1.37e-05		1.37e-05	0.0	-2.38e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0		
2.530e+04		96	7	7564.34	0.0	-0.51	78.93	0.0	0.0	0.0	0.0	0.0	
2.29e-05		2.29e-05	0.0	-3.68e-04	0.0	158.0	0.0	78.93	0.0	0.0	0.0		
7564.34		96	12	1.596e+04	0.0	-0.58	190.89	0.0	0.0	0.0	0.0	0.0	
1.37e-05		1.37e-05	0.0	-2.66e-04	0.0	158.0	0.0	190.89	0.0	0.0	0.0		
1.596e+04		96	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0		
4230.39		96	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0		
6552.05		96	24	4444.25	0.0	-0.10	56.03	0.0	0.0	0.0	0.0	0.0	
0.0		0.0	0.0	-9.32e-06	0.0	158.0	0.0	56.03	0.0	0.0	0.0		
4444.25		96	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	
9.16e-06		9.16e-06	0.0	-1.59e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0		
5820.60		96	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	

9.16e-06		9.16e-06	0.0	-1.59e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04	27	6453.02	0.0	-0.37	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	-2.46e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02	30	1.205e+04	0.0	-0.41	145.11	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-1.77e-04	0.0	158.0	0.0	145.11	0.0	0.0	0.0
1.205e+04	39	6024.51	0.0	-0.03	53.55	0.0	-4.22	0.73	-26.69	143.24	0.0
21.10		21.10	-4526.43	0.40	0.0	158.0	-4.22	54.27	-26.69	143.24	-4526.43
6024.51	42	2436.28	4526.43	-0.16	53.55	0.0	4.22	-0.73	26.69	-143.24	0.0
21.10		-204.82	0.0	-0.40	0.0	158.0	4.22	52.82	26.69	-143.24	4526.43
2436.28	59	7310.11	0.0	0.25	53.55	0.0	-12.66	-15.92	-5.05	57.79	0.0
63.31		63.31	-1826.02	0.17	0.0	158.0	-12.66	37.63	-5.05	57.79	-1826.02
7310.11	62	1150.68	1826.02	-0.41	53.55	0.0	12.66	15.92	5.05	-57.79	0.0
63.31		-599.56	0.0	-0.17	0.0	158.0	12.66	69.47	5.05	-57.79	1826.02
1150.68	63	7313.85	0.0	0.25	53.55	0.0	-12.65	-15.89	0.19	31.61	0.0
63.24		63.24	-998.73	0.09	0.0	158.0	-12.65	37.65	0.19	31.61	-998.73
7313.85	66	1146.94	998.73	-0.41	53.55	0.0	12.65	15.89	-0.19	-31.61	0.0
63.24		-600.92	0.0	-0.09	0.0	158.0	12.65	69.44	-0.19	-31.61	998.73
1146.94	71	4871.57	0.0	-0.05	53.55	0.0	-1.53	-0.59	-12.64	66.83	0.0
7.67		7.67	-2111.77	0.18	0.0	158.0	-1.53	52.96	-12.64	66.83	-2111.77
4871.57	74	3589.22	2111.77	-0.12	53.55	0.0	1.53	0.59	12.64	-66.83	0.0
7.67		-30.74	0.0	-0.18	0.0	158.0	1.53	54.13	12.64	-66.83	2111.77
3589.22	91	5534.05	0.0	0.06	53.55	0.0	-4.78	-7.22	-2.70	25.52	0.0
96		23.91	-806.49	0.07	0.0	158.0	-4.78	46.33	-2.70	25.52	-806.49
5534.05	94	2926.74	806.49	-0.23	53.55	0.0	4.78	7.22	2.70	-25.52	0.0
23.91		-117.78	0.0	-0.07	0.0	158.0	4.78	60.77	2.70	-25.52	806.49
2926.74	95	5535.04	0.0	0.06	53.55	0.0	-4.78	-7.21	-0.37	13.88	0.0
96		23.90	-438.63	0.04	0.0	158.0	-4.78	46.34	-0.37	13.88	-438.63
5535.04	98	2925.75	438.63	-0.23	53.55	0.0	4.78	7.21	0.37	-13.88	0.0
23.90		-117.89	0.0	-0.04	0.0	158.0	4.78	60.76	0.37	-13.88	438.63
2925.75	1	2792.17	0.0	-0.09	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	-5.24e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0	2	2.020e+04	0.0	0.25	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
97		0.0	0.0	-5.24e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
2.020e+04	4	1.894e+04	0.0	0.23	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
0.0		0.0	0.0	-5.24e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
97	7	0.0	0.0	-0.23	4.04	0.0	0.0	-4.04	0.0	0.0	0.0
1.894e+04		-373.37	0.0	-8.12e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											

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97	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
97	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
97	23	3614.62	0.0	0.04	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	-9.60e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
97	25	2425.50	0.0	-0.05	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	-3.50e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
97	26	1.403e+04	0.0	0.18	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	-3.50e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
97	27	1193.94	0.0	-0.13	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	-5.42e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
97	47	2734.41	0.0	0.14	53.55	0.0	2.91	-44.05	28.98	-144.92	-4579.61
2734.41											
		-147.88	-4579.61	-0.40	0.0	158.0	2.91	9.50	28.98	-144.92	0.0 -
19.83											
97	50	5726.38	4579.61	0.03	53.55	0.0	-2.91	-63.05	-28.98	144.92	4579.61
5726.38											
		19.83	0.0	0.40	0.0	158.0	-2.91	-9.50	-28.98	144.92	0.0
19.83											
97	52	6703.75	0.0	-0.10	53.55	0.0	-13.65	-35.58	0.63	-3.17	-100.32
6703.75											
		66.43	-100.32	-7.94e-03	0.0	158.0	-13.65	17.97	0.63	-3.17	0.0
66.43											
97	53	1757.04	100.32	0.26	53.55	0.0	13.65	-71.52	-0.63	3.17	100.32
1757.04											
		-405.47	0.0	7.94e-03	0.0	158.0	13.65	-17.97	-0.63	3.17	0.0 -
66.43											
97	63	1208.34	0.0	0.33	53.55	0.0	11.31	-34.31	12.68	-63.39	-2003.26
1208.34											
		-574.69	-2003.26	-0.20	0.0	158.0	11.31	19.23	12.68	-63.39	0.0 -
58.11											
97	66	7252.45	2003.26	-0.16	53.55	0.0	-11.31	-72.78	-12.68	63.39	2003.26
7252.45											
		58.11	0.0	0.20	0.0	158.0	-11.31	-19.23	-12.68	63.39	0.0
58.11											
97	79	3663.57	0.0	0.11	53.55	0.0	1.19	-49.95	13.44	-67.22	-2124.30
3663.57											
		-25.67	-2124.30	-0.19	0.0	158.0	1.19	3.60	13.44	-67.22	0.0 -
7.22											
97	82	4797.22	2124.30	0.06	53.55	0.0	-1.19	-57.15	-13.44	67.22	2124.30
4797.22											
		7.22	0.0	0.19	0.0	158.0	-1.19	-3.60	-13.44	67.22	0.0
7.22											
97	95	2907.19	0.0	0.19	53.55	0.0	4.36	-45.13	5.09	-25.47	-804.85
2907.19											
		-118.69	-804.85	-0.07	0.0	158.0	4.36	8.42	5.09	-25.47	0.0 -
22.16											
97	96	5441.59	0.0	-0.03	53.55	0.0	-4.43	-61.26	2.76	-13.82	-436.58
5441.59											
		21.78	-436.58	-0.03	0.0	158.0	-4.43	-7.71	2.76	-13.82	0.0
21.78											
97	97	3019.20	436.58	0.19	53.55	0.0	4.43	-45.84	-2.76	13.82	436.58
3019.20											
		-104.36	0.0	0.03	0.0	158.0	4.43	7.71	-2.76	13.82	0.0 -
21.78											
97	98	5553.59	804.85	-0.03	53.55	0.0	-4.36	-61.96	-5.09	25.47	804.85
5553.59											
		22.16	0.0	0.07	0.0	158.0	-4.36	-8.42	-5.09	25.47	0.0
22.16											
98	1	7884.82	0.0	-0.30	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	-5.24e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0

7884.82 98 1.37e-05	2	2.530e+04	0.0	-0.64	309.72	0.0	0.0	0.0	0.0	0.0	0.0
2.530e+04 98 1.37e-05	3	6615.70	0.0	-0.28	73.24	0.0	0.0	0.0	0.0	0.0	0.0
6615.70 98 1.37e-05	4	2.403e+04	0.0	-0.62	293.65	0.0	0.0	0.0	0.0	0.0	0.0
2.403e+04 98 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
4230.39 98 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
6552.05 98 9.16e-06	25	5820.60	0.0	-0.21	66.68	0.0	0.0	0.0	0.0	0.0	0.0
5820.60 98 9.16e-06	26	1.743e+04	0.0	-0.44	213.62	0.0	0.0	0.0	0.0	0.0	0.0
1.743e+04 98 19.41	40	2735.68	0.0	-0.14	53.55	0.0	2.83	-1.30	-28.93	144.65	0.0 -
2735.68 98 19.41	41	5725.11	4570.93	-0.04	53.55	0.0	-2.83	1.30	28.93	-144.65	0.0
5725.11 98 65.82	55	6706.65	0.0	0.10	53.55	0.0	-13.53	-15.67	-0.60	2.98	0.0
6706.65 98 65.82	58	1754.14	94.14	-0.26	53.55	0.0	13.53	15.67	0.60	-2.98	0.0 -
1754.14 98 56.72	60	1212.57	0.0	-0.32	53.55	0.0	11.03	-16.76	-12.50	62.48	0.0 -
1212.57 98 56.72	61	7248.22	1974.31	0.16	53.55	0.0	-11.03	16.76	12.50	-62.48	0.0
7248.22 98 7.20	72	3663.73	0.0	-0.11	53.55	0.0	1.19	-1.24	-13.43	67.17	0.0 -
3663.73 98 7.20	73	4797.06	2122.69	-0.06	53.55	0.0	-1.19	1.24	13.43	-67.17	0.0
4797.06 98 21.74	91	5441.05	0.0	0.03	53.55	0.0	-4.42	8.41	-2.80	13.98	0.0
5441.05 98 22.12	92	2907.74	0.0	-0.19	53.55	0.0	4.35	-7.70	-5.06	25.30	0.0 -
2907.74 98 22.12	93	5553.05	799.51	0.02	53.55	0.0	-4.35	7.70	5.06	-25.30	0.0
5553.05 98 21.74	94	3019.74	441.93	-0.19	53.55	0.0	4.42	-8.41	2.80	-13.98	0.0 -

LUMINORA LA FEUDALE SRL			green & green WE ENGINEERING					CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture			
Powertis								PAGE 251 di/of 308			
		-104.25	0.0	-0.03	0.0	158.0	4.42	45.14	2.80	-13.98	441.93
3019.74											
99	1	2792.17	0.0	-0.20	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17											
		0.0	0.0	-4.96e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	2	2.020e+04	0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04											
		0.0	0.0	-4.96e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
99	7	0.0	0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29											
		-373.37	0.0	-7.69e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
99	8	8381.91	0.0	-0.23	114.24	0.0	0.0	-114.24	0.0	0.0	0.0
8381.91											
		0.0	0.0	-7.69e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
99	23	3614.62	0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	-9.08e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	-3.31e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	26	1.403e+04	0.0	0.10	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	-3.31e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
99	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	-5.12e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
99	28	6998.07	0.0	-0.13	94.01	0.0	0.0	-94.01	0.0	0.0	0.0
6998.07											
		0.0	0.0	-5.12e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
99	47	2291.13	0.0	0.15	53.55	0.0	4.17	-55.63	28.42	-142.09	-4489.95
2291.13											
		-236.05	-4489.95	-0.39	0.0	158.0	4.17	-2.08	28.42	-142.09	0.0 -
20.85											
99	50	6169.66	4489.95	-0.02	53.55	0.0	-4.17	-51.47	-28.42	142.09	4489.95
6169.66											
		20.85	0.0	0.39	0.0	158.0	-4.17	2.08	-28.42	142.09	0.0
20.85											
99	59	207.07	0.0	0.48	53.55	0.0	11.13	-75.94	5.23	-26.15	-826.45
207.07											
		-981.89	-826.45	-0.08	0.0	158.0	11.13	-22.39	5.23	-26.15	0.0 -
55.65											
99	62	8253.72	826.45	-0.31	53.55	0.0	-11.13	-31.16	-5.23	26.15	826.45
8253.72											
		55.65	0.0	0.08	0.0	158.0	-11.13	22.39	-5.23	26.15	0.0
55.65											
99	63	211.49	0.0	0.48	53.55	0.0	11.20	-75.97	10.42	-52.10	-1646.22
211.49											
		-980.05	-1646.22	-0.16	0.0	158.0	11.20	-22.42	10.42	-52.10	0.0 -
56.00											
99	66	8249.29	1646.22	-0.31	53.55	0.0	-11.20	-31.13	-10.42	52.10	1646.22
8249.29											
		56.00	0.0	0.16	0.0	158.0	-11.20	22.42	-10.42	52.10	0.0
56.00											
99	79	3600.98	0.0	0.13	53.55	0.0	1.67	-55.60	13.16	-65.82	-2080.07
3600.98											
		-30.63	-2080.07	-0.18	0.0	158.0	1.67	-2.05	13.16	-65.82	0.0 -
8.34											
99	82	4859.81	2080.07	0.04	53.55	0.0	-1.67	-51.50	-13.16	65.82	2080.07

4859.81			8.34	0.0	0.18	0.0	158.0	-1.67	2.05	-13.16	65.82	0.0
8.34												
99	95	2596.37		0.0	0.25	53.55	0.0	5.04	-63.32	4.53	-22.66	-715.96
2596.37			-178.13	-715.96	-0.07	0.0	158.0	5.04	-9.77	4.53	-22.66	0.0
25.20												
99	98	5864.42		715.96	-0.09	53.55	0.0	-5.04	-43.78	-4.53	22.66	715.96
5864.42			25.20	0.0	0.07	0.0	158.0	-5.04	9.77	-4.53	22.66	0.0
25.20												
100	1	7884.82		0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	-4.96e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82												
100	2	2.530e+04		0.0	-0.76	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	-4.96e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04												
100	3	6615.70		0.0	-0.39	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	-4.96e-04	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70												
100	4	2.403e+04		0.0	-0.73	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05			1.37e-05	0.0	-4.96e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04												
100	21	4230.39		0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0			0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39												
100	22	6552.05		0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0			0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05												
100	25	5820.60		0.0	-0.29	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06			9.16e-06	0.0	-3.31e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60												
100	26	1.743e+04		0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06			9.16e-06	0.0	-3.31e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04												
100	40	2290.08		0.0	-0.15	53.55	0.0	2.40	2.09	-27.10	142.45	0.0
20.87			-236.33	-4501.46	0.39	0.0	158.0	2.40	55.64	-27.10	142.45	-4501.46
2290.08												
100	41	6170.71		4501.46	-0.03	53.55	0.0	-2.40	-2.09	27.10	-142.45	0.0
20.87			20.87	0.0	-0.39	0.0	158.0	-2.40	51.46	27.10	-142.45	4501.46
6170.71												
100	59	7769.09		0.0	0.34	53.55	0.0	-11.22	-25.50	-10.66	30.07	0.0
53.42			53.42	-950.20	0.07	0.0	158.0	-11.22	28.05	-10.66	30.07	-950.20
7769.09												
100	62	691.69		950.20	-0.51	53.55	0.0	11.22	25.50	10.66	-30.07	0.0
53.42			-768.51	0.0	-0.07	0.0	158.0	11.22	79.05	10.66	-30.07	950.20
691.69												
100	64	203.58		0.0	-0.48	53.55	0.0	10.76	22.41	-0.83	27.37	0.0
55.74			-983.67	-864.81	0.08	0.0	158.0	10.76	75.96	-0.83	27.37	-864.81
203.58												
100	65	8257.21		864.81	0.31	53.55	0.0	-10.76	-22.41	0.83	-27.37	0.0
55.74			55.74	0.0	-0.08	0.0	158.0	-10.76	31.14	0.83	-27.37	864.81
8257.21												
100	72	3601.85		0.0	-0.13	53.55	0.0	1.33	2.04	-12.78	65.85	0.0
8.34			-30.58	-2080.86	0.18	0.0	158.0	1.33	55.59	-12.78	65.85	-2080.86
3601.85												
100	73	4858.94		2080.86	-0.05	53.55	0.0	-1.33	-2.04	12.78	-65.85	0.0
8.34			8.34	0.0	-0.18	0.0	158.0	-1.33	51.51	12.78	-65.85	2080.86
4858.94												

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100 24.70	91	5769.71	0.0	0.09	53.55	0.0	-5.04	-10.33	-4.55	16.18	0.0		
		24.70	-511.26	0.04	0.0	158.0	-5.04	43.22	-4.55	16.18	-511.26		
5769.71 100 25.21	92	2599.29	0.0	-0.25	53.55	0.0	4.94	9.75	-3.24	22.74	0.0	-	
		-177.59	-718.60	0.07	0.0	158.0	4.94	63.30	-3.24	22.74	-718.60		
2599.29 100 25.21	93	5861.49	718.60	0.09	53.55	0.0	-4.94	-9.75	3.24	-22.74	0.0		
		25.21	0.0	-0.07	0.0	158.0	-4.94	43.80	3.24	-22.74	718.60		
5861.49 100 24.70	94	2691.08	511.26	-0.26	53.55	0.0	5.04	10.33	4.55	-16.18	0.0	-	
		-159.96	0.0	-0.04	0.0	158.0	5.04	63.88	4.55	-16.18	511.26		
2691.08 101 2.020e+04	2	2.020e+04	0.0	0.20	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
		0.0	0.0	2.50e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0 101 1523.05	3	1523.05	0.0	-0.17	24.90	0.0	0.0	-24.90	0.0	0.0	0.0		
		0.0	0.0	2.50e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0 101 324.29	7	0.0	0.0	-0.31	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
		-373.37	0.0	3.87e-05	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0 101 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0 101 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0 101 3614.62	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
		0.0	0.0	4.57e-06	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0 101 2425.50	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
		0.0	0.0	1.67e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0 101 1.403e+04	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
		0.0	0.0	1.67e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0 101 1193.94	27	1193.94	0.0	-0.18	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
		0.0	0.0	2.58e-05	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		
0.0 101 5973.37	48	5973.37	0.0	0.02	53.55	0.0	-5.29	-52.00	30.73	-143.01	-4854.78		
		26.43	-4854.78	-0.43	0.0	158.0	-5.29	1.55	30.73	-143.01	0.0		
26.43 101 2487.42	49	2487.42	4854.78	0.14	53.55	0.0	5.29	-55.10	-30.73	143.01	4854.78		
		-199.56	0.0	0.43	0.0	158.0	5.29	-1.55	-30.73	143.01	0.0	-	
26.43 101 7018.29	60	7018.29	0.0	-0.23	53.55	0.0	-15.48	-67.50	6.78	1.52	-1070.45		
		77.39	-1070.45	-0.09	0.0	158.0	-15.48	-13.95	6.78	1.52	0.0		
77.39 101 1442.50	61	1442.50	1070.45	0.39	53.55	0.0	15.48	-39.60	-6.78	-1.52	1070.45		
		-511.30	0.0	0.09	0.0	158.0	15.48	13.95	-6.78	-1.52	0.0	-	
77.39 101 7011.68	64	7011.68	0.0	-0.23	53.55	0.0	-15.49	-67.54	12.44	-26.80	-1965.29		
		77.44	-1965.29	-0.18	0.0	158.0	-15.49	-13.99	12.44	-26.80	0.0		
77.44 101 1449.11	65	1449.11	1965.29	0.39	53.55	0.0	15.49	-39.56	-12.44	26.80	1965.29		
		-509.27	0.0	0.18	0.0	158.0	15.49	13.99	-12.44	26.80	0.0	-	

77.44 101 4844.64	80	4844.64	0.0	0.05	53.55	0.0	-1.70	-53.69	13.59	-63.98	-2147.41
		8.52	-2147.41	-0.19	0.0	158.0	-1.70	-0.14	13.59	-63.98	0.0
8.52 101 3616.15	81	3616.15	2147.41	0.12	53.55	0.0	1.70	-53.40	-13.59	63.98	2147.41
		-29.85	0.0	0.19	0.0	158.0	1.70	0.14	-13.59	63.98	0.0
8.52 101 5379.66	92	5379.66	0.0	-0.05	53.55	0.0	-5.22	-59.71	2.93	-1.39	-462.45
		26.12	-462.45	-0.04	0.0	158.0	-5.22	-6.16	2.93	-1.39	0.0
26.12 101 3081.13	93	3081.13	462.45	0.22	53.55	0.0	5.22	-47.39	-2.93	1.39	462.45
		-100.41	0.0	0.04	0.0	158.0	5.22	6.16	-2.93	1.39	0.0
26.12 102 1.37e-05	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	2.50e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82 102 1.37e-05	2	2.530e+04	0.0	-0.70	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	2.50e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04 102 1.37e-05	3	6615.70	0.0	-0.33	73.24	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	2.50e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70 102 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39 102 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05 102 9.16e-06	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.67e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60 102 9.16e-06	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	1.67e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 102 26.52	39	5967.05	0.0	-0.04	53.55	0.0	-5.30	11.03	-30.75	142.87	0.0
		26.52	-4859.27	0.43	0.0	158.0	-5.30	64.58	-30.75	142.87	-4859.27
5967.05 102 26.52	42	2493.74	4859.27	-0.14	53.55	0.0	5.30	-11.03	30.75	-142.87	0.0
		-198.45	0.0	-0.43	0.0	158.0	5.30	42.52	30.75	-142.87	4859.27
2493.74 102 77.76	59	6990.62	0.0	0.23	53.55	0.0	-15.55	17.62	-12.53	26.33	0.0
		77.76	-1980.29	0.18	0.0	158.0	-15.55	71.17	-12.53	26.33	-1980.29
6990.62 102 77.76	62	1470.17	1980.29	-0.39	53.55	0.0	15.55	-17.62	12.53	-26.33	0.0
		-502.90	0.0	-0.18	0.0	158.0	15.55	35.93	12.53	-26.33	1980.29
1470.17 102 77.70	63	6997.23	0.0	0.23	53.55	0.0	-15.54	13.79	-6.87	-1.99	0.0
		77.70	-1085.45	0.09	0.0	158.0	-15.54	67.34	-6.87	-1.99	-1085.45
6997.23 102 77.70	66	1463.56	1085.45	-0.39	53.55	0.0	15.54	-13.79	6.87	1.99	0.0
		-504.93	0.0	-0.09	0.0	158.0	15.54	39.76	6.87	1.99	1085.45
1463.56 102 8.53	71	4844.38	0.0	-0.05	53.55	0.0	-1.71	3.89	-13.59	63.97	0.0
		8.53	-2147.69	0.19	0.0	158.0	-1.71	57.44	-13.59	63.97	-2147.69
4844.38 102 8.53	74	3616.41	2147.69	-0.12	53.55	0.0	1.71	-3.89	13.59	-63.97	0.0

LUMINORA LA FEUDALE SRL 				 WE ENGINEERING				CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture PAGE 255 di/of 308			
3616.41		-29.84	0.0	-0.19	0.0	158.0	1.71	49.65	13.59	-63.97	2147.69
102	95	5378.81	0.0	0.05	53.55	0.0	-5.23	6.15	-2.93	1.36	0.0
26.14		26.14	-463.41	0.04	0.0	158.0	-5.23	59.70	-2.93	1.36	-463.41
5378.81											
102	98	3081.98	463.41	-0.22	53.55	0.0	5.23	-6.15	2.93	-1.36	0.0 -
26.14		-100.32	0.0	-0.04	0.0	158.0	5.23	47.40	2.93	-1.36	463.41
3081.98											
103	1	2792.17	0.0	-0.15	40.96	0.0	0.0	-40.96	0.0	0.0	0.0
2792.17		0.0	0.0	7.46e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
103	2	2.020e+04	0.0	0.19	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	7.46e-04	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
103	4	1.894e+04	0.0	0.16	245.31	0.0	0.0	-245.31	0.0	0.0	0.0
1.894e+04		0.0	0.0	7.46e-04	0.0	158.0	0.0	-2.78e-06	0.0	0.0	0.0
0.0											
103	7	0.0	0.0	-0.33	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	1.16e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
103	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
103	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
103	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	1.37e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
103	25	2425.50	0.0	-0.09	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	4.97e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
103	26	1.403e+04	0.0	0.14	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	4.97e-04	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
103	27	1193.94	0.0	-0.19	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	7.70e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
103	47	2415.94	0.0	0.12	53.55	0.0	2.80	-51.02	28.51	-156.02	-4930.34
2415.94		-210.42	-4930.34	-0.44	0.0	158.0	2.80	2.53	28.51	-156.02	0.0 -
23.30											
103	50	6044.85	4930.34	0.05	53.55	0.0	-2.80	-56.08	-28.51	156.02	4930.34
6044.85		23.30	0.0	0.44	0.0	158.0	-2.80	-2.53	-28.51	156.02	0.0
23.30											
103	59	1541.98	0.0	0.38	53.55	0.0	12.76	-66.41	-1.28	-38.48	-1215.83
1541.98		-470.87	-1215.83	-0.11	0.0	158.0	12.76	-12.86	-1.28	-38.48	0.0 -
63.80											
103	62	6918.81	1215.83	-0.21	53.55	0.0	-12.76	-40.69	1.28	38.48	1215.83
6918.81		63.80	0.0	0.11	0.0	158.0	-12.76	12.86	1.28	38.48	0.0
63.80											
103	79	3593.54	0.0	0.11	53.55	0.0	1.27	-53.56	12.69	-68.78	-2173.45
3593.54		-30.87	-2173.45	-0.19	0.0	158.0	1.27	-9.45e-03	12.69	-68.78	0.0 -
8.10											
103	82	4867.25	2173.45	0.05	53.55	0.0	-1.27	-53.54	-12.69	68.78	2173.45
4867.25		8.10	0.0	0.19	0.0	158.0	-1.27	9.45e-03	-12.69	68.78	0.0
8.10											
103	91	3072.54	0.0	0.22	53.55	0.0	4.89	-59.69	-0.17	-16.83	-531.95

3072.54											
		-100.01	-531.95	-0.05	0.0	158.0	4.89	-6.14	-0.17	-16.83	0.0
24.43											
103	94	5388.25	531.95	-0.05	53.55	0.0	-4.89	-47.41	0.17	16.83	531.95
5388.25											
		24.43	0.0	0.05	0.0	158.0	-4.89	6.14	0.17	16.83	0.0
24.43											
104	1	7884.82	0.0	-0.36	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	7.46e-04	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
104	2	2.530e+04	0.0	-0.71	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	7.46e-04	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
104	4	2.403e+04	0.0	-0.68	293.65	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05											
		1.37e-05	0.0	7.46e-04	0.0	158.0	0.0	293.65	0.0	0.0	0.0
2.403e+04											
104	7	7564.34	0.0	-0.47	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05											
		2.29e-05	0.0	1.16e-03	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
104	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
104	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0											
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
104	23	4546.61	0.0	-0.13	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06											
		3.05e-06	0.0	1.37e-04	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
104	25	5820.60	0.0	-0.25	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	4.97e-04	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
104	26	1.743e+04	0.0	-0.48	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06											
		9.16e-06	0.0	4.97e-04	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
104	27	6453.02	0.0	-0.34	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05											
		1.53e-05	0.0	7.70e-04	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
104	40	2413.19	0.0	-0.12	53.55	0.0	2.80	11.54	-28.50	156.08	0.0
23.32											
		-210.95	-4931.97	0.44	0.0	158.0	2.80	65.09	-28.50	156.08	-4931.97
2413.19											
104	41	6047.60	4931.97	-0.06	53.55	0.0	-2.80	-11.54	28.50	-156.08	0.0
23.32											
		23.32	0.0	-0.44	0.0	158.0	-2.80	42.00	28.50	-156.08	4931.97
6047.60											
104	60	1539.16	0.0	-0.38	53.55	0.0	12.17	17.16	-4.44	67.39	0.0
63.62											
		-471.63	-2129.60	0.20	0.0	158.0	12.17	70.71	-4.44	67.39	-2129.60
1539.16											
104	63	6927.97	207.32	0.25	53.55	0.0	-12.77	-12.91	-7.73	-6.56	0.0
60.62											
		60.62	0.0	-0.04	0.0	158.0	-12.77	40.64	-7.73	-6.56	207.32
6927.97											
104	66	1532.82	0.0	-0.41	53.55	0.0	12.77	12.91	7.73	6.56	0.0
60.62											
		-471.54	-207.32	0.04	0.0	158.0	12.77	66.45	7.73	6.56	-207.32
1532.82											
104	72	3593.58	0.0	-0.11	53.55	0.0	1.28	4.04	-12.69	68.78	0.0
8.10											
		-30.87	-2173.38	0.19	0.0	158.0	1.28	57.59	-12.69	68.78	-2173.38
3593.58											
104	73	4867.21	2173.38	-0.06	53.55	0.0	-1.28	-4.04	12.69	-68.78	0.0
8.10											
		8.10	0.0	-0.19	0.0	158.0	-1.28	49.51	12.69	-68.78	2173.38
4867.21											

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104 24.38	92	3074.66	0.0	-0.22	53.55	0.0	4.77	7.36	-2.20	28.68	0.0	-	
		-99.70	-906.35	0.08	0.0	158.0	4.77	60.91	-2.20	28.68	-906.35		
3074.66													
104 23.81	95	5388.12	27.28	0.06	53.55	0.0	-4.89	-6.14	-3.37	-0.86	0.0		
		23.81	0.0	-0.01	0.0	158.0	-4.89	47.41	-3.37	-0.86	27.28		
5388.12													
104 23.81	98	3072.67	0.0	-0.23	53.55	0.0	4.89	6.14	3.37	0.86	0.0	-	
		-99.45	-27.28	0.01	0.0	158.0	4.89	59.69	3.37	0.86	-27.28		
3072.67													
105 2.020e+04	2	2.020e+04	0.0	0.14	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
		0.0	0.0	9.73e-05	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0													
105 1523.05	3	1523.05	0.0	-0.22	24.90	0.0	0.0	-24.90	0.0	0.0	0.0		
		0.0	0.0	9.73e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
105 324.29	7	0.0	0.0	-0.40	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
		-373.37	0.0	1.51e-04	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0													
105 4230.39	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
105 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0													
105 3614.62	23	3614.62	0.0	0.02	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
		0.0	0.0	1.78e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
105 2425.50	25	2425.50	0.0	-0.12	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
		0.0	0.0	6.49e-05	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
105 1.403e+04	26	1.403e+04	0.0	0.11	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
		0.0	0.0	6.49e-05	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0													
105 1193.94	27	1193.94	0.0	-0.24	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
		0.0	0.0	1.00e-04	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		
0.0													
105 6568.89	48	6568.89	0.0	0.08	53.55	0.0	-4.65	-38.74	33.72	-151.03	-5328.27		
		23.24	-5328.27	-0.49	0.0	158.0	-4.65	14.81	33.72	-151.03	0.0		
23.24													
105 1891.90	49	1891.90	5328.27	0.08	53.55	0.0	4.65	-68.36	-33.72	151.03	5328.27		
		-337.65	0.0	0.49	0.0	158.0	4.65	-14.81	-33.72	151.03	0.0	-	
23.24													
105 8078.53	60	8078.53	0.0	-0.25	53.55	0.0	-11.52	-29.19	8.86	14.34	-1399.20		
		57.58	-1399.20	-0.15	0.0	158.0	-11.52	24.36	8.86	14.34	0.0		
57.58													
105 382.26	61	382.26	1399.20	0.42	53.55	0.0	11.52	-77.91	-8.86	-14.34	1399.20		
		-906.22	0.0	0.15	0.0	158.0	11.52	-24.36	-8.86	-14.34	0.0	-	
57.58													
105 8074.41	64	8074.41	0.0	-0.25	53.55	0.0	-11.53	-29.22	15.45	-18.64	-2441.31		
		57.65	-2441.31	-0.26	0.0	158.0	-11.53	24.33	15.45	-18.64	0.0		
57.65													
105 386.38	65	386.38	2441.31	0.42	53.55	0.0	11.53	-77.88	-15.45	18.64	2441.31		
		-904.46	0.0	0.26	0.0	158.0	11.53	-24.33	-15.45	18.64	0.0	-	
57.65													
105 4988.22	80	4988.22	0.0	0.06	53.55	0.0	-1.78	-48.75	13.99	-65.58	-2210.42		
		8.92	-2210.42	-0.20	0.0	158.0	-1.78	4.80	13.99	-65.58	0.0		

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8.92 105 3472.57	81	3472.57	2210.42	0.11	53.55	0.0	1.78	-58.35	-13.99	65.58	2210.42		
		-39.20	0.0	0.20	0.0	158.0	1.78	-4.80	-13.99	65.58	0.0	-	
8.92 105 5873.09	96	5873.09	0.0	-0.08	53.55	0.0	-5.15	-43.15	5.52	-13.05	-872.46		
		25.73	-872.46	-0.09	0.0	158.0	-5.15	10.40	5.52	-13.05	0.0		
25.73 105 2587.70	97	2587.70	872.46	0.25	53.55	0.0	5.15	-63.95	-5.52	13.05	872.46		
		-180.18	0.0	0.09	0.0	158.0	5.15	-10.40	-5.52	13.05	0.0	-	
25.73 106 1.37e-05	1	7884.82	0.0	-0.41	89.31	0.0	0.0	0.0	0.0	0.0	0.0		
		1.37e-05	0.0	9.73e-05	0.0	158.0	0.0	89.31	0.0	0.0	0.0		
7884.82 106 1.37e-05	2	2.530e+04	0.0	-0.75	309.72	0.0	0.0	0.0	0.0	0.0	0.0		
		1.37e-05	0.0	9.73e-05	0.0	158.0	0.0	309.72	0.0	0.0	0.0		
2.530e+04 106 1.37e-05	3	6615.70	0.0	-0.38	73.24	0.0	0.0	0.0	0.0	0.0	0.0		
		1.37e-05	0.0	9.73e-05	0.0	158.0	0.0	73.24	0.0	0.0	0.0		
6615.70 106 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0		
4230.39 106 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0		
6552.05 106 9.16e-06	25	5820.60	0.0	-0.28	66.68	0.0	0.0	0.0	0.0	0.0	0.0		
		9.16e-06	0.0	6.49e-05	0.0	158.0	0.0	66.68	0.0	0.0	0.0		
5820.60 106 9.16e-06	26	1.743e+04	0.0	-0.51	213.62	0.0	0.0	0.0	0.0	0.0	0.0		
		9.16e-06	0.0	6.49e-05	0.0	158.0	0.0	213.62	0.0	0.0	0.0		
1.743e+04 106 23.22	39	6570.77	0.0	-0.09	53.55	0.0	-4.64	-14.82	-33.77	150.81	0.0		
		23.22	-5335.30	0.50	0.0	158.0	-4.64	38.73	-33.77	150.81	-5335.30		
6570.77 106 23.22	42	1890.02	5335.30	-0.08	53.55	0.0	4.64	14.82	33.77	-150.81	0.0	-	
		-338.11	0.0	-0.50	0.0	158.0	4.64	68.37	33.77	-150.81	5335.30		
1890.02 106 57.58	59	8080.68	0.0	0.25	53.55	0.0	-11.52	-24.37	-15.60	17.90	0.0		
		57.58	-2464.75	0.26	0.0	158.0	-11.52	29.18	-15.60	17.90	-2464.75		
8080.68 106 57.58	62	380.11	2464.75	-0.42	53.55	0.0	11.52	24.37	15.60	-17.90	0.0	-	
		-907.17	0.0	-0.26	0.0	158.0	11.52	77.92	15.60	-17.90	2464.75		
380.11 106 57.52	63	8084.80	0.0	0.25	53.55	0.0	-11.50	-19.39	-9.00	-15.08	0.0		
		57.52	-1422.63	0.16	0.0	158.0	-11.50	34.16	-9.00	-15.08	-1422.63		
8084.80 106 57.52	66	375.99	1422.63	-0.42	53.55	0.0	11.50	19.39	9.00	15.08	0.0	-	
		-908.93	0.0	-0.16	0.0	158.0	11.50	72.94	9.00	15.08	1422.63		
375.99 106 8.92	71	4988.05	0.0	-0.06	53.55	0.0	-1.78	-4.80	-13.99	65.57	0.0		
		8.92	-2210.78	0.20	0.0	158.0	-1.78	48.75	-13.99	65.57	-2210.78		
4988.05 106 8.92	74	3472.74	2210.78	-0.11	53.55	0.0	1.78	4.80	13.99	-65.57	0.0	-	
		-39.19	0.0	-0.20	0.0	158.0	1.78	58.35	13.99	-65.57	2210.78		
3472.74 106 25.73	91	5872.51	0.0	0.08	53.55	0.0	-5.15	-10.40	-5.53	13.01	0.0		

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5872.51		25.73	-873.66	0.09	0.0	158.0	-5.15	43.15	-5.53	13.01	-873.66		
106	94	2588.28	873.66	-0.25	53.55	0.0	5.15	10.40	5.53	-13.01	0.0	-	
25.73		-180.07	0.0	-0.09	0.0	158.0	5.15	63.95	5.53	-13.01	873.66		
2588.28													
107	2	2.020e+04	0.0	0.27	261.37	0.0	0.0	-261.37	0.0	0.0	0.0		
2.020e+04		0.0	0.0	-2.15e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0		
0.0													
107	3	1523.05	0.0	-0.10	24.90	0.0	0.0	-24.90	0.0	0.0	0.0		
1523.05		0.0	0.0	-2.15e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
107	7	0.0	0.0	-0.20	4.04	0.0	0.0	-4.04	0.0	0.0	0.0	-	
324.29		-373.37	0.0	-3.34e-03	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0		
0.0													
107	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0		
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
107	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0		
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0		
0.0													
107	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0		
3614.62		0.0	0.0	-3.94e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
107	25	2425.50	0.0	-0.04	34.45	0.0	0.0	-34.45	0.0	0.0	0.0		
2425.50		0.0	0.0	-1.44e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0		
0.0													
107	26	1.403e+04	0.0	0.19	181.39	0.0	0.0	-181.39	0.0	0.0	0.0		
1.403e+04		0.0	0.0	-1.44e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0		
0.0													
107	27	1193.94	0.0	-0.11	20.54	0.0	0.0	-20.54	0.0	0.0	0.0		
1193.94		0.0	0.0	-2.22e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0		
0.0													
107	48	5896.64	0.0	0.10	53.55	0.0	-7.13	-54.36	36.03	-180.16	-6824.79		
5896.64		35.64	-6824.79	-0.67	0.0	158.0	-7.13	-0.81	36.03	-180.16	0.0		
35.64													
107	49	2564.15	6824.79	0.07	53.55	0.0	7.13	-52.74	-36.03	180.16	6824.79		
2564.15		-192.65	0.0	0.67	0.0	158.0	7.13	0.81	-36.03	180.16	0.0	-	
35.64													
107	64	7452.43	0.0	-0.11	53.55	0.0	-17.31	-71.16	-0.05	0.27	-3763.99		
7452.43		86.56	-3763.99	-0.43	0.0	158.0	-17.31	-17.61	-0.05	0.27	0.0		
86.56													
107	65	1008.36	3763.99	0.27	53.55	0.0	17.31	-35.94	0.05	-0.27	3763.99		
1008.36		-667.46	0.0	0.43	0.0	158.0	17.31	17.61	0.05	-0.27	0.0	-	
86.56													
107	80	4852.18	0.0	0.07	53.55	0.0	-2.08	-54.86	14.14	-70.71	-2515.23		
4852.18		10.41	-2515.23	-0.23	0.0	158.0	-2.08	-1.31	14.14	-70.71	0.0		
10.41													
107	81	3608.60	2515.23	0.09	53.55	0.0	2.08	-52.23	-14.14	70.71	2515.23		
3608.60		-32.09	0.0	0.23	0.0	158.0	2.08	1.31	-14.14	70.71	0.0	-	
10.41													
107	96	5673.84	0.0	-0.03	53.55	0.0	-5.32	-61.95	1.55	-7.73	-1180.49		
5673.84		26.60	-1180.49	-0.13	0.0	158.0	-5.32	-8.40	1.55	-7.73	0.0		
26.60													
107	97	2786.95	1180.49	0.18	53.55	0.0	5.32	-45.15	-1.55	7.73	1180.49		
2786.95		-143.53	0.0	0.13	0.0	158.0	5.32	8.40	-1.55	7.73	0.0	-	
26.60													
108	1	7884.82	0.0	-0.29	89.31	0.0	0.0	0.0	0.0	0.0	0.0		

[illegible]

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109 6552.05	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0 109 3614.62	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
		0.0	0.0	-9.01e-04	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 109 2425.50	25	2425.50	0.0	-0.11	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
		0.0	0.0	-3.28e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0 109 1.403e+04	26	1.403e+04	0.0	0.12	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
		0.0	0.0	-3.28e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0 109 1193.94	27	1193.94	0.0	-0.21	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
		0.0	0.0	-5.08e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0 109 1576.40	47	1576.40	0.0	-1.15e-03	53.55	0.0	-0.73	-70.42	39.08	-195.38	-6173.99
		-442.09	-6173.99	-0.59	0.0	158.0	-0.73	-16.87	39.08	-195.38	0.0 -
37.59 109 6884.38	50	6884.38	6173.99	0.17	53.55	0.0	0.73	-36.68	-39.08	195.38	6173.99
		37.59	0.0	0.59	0.0	158.0	0.73	16.87	-39.08	195.38	0.0
37.59 109 1057.20	63	1057.20	0.0	0.30	53.55	0.0	10.07	-73.69	19.18	-95.90	-3030.53
		-634.26	-3030.53	-0.32	0.0	158.0	10.07	-20.14	19.18	-95.90	0.0 -
62.74 109 6281.37	64	6281.37	0.0	-0.23	53.55	0.0	-12.55	-40.55	2.79	-13.95	-440.79
		50.36	-440.79	-3.54e-03	0.0	158.0	-12.55	13.00	2.79	-13.95	0.0
50.36 109 2179.42	65	2179.42	440.79	0.40	53.55	0.0	12.55	-66.55	-2.79	13.95	440.79
		-286.11	0.0	3.54e-03	0.0	158.0	12.55	-13.00	-2.79	13.95	0.0 -
50.36 109 7403.59	66	7403.59	3030.53	-0.14	53.55	0.0	-10.07	-33.41	-19.18	95.90	3030.53
		62.74	0.0	0.32	0.0	158.0	-10.07	20.14	-19.18	95.90	0.0
62.74 109 3327.42	79	3327.42	0.0	0.08	53.55	0.0	0.46	-59.28	15.25	-76.24	-2409.26
		-58.37	-2409.26	-0.22	0.0	158.0	0.46	-5.74	15.25	-76.24	0.0 -
13.26 109 5133.37	82	5133.37	2409.26	0.09	53.55	0.0	-0.46	-47.81	-15.25	76.24	2409.26
		13.26	0.0	0.22	0.0	158.0	-0.46	5.74	-15.25	76.24	0.0
13.26 109 2836.11	91	2836.11	0.0	0.21	53.55	0.0	4.86	-60.34	4.03	-20.16	-637.16
		-135.11	-637.16	-0.06	0.0	158.0	4.86	-6.79	4.03	-20.16	0.0 -
27.58 109 5624.68	94	5624.68	637.16	-0.04	53.55	0.0	-4.86	-46.75	-4.03	20.16	637.16
		27.58	0.0	0.06	0.0	158.0	-4.86	6.79	-4.03	20.16	0.0
27.58 109 5303.84	96	5303.84	0.0	-0.07	53.55	0.0	-5.52	-46.75	1.87	-9.35	-295.34
		24.29	-295.34	-0.02	0.0	158.0	-5.52	6.80	1.87	-9.35	0.0
24.29 109 3156.95	97	3156.95	295.34	0.24	53.55	0.0	5.52	-60.35	-1.87	9.35	295.34
		-89.34	0.0	0.02	0.0	158.0	5.52	-6.80	-1.87	9.35	0.0 -
24.29 110 1.37e-05	1	7884.82	0.0	-0.39	89.31	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.92e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82 110 1.37e-05	2	2.530e+04	0.0	-0.73	309.72	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.92e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0

2.530e+04 110 1.37e-05	3	6615.70	0.0	-0.36	73.24	0.0	0.0	0.0	0.0	0.0	0.0
		1.37e-05	0.0	-4.92e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70 110 0.0	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39 110 0.0	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05 110 9.16e-06	25	5820.60	0.0	-0.27	66.68	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-3.28e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60 110 9.16e-06	26	1.743e+04	0.0	-0.50	213.62	0.0	0.0	0.0	0.0	0.0	0.0
		9.16e-06	0.0	-3.28e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04 110 37.63	40	1574.74	0.0	1.83e-03	53.55	0.0	-0.72	-6.92	-39.08	195.39	0.0
		-442.64	-6174.39	0.59	0.0	158.0	-0.72	46.63	-39.08	195.39	-6174.39
1574.74 110 37.63	41	6886.05	6174.39	-0.17	53.55	0.0	0.72	6.92	39.08	-195.39	0.0
		37.63	0.0	-0.59	0.0	158.0	0.72	60.47	39.08	-195.39	6174.39
6886.05 110 50.49	59	6286.92	0.0	0.24	53.55	0.0	-12.57	-20.16	-2.78	13.91	0.0
		50.49	-439.45	5.85e-03	0.0	158.0	-12.57	33.38	-2.78	13.91	-439.45
6286.92 110 62.86	60	1051.65	0.0	-0.30	53.55	0.0	10.10	13.03	-19.19	95.95	0.0
		-636.42	-3031.86	0.32	0.0	158.0	10.10	66.57	-19.19	95.95	-3031.86
1051.65 110 62.86	61	7409.14	3031.86	0.14	53.55	0.0	-10.10	-13.03	19.19	-95.95	0.0
		62.86	0.0	-0.32	0.0	158.0	-10.10	40.52	19.19	-95.95	3031.86
7409.14 110 50.49	62	2173.87	439.45	-0.40	53.55	0.0	12.57	20.16	2.78	-13.91	0.0
		-287.60	0.0	-5.85e-03	0.0	158.0	12.57	73.71	2.78	-13.91	439.45
2173.87 110 13.27	72	3326.82	0.0	-0.08	53.55	0.0	0.46	-1.04	-15.25	76.25	0.0
		-58.45	-2409.40	0.22	0.0	158.0	0.46	52.51	-15.25	76.25	-2409.40
3326.82 110 13.27	73	5133.97	2409.40	-0.09	53.55	0.0	-0.46	1.04	15.25	-76.25	0.0
		13.27	0.0	-0.22	0.0	158.0	-0.46	54.59	15.25	-76.25	2409.40
5133.97 110 24.31	91	5305.85	0.0	0.07	53.55	0.0	-5.52	-8.85	-1.87	9.33	0.0
		24.31	-294.86	0.02	0.0	158.0	-5.52	44.70	-1.87	9.33	-294.86
5305.85 110 24.31	94	3154.94	294.86	-0.24	53.55	0.0	5.52	8.85	1.87	-9.33	0.0
		-89.60	0.0	-0.02	0.0	158.0	5.52	62.40	1.87	-9.33	294.86
3154.94 110 27.59	96	2834.09	0.0	-0.21	53.55	0.0	4.86	8.85	-4.04	20.18	0.0
		-135.50	-637.63	0.06	0.0	158.0	4.86	62.40	-4.04	20.18	-637.63
2834.09 110 27.59	97	5626.70	637.63	0.04	53.55	0.0	-4.86	-8.85	4.04	-20.18	0.0
		27.59	0.0	-0.06	0.0	158.0	-4.86	44.69	4.04	-20.18	637.63
5626.70 111 2.020e+04	2	2.020e+04	0.0	0.18	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
		0.0	0.0	-6.46e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0 111 1523.05	3	1523.05	0.0	-0.19	24.90	0.0	0.0	-24.90	0.0	0.0	0.0

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		0.0	0.0	-6.46e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
111	7	0.0	0.0	-0.34	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29											
		-373.37	0.0	-0.01	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
111	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39											
		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
111	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05											
		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
111	23	3614.62	0.0	0.03	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62											
		0.0	0.0	-1.18e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
111	25	2425.50	0.0	-0.10	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50											
		0.0	0.0	-4.31e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
111	26	1.403e+04	0.0	0.13	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04											
		0.0	0.0	-4.31e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
111	27	1193.94	0.0	-0.20	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94											
		0.0	0.0	-6.68e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
111	48	6978.44	0.0	0.18	53.55	0.0	-8.22	-60.72	20.79	-129.51	-4092.45
6978.44											
		41.12	-4092.45	-0.37	0.0	158.0	-8.22	-7.17	20.79	-129.51	0.0
41.12											
111	49	1482.35	4092.45	-0.02	53.55	0.0	8.22	-46.38	-20.79	129.51	4092.45
1482.35											
		-473.91	0.0	0.37	0.0	158.0	8.22	7.17	-20.79	129.51	0.0 -
41.12											
111	60	7470.35	0.0	-0.12	53.55	0.0	-15.08	-39.76	-4.62	-62.11	-1962.56
7470.35											
		75.42	-1962.56	-0.24	0.0	158.0	-15.08	13.79	-4.62	-62.11	0.0
75.42											
111	61	990.44	1962.56	0.28	53.55	0.0	15.08	-67.34	4.62	62.11	1962.56
990.44											
		-667.22	0.0	0.24	0.0	158.0	15.08	-13.79	4.62	62.11	0.0 -
75.42											
111	64	7526.59	0.0	-0.11	53.55	0.0	-15.08	-40.12	-1.52	-77.62	-2452.76
7526.59											
		75.39	-2452.76	-0.28	0.0	158.0	-15.08	13.43	-1.52	-77.62	0.0
75.39											
111	65	934.20	2452.76	0.27	53.55	0.0	15.08	-66.98	1.52	77.62	2452.76
934.20											
		-688.29	0.0	0.28	0.0	158.0	15.08	-13.43	1.52	77.62	0.0 -
75.39											
111	80	5244.78	0.0	0.10	53.55	0.0	-2.73	-55.40	10.25	-61.12	-1931.40
5244.78											
		13.64	-1931.40	-0.18	0.0	158.0	-2.73	-1.85	10.25	-61.12	0.0
13.64											
111	81	3216.01	1931.40	0.07	53.55	0.0	2.73	-51.70	-10.25	61.12	1931.40
3216.01											
		-72.63	0.0	0.18	0.0	158.0	2.73	1.85	-10.25	61.12	0.0 -
13.64											
111	92	5623.80	0.0	-0.03	53.55	0.0	-5.59	-47.06	-1.58	-25.05	-791.45
5623.80											
		27.94	-791.45	-0.10	0.0	158.0	-5.59	6.48	-1.58	-25.05	0.0
27.94											
111	93	2836.99	791.45	0.19	53.55	0.0	5.59	-60.03	1.58	25.05	791.45
2836.99											
		-135.24	0.0	0.10	0.0	158.0	5.59	-6.48	1.58	25.05	0.0 -
27.94											
111	96	5635.71	0.0	-0.03	53.55	0.0	-5.59	-47.14	0.08	-33.33	-1053.24
5635.71											
		27.93	-1053.24	-0.12	0.0	158.0	-5.59	6.41	0.08	-33.33	0.0
27.93											
111	97	2825.08	1053.24	0.19	53.55	0.0	5.59	-59.96	-0.08	33.33	1053.24

2825.08											
		-137.46	0.0	0.12	0.0	158.0	5.59	-6.41	-0.08	33.33	0.0
27.93											
112	1	7884.82	0.0	-0.37	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.46e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
112	2	2.530e+04	0.0	-0.71	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.46e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
112	3	6615.70	0.0	-0.35	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.46e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
112	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
112	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
112	25	5820.60	0.0	-0.26	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-4.31e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
112	26	1.743e+04	0.0	-0.49	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-4.31e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
112	39	6972.59	0.0	-0.18	53.55	0.0	-8.20	7.20	-25.87	104.10	0.0
41.01		41.01	-4087.77	0.37	0.0	158.0	-8.20	60.75	-25.87	104.10	-4087.77
6972.59											
112	42	1488.20	4087.77	0.02	53.55	0.0	8.20	-7.20	25.87	-104.10	0.0
41.01		-472.01	0.0	-0.37	0.0	158.0	8.20	46.35	25.87	-104.10	4087.77
1488.20											
112	59	7507.09	0.0	0.11	53.55	0.0	-15.01	-13.33	-15.42	-7.09	0.0
75.05		75.05	-2437.14	0.28	0.0	158.0	-15.01	40.22	-15.42	-7.09	-2437.14
7507.09											
112	62	953.70	2437.14	-0.28	53.55	0.0	15.01	13.33	15.42	7.09	0.0
75.05		-680.77	0.0	-0.28	0.0	158.0	15.01	66.88	15.42	7.09	2437.14
953.70											
112	63	7450.85	0.0	0.12	53.55	0.0	-15.02	-13.69	-12.32	-22.60	0.0
75.08		75.08	-1946.94	0.24	0.0	158.0	-15.02	39.86	-12.32	-22.60	-1946.94
7450.85											
112	66	1009.94	1946.94	-0.28	53.55	0.0	15.02	13.69	12.32	22.60	0.0
75.08		-659.70	0.0	-0.24	0.0	158.0	15.02	67.24	12.32	22.60	1946.94
1009.94											
112	71	5244.97	0.0	-0.10	53.55	0.0	-2.73	1.84	-12.22	51.24	0.0
13.63		13.63	-1931.29	0.18	0.0	158.0	-2.73	55.39	-12.22	51.24	-1931.29
5244.97											
112	74	3215.82	1931.29	-0.07	53.55	0.0	2.73	-1.84	12.22	-51.24	0.0
13.63		-72.65	0.0	-0.18	0.0	158.0	2.73	51.71	12.22	-51.24	1931.29
3215.82											
112	91	5636.34	0.0	0.03	53.55	0.0	-5.58	-6.41	-6.66	0.39	0.0
27.88		27.88	-1052.87	0.12	0.0	158.0	-5.58	47.13	-6.66	0.39	-1052.87
5636.34											
112	94	2824.45	1052.87	-0.19	53.55	0.0	5.58	6.41	6.66	-0.39	0.0
27.88		-137.54	0.0	-0.12	0.0	158.0	5.58	59.96	6.66	-0.39	1052.87
2824.45											
112	95	5624.43	0.0	0.03	53.55	0.0	-5.58	-6.49	-5.01	-7.90	0.0
27.90		27.90	-791.08	0.10	0.0	158.0	-5.58	47.06	-5.01	-7.90	-791.08
5624.43											

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112	98	2836.36	791.08	-0.19	53.55	0.0	5.58	6.49	5.01	7.90	0.0 -
27.90		-135.33	0.0	-0.10	0.0	158.0	5.58	60.04	5.01	7.90	791.08
2836.36											
113	2	2.020e+04	0.0	0.28	261.37	0.0	0.0	-261.37	0.0	0.0	0.0
2.020e+04		0.0	0.0	-6.80e-03	0.0	158.0	0.0	-3.07e-06	0.0	0.0	0.0
0.0											
113	3	1523.05	0.0	-0.08	24.90	0.0	0.0	-24.90	0.0	0.0	0.0
1523.05		0.0	0.0	-6.80e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	6	9651.03	0.0	-0.02	130.31	0.0	0.0	-130.31	0.0	0.0	0.0
9651.03		0.0	0.0	-0.01	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	7	0.0	0.0	-0.18	4.04	0.0	0.0	-4.04	0.0	0.0	0.0 -
324.29		-373.37	0.0	-0.01	0.0	158.0	0.0	2.16e-06	0.0	0.0	0.0
0.0											
113	21	4230.39	0.0	0.08	53.55	0.0	0.0	-53.55	0.0	0.0	0.0
4230.39		0.0	0.0	0.0	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	22	6552.05	0.0	0.13	82.94	0.0	0.0	-82.94	0.0	0.0	0.0
6552.05		0.0	0.0	0.0	0.0	158.0	0.0	-1.45e-06	0.0	0.0	0.0
0.0											
113	23	3614.62	0.0	0.05	46.60	0.0	0.0	-46.60	0.0	0.0	0.0
3614.62		0.0	0.0	-1.24e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	25	2425.50	0.0	-0.03	34.45	0.0	0.0	-34.45	0.0	0.0	0.0
2425.50		0.0	0.0	-4.53e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	26	1.403e+04	0.0	0.20	181.39	0.0	0.0	-181.39	0.0	0.0	0.0
1.403e+04		0.0	0.0	-4.53e-03	0.0	158.0	0.0	-2.18e-06	0.0	0.0	0.0
0.0											
113	27	1193.94	0.0	-0.09	20.54	0.0	0.0	-20.54	0.0	0.0	0.0
1193.94		0.0	0.0	-7.02e-03	0.0	158.0	0.0	1.12e-06	0.0	0.0	0.0
0.0											
113	28	6998.07	0.0	0.02	94.01	0.0	0.0	-94.01	0.0	0.0	0.0
6998.07		0.0	0.0	-7.02e-03	0.0	158.0	0.0	0.0	0.0	0.0	0.0
0.0											
113	48	6477.96	0.0	-0.06	53.55	0.0	-8.62	-67.80	21.43	-107.15	-5115.86
6477.96		8.48	-5115.86	-0.53	0.0	158.0	-8.62	-14.25	21.43	-107.15	0.0
8.48											
113	49	1982.83	5115.86	0.22	53.55	0.0	8.62	-39.30	-21.43	107.15	5115.86
1982.83		-303.85	0.0	0.53	0.0	158.0	8.62	14.25	-21.43	107.15	0.0 -
8.48											
113	59	1228.80	1922.65	0.22	53.55	0.0	16.16	-34.62	24.32	-121.62	1922.65
1228.80		-587.68	0.0	0.34	0.0	158.0	16.16	18.93	24.32	-121.62	0.0 -
91.16											
113	64	7236.68	0.0	-0.11	53.55	0.0	-18.23	-72.50	-10.18	50.88	-4158.24
7236.68		80.78	-4158.24	-0.55	0.0	158.0	-18.23	-18.95	-10.18	50.88	0.0
80.78											
113	65	1224.11	4158.24	0.28	53.55	0.0	18.23	-34.59	10.18	-50.88	4158.24
1224.11		-582.95	0.0	0.55	0.0	158.0	18.23	18.95	10.18	-50.88	0.0 -
80.78											
113	80	5056.09	0.0	0.03	53.55	0.0	-2.90	-58.80	9.29	-46.45	-2076.35
5056.09		0.77	-2076.35	-0.22	0.0	158.0	-2.90	-5.25	9.29	-46.45	0.0
0.77											
113	81	3404.70	2076.35	0.14	53.55	0.0	2.90	-48.30	-9.29	46.45	2076.35
3404.70		-37.79	0.0	0.22	0.0	158.0	2.90	5.25	-9.29	46.45	0.0 -

0.77											
113	91	3021.00	662.34	0.15	53.55	0.0	4.68	-45.88	8.65	-43.24	662.34
3021.00		-109.15	0.0	0.12	0.0	158.0	4.68	7.67	8.65	-43.24	0.0
27.52											
113	96	5441.35	0.0	-0.02	53.55	0.0	-5.50	-61.23	-3.06	15.28	-1546.04
5441.35		23.40	-1546.04	-0.20	0.0	158.0	-5.50	-7.68	-3.06	15.28	0.0
23.40											
113	97	3019.44	1546.04	0.17	53.55	0.0	5.50	-45.87	3.06	-15.28	1546.04
3019.44		-105.75	0.0	0.20	0.0	158.0	5.50	7.68	3.06	-15.28	0.0
23.40											
114	1	7884.82	0.0	-0.27	89.31	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.80e-03	0.0	158.0	0.0	89.31	0.0	0.0	0.0
7884.82											
114	2	2.530e+04	0.0	-0.61	309.72	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.80e-03	0.0	158.0	0.0	309.72	0.0	0.0	0.0
2.530e+04											
114	3	6615.70	0.0	-0.25	73.24	0.0	0.0	0.0	0.0	0.0	0.0
1.37e-05		1.37e-05	0.0	-6.80e-03	0.0	158.0	0.0	73.24	0.0	0.0	0.0
6615.70											
114	7	7564.34	0.0	-0.33	78.93	0.0	0.0	0.0	0.0	0.0	0.0
2.29e-05		2.29e-05	0.0	-0.01	0.0	158.0	0.0	78.93	0.0	0.0	0.0
7564.34											
114	21	4230.39	0.0	-0.08	53.55	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	53.55	0.0	0.0	0.0
4230.39											
114	22	6552.05	0.0	-0.13	82.94	0.0	0.0	0.0	0.0	0.0	0.0
0.0		0.0	0.0	0.0	0.0	158.0	0.0	82.94	0.0	0.0	0.0
6552.05											
114	23	4546.61	0.0	-0.11	55.45	0.0	0.0	0.0	0.0	0.0	0.0
3.05e-06		3.05e-06	0.0	-1.24e-03	0.0	158.0	0.0	55.45	0.0	0.0	0.0
4546.61											
114	25	5820.60	0.0	-0.19	66.68	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-4.53e-03	0.0	158.0	0.0	66.68	0.0	0.0	0.0
5820.60											
114	26	1.743e+04	0.0	-0.42	213.62	0.0	0.0	0.0	0.0	0.0	0.0
9.16e-06		9.16e-06	0.0	-4.53e-03	0.0	158.0	0.0	213.62	0.0	0.0	0.0
1.743e+04											
114	27	6453.02	0.0	-0.25	70.47	0.0	0.0	0.0	0.0	0.0	0.0
1.53e-05		1.53e-05	0.0	-7.02e-03	0.0	158.0	0.0	70.47	0.0	0.0	0.0
6453.02											
114	39	6471.62	0.0	0.06	53.55	0.0	-8.47	14.21	-21.42	161.94	0.0
7.71		7.71	-5117.33	0.53	0.0	158.0	-8.47	67.76	-21.42	161.94	-5117.33
6471.62											
114	42	1989.17	5117.33	-0.22	53.55	0.0	8.47	-14.21	21.42	-161.94	0.0
7.71		-301.69	0.0	-0.53	0.0	158.0	8.47	39.34	21.42	-161.94	5117.33
1989.17											
114	59	7215.54	0.0	0.11	53.55	0.0	-17.72	18.84	10.21	131.75	0.0
78.21		78.21	-4163.17	0.55	0.0	158.0	-17.72	72.38	10.21	131.75	-4163.17
7215.54											
114	62	1245.25	4163.17	-0.28	53.55	0.0	17.72	-18.84	-10.21	-131.75	0.0
78.21		-573.50	0.0	-0.55	0.0	158.0	17.72	34.71	-10.21	-131.75	4163.17
1245.25											
114	64	1249.94	1927.58	-0.22	53.55	0.0	15.64	-18.81	-24.36	-61.00	0.0
88.59		-579.17	0.0	-0.34	0.0	158.0	15.64	34.74	-24.36	-61.00	1927.58
1249.94											
114	71	5055.67	0.0	-0.04	53.55	0.0	-2.89	5.25	-9.29	65.71	0.0
0.70											

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5055.67		0.70	-2076.39	0.22	0.0	158.0	-2.89	58.80	-9.29	65.71	-2076.39		
114	74	3405.12	2076.39	-0.14	53.55	0.0	2.89	-5.25	9.29	-65.71	0.0	-	
0.70		-37.67	0.0	-0.22	0.0	158.0	2.89	48.30	9.29	-65.71	2076.39		
3405.12													
114	91	5439.97	0.0	-0.02	53.55	0.0	-5.46	7.67	3.06	48.93	0.0		
23.16		23.16	-1546.17	0.20	0.0	158.0	-5.46	61.22	3.06	48.93	-1546.17		
5439.97													
114	94	3020.82	1546.17	-0.17	53.55	0.0	5.46	-7.67	-3.06	-48.93	0.0	-	
23.16		-105.36	0.0	-0.20	0.0	158.0	5.46	45.88	-3.06	-48.93	1546.17		
3020.82													
114	96	3022.39	662.47	-0.15	53.55	0.0	4.63	-7.66	-8.65	-20.96	0.0	-	
27.28		-108.77	0.0	-0.12	0.0	158.0	4.63	45.89	-8.65	-20.96	662.47		
3022.39													
115	2	-105.92	4.765e+04	-2.38e-03	0.0	0.0	-141.16	-0.46	588.42	-4680.73	-2.214e+04	-	
105.92		-159.57	-2.214e+04	-0.16	26.47	116.0	-141.16	-0.46	614.89	-4680.73	4.765e+04	-	
159.57													
115	5	-164.07	1.167e+04	-3.69e-03	0.0	0.0	-36.95	-0.72	131.26	-7250.54	-5093.44	-	
164.07		-247.17	-5093.44	-0.04	26.47	116.0	-36.95	-0.72	157.73	-7250.54	1.167e+04	-	
247.17													
115	7	-164.07	8536.03	-3.69e-03	0.0	0.0	-27.15	-0.72	95.39	-7250.54	-3709.90	-	
164.07		-247.17	-3709.90	-0.03	20.36	116.0	-27.15	-0.72	115.75	-7250.54	8536.03	-	
247.17													
115	22	0.0	1.508e+04	0.0	0.0	0.0	-46.10	0.0	178.50	0.0	-6808.90	-	
0.0		0.0	-6808.90	-0.05	20.36	116.0	-46.10	0.0	198.86	0.0	1.508e+04	-	
115	23	-19.38	1.004e+04	-4.36e-04	0.0	0.0	-31.51	-0.08	114.51	-856.60	-4422.78	-	
19.38		-29.20	-4422.78	-0.03	20.36	116.0	-31.51	-0.08	134.87	-856.60	1.004e+04	-	
29.20													
115	26	-70.61	3.316e+04	-1.59e-03	0.0	0.0	-98.46	-0.31	408.23	-3120.49	-1.537e+04	-	
70.61		-106.38	-1.537e+04	-0.11	20.36	116.0	-98.46	-0.31	428.59	-3120.49	3.316e+04	-	
106.38													
115	27	-109.38	9170.70	-2.46e-03	0.0	0.0	-28.99	-0.48	103.45	-4833.70	-4010.53	-	
109.38		-164.78	-4010.53	-0.03	20.36	116.0	-28.99	-0.48	123.81	-4833.70	9170.70	-	
164.78													
115	39	3950.61	1.672e+04	0.05	0.0	0.0	-86.82	-52.29	160.56	-4214.80	-2672.06	-	
3950.61		-2906.83	-2672.06	-0.03	20.36	116.0	-86.82	-52.29	180.92	-4214.80	1.672e+04	-	
2906.83													
115	40	1382.33	1.678e+04	0.04	0.0	0.0	-85.35	-16.11	159.69	-1698.60	-2634.34	-	
1382.33		-604.21	-2634.34	-0.03	20.36	116.0	-85.35	-16.11	180.05	-1698.60	1.678e+04	-	
604.21													
115	41	604.21	4095.67	-0.04	0.0	0.0	20.02	16.11	79.46	1698.60	-6589.22	-	
1382.33		-1382.33	-6589.22	-0.04	20.36	116.0	20.02	16.11	99.82	1698.60	4095.67	-	
604.21													
115	42	2906.83	4163.36	-0.05	0.0	0.0	21.49	52.29	78.59	4214.80	-6551.51	-	
3950.61		-3950.61	-6551.51	-0.04	20.36	116.0	21.49	52.29	98.95	4214.80	4163.36	-	
2906.83													
115	59	5080.41	1.222e+04	0.03	0.0	0.0	-51.15	-70.57	133.19	-5080.68	-4087.07	-	
5080.41		-4364.36	-4087.07	-0.03	20.36	116.0	-51.15	-70.57	153.56	-5080.68	1.222e+04	-	
4364.36													
115	62	4364.36	8659.69	-0.03	0.0	0.0	-14.18	70.57	105.96	5080.68	-5136.49	-	
5080.41		-5080.41	-5136.49	-0.04	20.36	116.0	-14.18	70.57	126.32	5080.68	8659.69	-	
4364.36													
115	71	1591.34	1.347e+04	0.01	0.0	0.0	-54.94	-23.68	138.87	-1636.70	-3774.55	-	
1591.34		-1258.19	-3774.55	-0.03	20.36	116.0	-54.94	-23.68	159.23	-1636.70	1.347e+04	-	
1258.19													
115	72	591.85	1.348e+04	0.01	0.0	0.0	-54.69	-6.48	138.73	-364.05	-3768.55	-	

591.85												
156.37		-156.37	-3768.55	-0.03	20.36	116.0	-54.69	-6.48	159.09	-364.05	1.348e+04	-
115	73	156.37	7400.34	-0.01	0.0	0.0	-10.64	6.48	100.43	364.05	-5455.02	-
591.85		-591.85	-5455.02	-0.04	20.36	116.0	-10.64	6.48	120.79	364.05	7400.34	
156.37												
115	74	1258.19	7411.05	-0.01	0.0	0.0	-10.39	23.68	100.29	1636.70	-5449.02	-
1591.34		-1591.34	-5449.02	-0.04	20.36	116.0	-10.39	23.68	120.65	1636.70	7411.05	
1258.19												
115	91	1993.29	1.133e+04	9.61e-03	0.0	0.0	-39.72	-33.19	125.57	-2421.20	-4369.71	
1993.29		-2048.55	-4369.71	-0.03	20.36	116.0	-39.72	-33.19	145.93	-2421.20	1.133e+04	-
2048.55												
115	94	2048.55	9547.58	-9.61e-03	0.0	0.0	-25.61	33.19	113.58	2421.20	-4853.85	-
1993.29		-1993.29	-4853.85	-0.04	20.36	116.0	-25.61	33.19	133.94	2421.20	9547.58	
2048.55												
116	2	148.59	4.571e+04	-1.53e-03	0.0	0.0	-103.35	0.61	1005.56	-8811.70	2.757e+04	
137.68		137.68	2.757e+04	-6.18e-03	4.11	18.0	-103.35	0.61	1009.67	-8811.70	4.571e+04	
148.59												
116	5	230.17	1.108e+04	-2.37e-03	0.0	0.0	-26.97	0.94	231.31	-1.365e+04	6879.14	
213.27		213.27	6879.14	-1.51e-03	4.11	18.0	-26.97	0.94	235.42	-1.365e+04	1.108e+04	
230.17												
116	7	230.17	8100.00	-2.37e-03	0.0	0.0	-19.82	0.94	168.48	-1.365e+04	5038.95	
213.27		213.27	5038.95	-1.10e-03	3.16	18.0	-19.82	0.94	171.64	-1.365e+04	8100.00	
230.17												
116	22	0.0	1.440e+04	0.0	0.0	0.0	-33.70	0.0	309.24	0.0	8801.60	
0.0		0.0	8801.60	-1.95e-03	3.16	18.0	-33.70	0.0	312.40	0.0	1.440e+04	
116	23	27.19	9548.40	-2.79e-04	0.0	0.0	-23.01	0.11	200.86	-1612.60	5904.50	
25.20		25.20	5904.50	-1.30e-03	3.16	18.0	-23.01	0.11	204.02	-1612.60	9548.40	
27.19												
116	26	99.06	3.180e+04	-1.02e-03	0.0	0.0	-72.08	0.40	698.30	-5874.47	1.920e+04	
91.79		91.79	1.920e+04	-4.30e-03	3.16	18.0	-72.08	0.40	701.46	-5874.47	3.180e+04	
99.06												
116	27	153.45	8710.80	-1.58e-03	0.0	0.0	-21.16	0.63	182.13	-9099.66	5403.96	
142.18		142.18	5403.96	-1.19e-03	3.16	18.0	-21.16	0.63	185.29	-9099.66	8710.80	
153.45												
116	39	-32.79	1.645e+04	-6.63e-03	0.0	0.0	-102.90	-48.38	252.27	604.43	1.196e+04	-
32.79		-834.84	1.196e+04	4.75e-03	3.16	18.0	-102.90	-48.38	255.43	604.43	1.645e+04	-
834.84												
116	42	834.84	3413.30	6.63e-03	0.0	0.0	55.18	48.38	166.62	-604.43	306.23	
32.79		32.79	306.23	-7.45e-03	3.16	18.0	55.18	48.38	169.78	-604.43	3413.30	
834.84												
116	52	2917.34	1.174e+04	-3.21e-03	0.0	0.0	-45.17	38.53	218.47	-5759.65	7792.09	
2290.62		2290.62	7792.09	5.57e-04	3.16	18.0	-45.17	38.53	221.63	-5759.65	1.174e+04	
2917.34												
116	53	-2290.62	8126.17	3.21e-03	0.0	0.0	-2.55	-38.53	200.42	5759.65	4475.85	-
2290.62		-2917.34	4475.85	-3.26e-03	3.16	18.0	-2.55	-38.53	203.58	5759.65	8126.17	-
2917.34												
116	71	-42.32	1.298e+04	-1.87e-03	0.0	0.0	-60.94	-23.14	227.40	644.72	8864.82	-
42.32		-442.86	8864.82	1.61e-03	3.16	18.0	-60.94	-23.14	230.56	644.72	1.298e+04	-
442.86												
116	74	442.86	6886.14	1.87e-03	0.0	0.0	13.23	23.14	191.49	-644.72	3403.12	
42.32		42.32	3403.12	-4.31e-03	3.16	18.0	13.23	23.14	194.65	-644.72	6886.14	
442.86												
116	84	1500.30	1.083e+04	-1.03e-03	0.0	0.0	-34.51	20.84	214.33	-2784.38	6939.51	
1151.15		1151.15	6939.51	-6.22e-04	3.16	18.0	-34.51	20.84	217.49	-2784.38	1.083e+04	
1500.30												

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116	85	-1151.15	9039.64	1.03e-03	0.0	0.0	-13.20	-20.84	204.56	2784.38	5328.43	-	
1151.15													
1500.30		-1500.30	5328.43	-2.25e-03	3.16	18.0	-13.20	-20.84	207.72	2784.38	9039.64	-	
117	2	-53.34	4.941e+04	-4.91e-03	0.0	0.0	-107.88	-0.15	789.12	-6756.88	-1560.32	-	
53.34													
62.82		-62.82	-1560.32	-0.06	14.60	64.0	-107.88	-0.15	803.72	-6756.88	4.941e+04	-	
117	5	-82.63	1.183e+04	-7.60e-03	0.0	0.0	-28.06	-0.23	179.31	-1.047e+04	-117.41	-	
82.63													
97.32		-97.32	-117.41	-0.02	14.60	64.0	-28.06	-0.23	193.92	-1.047e+04	1.183e+04	-	
117	7	-82.63	8638.04	-7.60e-03	0.0	0.0	-20.61	-0.23	130.49	-1.047e+04	-72.69	-	
82.63													
97.32		-97.32	-72.69	-0.01	11.23	64.0	-20.61	-0.23	141.72	-1.047e+04	8638.04	-	
117	22	0.0	1.547e+04	0.0	0.0	0.0	-35.12	0.0	241.36	0.0	-335.03		
0.0													
0.0		0.0	-335.03	-0.02	11.23	64.0	-35.12	0.0	252.59	0.0	1.547e+04		
117	23	-9.76	1.021e+04	-8.98e-04	0.0	0.0	-23.95	-0.03	155.99	-1236.55	-133.04	-	
9.76													
11.50		-11.50	-133.04	-0.01	11.23	64.0	-23.95	-0.03	167.23	-1236.55	1.021e+04	-	
117	26	-35.56	3.436e+04	-3.27e-03	0.0	0.0	-75.23	-0.10	547.78	-4504.59	-1060.08	-	
35.56													
41.88		-41.88	-1060.08	-0.05	11.23	64.0	-75.23	-0.10	559.01	-4504.59	3.436e+04	-	
117	27	-55.09	9300.92	-5.07e-03	0.0	0.0	-22.02	-0.15	141.24	-6977.69	-98.14	-	
55.09													
64.88		-64.88	-98.14	-0.01	11.23	64.0	-22.02	-0.15	152.48	-6977.69	9300.92	-	
117	39	2603.44	1.601e+04	0.01	0.0	0.0	-95.06	-50.02	194.58	2306.63	3349.41		
2603.44													
0.02		0.02	3349.41	-6.76e-03	11.23	64.0	-95.06	-50.02	205.81	2306.63	1.601e+04		
117	40	1815.58	1.615e+04	3.69e-03	0.0	0.0	-91.00	-18.57	196.31	-1191.66	3274.40		
1815.58													
1608.84		1608.84	3274.40	-7.04e-03	11.23	64.0	-91.00	-18.57	207.54	-1191.66	1.615e+04		
117	42	-0.02	5245.79	-0.01	0.0	0.0	45.39	50.02	130.93	-2306.63	-3647.48	-	
2603.44													
0.02		-2603.44	-3647.48	-0.02	11.23	64.0	45.39	50.02	142.16	-2306.63	5245.79	-	
117	60	2922.68	1.250e+04	-0.01	0.0	0.0	-38.54	42.11	175.44	-5663.24	764.22	-	
650.26													
2922.68		-650.26	764.22	-0.01	11.23	64.0	-38.54	42.11	186.67	-5663.24	1.250e+04		
117	61	650.26	8754.96	0.01	0.0	0.0	-11.13	-42.11	150.07	5663.24	-1062.30		
650.26													
2922.68		-2922.68	-1062.30	-0.02	11.23	64.0	-11.13	-42.11	161.30	5663.24	8754.96	-	
117	71	1181.66	1.323e+04	4.18e-03	0.0	0.0	-55.46	-22.51	177.98	943.06	1509.38		
1181.66													
180.62		-180.62	1509.38	-9.83e-03	11.23	64.0	-55.46	-22.51	189.22	943.06	1.323e+04	-	
117	72	887.55	1.326e+04	5.28e-04	0.0	0.0	-54.71	-7.06	178.34	-709.18	1496.63		
887.55													
646.00		646.00	1496.63	-9.90e-03	11.23	64.0	-54.71	-7.06	189.57	-709.18	1.326e+04		
117	74	180.62	8020.04	-4.18e-03	0.0	0.0	5.80	22.51	147.53	-943.06	-1807.46	-	
1181.66													
180.62		-1181.66	-1807.46	-0.02	11.23	64.0	5.80	22.51	158.76	-943.06	8020.04		
117	92	1447.50	1.145e+04	-5.38e-03	0.0	0.0	-32.66	21.30	167.97	-2718.66	325.32	-	
179.81													
1447.50		-179.81	325.32	-0.01	11.23	64.0	-32.66	21.30	179.21	-2718.66	1.145e+04		
117	93	179.81	9800.75	5.38e-03	0.0	0.0	-17.00	-21.30	157.53	2718.66	-623.40		
179.81													
1447.50		-1447.50	-623.40	-0.02	11.23	64.0	-17.00	-21.30	168.77	2718.66	9800.75	-	
118	2	-10.89	4.539e+04	-5.40e-03	0.0	0.0	-106.04	0.01	582.88	-5060.50	-2.011e+04	-	
12.15													
		-12.15	-2.011e+04	-0.13	25.10	110.0	-106.04	0.01	607.98	-5060.50	4.539e+04	-	

10.89 118 12.15	3	-10.89	9199.68	-5.40e-03	0.0	0.0	-23.12	0.01	109.07	-5060.50	-3860.25	-
10.89 118 18.82	6	-12.15	-3860.25	-0.03	19.31	110.0	-23.12	0.01	128.38	-5060.50	9199.68	-
16.88 118 18.82	6	-16.88	2.763e+04	-8.36e-03	0.0	0.0	-65.68	0.02	348.59	-7838.81	-1.209e+04	-
16.88 118 18.82	7	-18.82	-1.209e+04	-0.08	25.10	110.0	-65.68	0.02	373.69	-7838.81	2.763e+04	-
16.88 118 0.0	7	-16.88	8056.32	-8.36e-03	0.0	0.0	-20.52	0.02	93.99	-7838.81	-3344.24	-
0.0 118 0.0	21	-18.82	-3344.24	-0.02	19.31	110.0	-20.52	0.02	113.30	-7838.81	8056.32	-
0.0 118 0.0	21	0.0	9874.99	0.0	0.0	0.0	-24.65	0.0	117.98	0.0	-4165.02	-
0.0 118 0.0	22	0.0	-4165.02	-0.03	19.31	110.0	-24.65	0.0	137.29	0.0	9874.99	-
0.0 118 2.22	22	0.0	1.431e+04	0.0	0.0	0.0	-34.72	0.0	176.44	0.0	-6164.55	-
1.99 118 8.10	23	0.0	-6164.55	-0.04	19.31	110.0	-34.72	0.0	195.75	0.0	1.431e+04	-
7.26 118 8.10	23	-1.99	9493.86	-9.88e-04	0.0	0.0	-23.79	2.09e-03	112.95	-926.10	-3993.02	-
7.26 118 12.55	25	-2.22	-3993.02	-0.03	19.31	110.0	-23.79	2.09e-03	132.26	-926.10	9493.86	-
11.25 118 12.55	25	-7.26	9424.78	-3.60e-03	0.0	0.0	-23.63	7.60e-03	112.04	-3373.67	-3961.84	-
11.25 118 12.55	26	-8.10	-3961.84	-0.03	19.31	110.0	-23.63	7.60e-03	131.35	-3373.67	9424.78	-
2282.68 118 1426.50	26	-7.26	3.158e+04	-3.60e-03	0.0	0.0	-73.98	7.60e-03	404.32	-3373.67	-1.396e+04	-
277.69 118 2678.29	27	-8.10	-1.396e+04	-0.09	19.31	110.0	-73.98	7.60e-03	423.63	-3373.67	3.158e+04	-
2282.68 118 1426.50	27	-11.25	8662.54	-5.58e-03	0.0	0.0	-21.90	0.01	101.99	-5225.88	-3617.83	-
277.69 118 2678.29	28	-12.55	-3617.83	-0.03	19.31	110.0	-21.90	0.01	121.29	-5225.88	8662.54	-
2282.68 118 1426.50	28	-11.25	1.974e+04	-5.58e-03	0.0	0.0	-47.07	0.01	248.12	-5225.88	-8616.67	-
277.69 118 2678.29	39	-12.55	-8616.67	-0.06	19.31	110.0	-47.07	0.01	267.43	-5225.88	1.974e+04	-
2282.68 118 1426.50	39	2678.29	1.565e+04	3.66e-03	0.0	0.0	-79.83	-43.60	153.13	1107.70	-2146.06	-
277.69 118 2678.29	41	-2282.68	-2146.06	-0.02	19.31	110.0	-79.83	-43.60	172.44	1107.70	1.565e+04	-
2282.68 118 1426.50	41	277.69	4394.66	4.74e-03	0.0	0.0	23.64	16.14	87.25	2271.47	-6380.14	-
277.69 118 2678.29	42	-1426.50	-6380.14	-0.04	19.31	110.0	23.64	16.14	106.56	2271.47	4394.66	-
2282.68 118 2702.05	42	2282.68	4104.76	-3.66e-03	0.0	0.0	30.53	43.60	82.84	-1107.70	-6183.98	-
3725.70 118 2702.05	59	-2678.29	-6183.98	-0.04	19.31	110.0	30.53	43.60	102.14	-1107.70	4104.76	-
3725.70 118 2702.05	59	2702.05	1.205e+04	0.01	0.0	0.0	-51.65	-54.71	135.22	5457.39	-3856.84	-
1071.63 118 681.33	62	-3725.70	-3856.84	-0.03	19.31	110.0	-51.65	-54.71	154.53	5457.39	1.205e+04	-
1071.63 118 681.33	62	3725.70	7704.24	-0.01	0.0	0.0	2.35	54.71	100.74	-5457.39	-4473.20	-
140.22 118 1203.25	71	-2702.05	-4473.20	-0.03	19.31	110.0	2.35	54.71	120.05	-5457.39	7704.24	-
140.22 118 1203.25	71	1203.25	1.260e+04	1.81e-03	0.0	0.0	-47.12	-20.31	134.12	653.50	-3193.94	-
1071.63 118 681.33	73	-1071.63	-3193.94	-0.03	19.31	110.0	-47.12	-20.31	153.43	653.50	1.260e+04	-
1071.63 118 681.33	73	140.22	7191.64	2.06e-03	0.0	0.0	-3.31	7.81	102.52	818.40	-5166.35	-
1071.63 118 681.33	74	-681.33	-5166.35	-0.03	19.31	110.0	-3.31	7.81	121.83	818.40	7191.64	-
1071.63 118 681.33	74	1071.63	7147.30	-1.81e-03	0.0	0.0	-2.19	20.31	101.84	-653.50	-5136.10	-
1071.63 118 681.33	91	-1203.25	-5136.10	-0.03	19.31	110.0	-2.19	20.31	121.15	-653.50	7147.30	-
1071.63 118 681.33	91	1152.56	1.076e+04	6.41e-03	0.0	0.0	-33.09	-25.04	123.85	2428.42	-3919.58	-

			-1734.13	-3919.58	-0.03	19.31	110.0	-33.09	-25.04	143.16	2428.42	1.076e+04	-
1734.13			1734.13	8989.44	-6.41e-03	0.0	0.0	-16.21	25.04	112.11	-2428.42	-4410.46	-
118	94		-1152.56	-4410.46	-0.03	19.31	110.0	-16.21	25.04	131.42	-2428.42	8989.44	-
1152.56			-10.67	4.673e+04	-1.86e-03	0.0	0.0	-118.16	-0.18	977.78	-8453.88	2.320e+04	-
1734.13		2	-15.05	2.320e+04	-0.01	5.48	24.0	-118.16	-0.18	983.25	-8453.88	4.673e+04	-
119			-16.52	8255.21	-2.88e-03	0.0	0.0	-22.52	-0.28	163.63	-1.310e+04	4277.43	-
10.67			-23.31	4277.43	-2.00e-03	4.21	24.0	-22.52	-0.28	167.85	-1.310e+04	8255.21	-
15.05			0.0	1.470e+04	0.0	0.0	0.0	-38.43	0.0	300.55	0.0	7434.41	-
119			0.0	7434.41	-3.57e-03	4.21	24.0	-38.43	0.0	304.77	0.0	1.470e+04	-
16.52			-1.95	9737.35	-3.40e-04	0.0	0.0	-26.18	-0.03	195.13	-1547.12	5003.65	-
23.31			-2.75	5003.65	-2.36e-03	4.21	24.0	-26.18	-0.03	199.34	-1547.12	9737.35	-
119			-7.11	3.251e+04	-1.24e-03	0.0	0.0	-82.40	-0.12	678.98	-5635.92	1.616e+04	-
0.0			-10.03	1.616e+04	-7.91e-03	4.21	24.0	-82.40	-0.12	683.19	-5635.92	3.251e+04	-
119			-11.02	8880.24	-1.92e-03	0.0	0.0	-24.06	-0.19	176.92	-8730.15	4583.68	-
1.95			-15.54	4583.68	-2.15e-03	4.21	24.0	-24.06	-0.19	181.13	-8730.15	8880.24	-
2.75			1342.75	1.576e+04	-0.01	0.0	0.0	-113.10	-52.87	239.44	1114.51	1.004e+04	-
119			191.59	1.004e+04	3.86e-03	4.21	24.0	-113.10	-52.87	243.65	1114.51	1.576e+04	-
1342.75			-191.59	4495.93	0.01	0.0	0.0	58.80	52.87	167.52	-1114.51	355.06	-
191.59			-1342.75	355.06	-8.77e-03	4.21	24.0	58.80	52.87	171.74	-1114.51	4495.93	-
119			3951.28	1.135e+04	-8.41e-03	0.0	0.0	-37.87	61.86	205.84	-8386.24	6348.94	-
2736.26			2736.26	6348.94	-1.05e-03	4.21	24.0	-37.87	61.86	210.05	-8386.24	1.135e+04	-
3951.28			-2736.26	8909.95	8.41e-03	0.0	0.0	-16.44	-61.86	201.12	8386.24	4043.43	-
119			-3951.28	4043.43	-4.20e-03	4.21	24.0	-16.44	-61.86	205.33	8386.24	8909.95	-
2736.26			655.22	1.279e+04	-2.76e-03	0.0	0.0	-63.19	-24.07	219.63	828.18	7477.57	-
3951.28			93.42	7477.57	5.49e-04	4.21	24.0	-63.19	-24.07	223.84	828.18	1.279e+04	-
119			-93.42	7471.52	2.76e-03	0.0	0.0	8.89	24.07	187.34	-828.18	2914.80	-
655.22			-655.22	2914.80	-5.46e-03	4.21	24.0	8.89	24.07	191.55	-828.18	7471.52	-
93.42			1799.42	1.086e+04	-2.29e-03	0.0	0.0	-35.55	28.85	206.84	-3523.78	5833.53	-
119			1153.75	5833.53	-1.66e-03	4.21	24.0	-35.55	28.85	211.05	-3523.78	1.086e+04	-
1153.75			-1153.75	9404.16	2.29e-03	0.0	0.0	-18.75	-28.85	200.12	3523.78	4558.84	-
1799.42			-1799.42	4558.84	-3.33e-03	4.21	24.0	-18.75	-28.85	204.33	3523.78	9404.16	-
119			48.99	4.911e+04	-4.60e-03	0.0	0.0	-122.11	0.59	759.08	-6461.75	-4586.81	-
120			7.45	-4586.81	-0.07	15.97	70.0	-122.11	0.59	775.05	-6461.75	4.911e+04	-
7.45			7.45	-4586.81	-0.07	15.97	70.0	-122.11	0.59	775.05	-6461.75	4.911e+04	-
48.99			75.89	1.175e+04	-7.12e-03	0.0	0.0	-31.73	0.92	172.03	-1.001e+04	-846.52	-
120			11.54	-846.52	-0.02	15.97	70.0	-31.73	0.92	188.00	-1.001e+04	1.175e+04	-
11.54			75.89	8585.86	-7.12e-03	0.0	0.0	-23.30	0.92	125.16	-1.001e+04	-605.50	-
75.89			11.54	-605.50	-0.01	12.29	70.0	-23.30	0.92	137.45	-1.001e+04	8585.86	-
120			0.0	1.538e+04	0.0	0.0	0.0	-39.73	0.0	231.89	0.0	-1285.52	-
75.89	22		0.0	1.538e+04	0.0	0.0	0.0	-39.73	0.0	231.89	0.0	-1285.52	-

0.0		0.0	-1285.52	-0.02	12.29	70.0	-39.73	0.0	244.18	0.0	1.538e+04
0.0	23	8.97	1.015e+04	-8.41e-04	0.0	0.0	-27.08	0.11	149.71	-1182.54	-761.93
120		1.36	-761.93	-0.02	12.29	70.0	-27.08	0.11	162.00	-1182.54	1.015e+04
1.36	26	32.66	3.415e+04	-3.06e-03	0.0	0.0	-85.15	0.40	526.88	-4307.84	-3164.99
8.97		4.97	-3164.99	-0.05	12.29	70.0	-85.15	0.40	539.17	-4307.84	3.415e+04
120	27	50.59	9244.66	-4.75e-03	0.0	0.0	-24.90	0.61	135.52	-6672.92	-671.47
4.97		7.69	-671.47	-0.01	12.29	70.0	-24.90	0.61	147.80	-6672.92	9244.66
32.66	39	2826.58	1.606e+04	-3.63e-03	0.0	0.0	-99.60	-61.69	188.77	4131.87	2497.78
120		-1739.45	2497.78	-8.32e-03	12.29	70.0	-99.60	-61.69	201.05	4131.87	1.606e+04
2826.58	40	2021.61	1.616e+04	-0.01	0.0	0.0	-93.92	-17.93	189.42	501.39	2562.49
1739.45		791.58	2562.49	-8.30e-03	12.29	70.0	-93.92	-17.93	201.71	501.39	1.616e+04
120	41	-791.58	4960.38	0.01	0.0	0.0	37.75	17.93	123.02	-501.39	-4169.29
2021.61		-2021.61	-4169.29	-0.03	12.29	70.0	37.75	17.93	135.31	-501.39	4960.38
791.58	42	1739.45	5065.16	3.63e-03	0.0	0.0	43.43	61.69	123.68	-4131.87	-4104.58
120		-2826.58	-4104.58	-0.03	12.29	70.0	43.43	61.69	135.97	-4131.87	5065.16
2021.61	59	2068.84	1.205e+04	9.53e-03	0.0	0.0	-58.16	-84.89	164.99	6745.79	88.81
791.58		-4360.57	88.81	-0.01	12.29	70.0	-58.16	-84.89	177.27	6745.79	1.205e+04
120	62	4360.57	9072.04	-9.53e-03	0.0	0.0	1.99	84.89	147.46	-6745.79	-1695.62
2068.84		-2068.84	-1695.62	-0.02	12.29	70.0	1.99	84.89	159.75	-6745.79	9072.04
4360.57	71	1146.32	1.319e+04	7.77e-04	0.0	0.0	-56.66	-25.15	171.38	1394.70	778.68
120		-694.77	778.68	-0.01	12.29	70.0	-56.66	-25.15	183.66	1394.70	1.319e+04
2068.84	72	890.55	1.321e+04	-2.50e-03	0.0	0.0	-55.74	-7.01	171.50	-354.43	788.49
4360.57		445.91	788.49	-0.01	12.29	70.0	-55.74	-7.01	183.78	-354.43	1.321e+04
120	73	-445.91	7919.43	2.50e-03	0.0	0.0	-0.43	7.01	140.95	354.43	-2395.29
2068.84		-890.55	-2395.29	-0.02	12.29	70.0	-0.43	7.01	153.24	354.43	7919.43
4360.57	74	694.77	7936.69	-7.77e-04	0.0	0.0	0.49	25.15	141.07	-1394.70	-2385.48
120		-1146.32	-2385.48	-0.02	12.29	70.0	0.49	25.15	153.35	-1394.70	7936.69
1146.32	91	731.82	1.132e+04	5.20e-03	0.0	0.0	-38.05	-35.06	160.59	3071.25	-343.65
694.77		-1938.46	-343.65	-0.01	12.29	70.0	-38.05	-35.06	172.88	3071.25	1.132e+04
120	94	1938.46	9800.75	-5.20e-03	0.0	0.0	-18.12	35.06	151.86	-3071.25	-1263.15
731.82		-731.82	-1263.15	-0.02	12.29	70.0	-18.12	35.06	164.14	-3071.25	9800.75
1938.46	1	-6.94	0.0	-4.83e-03	-6.85	0.0	0.0	-132.05	0.0	-5092.66	0.0
121		-4071.11	0.0	-1.67e-04	0.0	30.0	0.0	-138.89	0.0	-5092.66	0.0
6.94	2	-6.94	0.0	-0.02	-6.85	0.0	0.0	-572.87	0.0	-5092.66	0.0
4071.11		-1.730e+04	0.0	-1.67e-04	0.0	30.0	0.0	-579.71	0.0	-5092.66	0.0
121	5	-6.94	0.0	-4.45e-03	-6.85	0.0	0.0	-116.88	0.0	-7888.62	0.0
6.94		-3616.07	0.0	-2.58e-04	0.0	30.0	0.0	-123.73	0.0	-7888.62	0.0
3616.07											

121 5.34	7	-5.34	0.0	-3.28e-03	-5.27	0.0	0.0	-84.34	0.0	-7888.62	0.0	-
		-2614.56	0.0	-2.58e-04	0.0	30.0	0.0	-89.61	0.0	-7888.62	0.0	-
2614.56 121 5.34	21	-5.34	0.0	-3.89e-03	-5.27	0.0	0.0	-108.47	0.0	0.0	0.0	-
		-3338.36	0.0	0.0	0.0	30.0	0.0	-113.73	0.0	0.0	0.0	-
3338.36 121 5.34	22	-5.34	0.0	-5.38e-03	-5.27	0.0	0.0	-167.24	0.0	0.0	0.0	-
		-5101.64	0.0	0.0	0.0	30.0	0.0	-172.51	0.0	0.0	0.0	-
5101.64 121 5.34	23	-5.34	0.0	-3.76e-03	-5.27	0.0	0.0	-103.41	0.0	-931.99	0.0	-
		-3186.68	0.0	-3.05e-05	0.0	30.0	0.0	-108.68	0.0	-931.99	0.0	-
3186.68 121 5.34	25	-5.34	0.0	-3.74e-03	-5.27	0.0	0.0	-102.50	0.0	-3395.10	0.0	-
		-3159.19	0.0	-1.11e-04	0.0	30.0	0.0	-107.76	0.0	-3395.10	0.0	-
3159.19 121 5.34	26	-5.34	0.0	-0.01	-5.27	0.0	0.0	-396.38	0.0	-3395.10	0.0	-
		-1.198e+04	0.0	-1.11e-04	0.0	30.0	0.0	-401.64	0.0	-3395.10	0.0	-
1.198e+04 121 5.34	27	-5.34	0.0	-3.48e-03	-5.27	0.0	0.0	-92.38	0.0	-5259.08	0.0	-
		-2855.83	0.0	-1.72e-04	0.0	30.0	0.0	-97.65	0.0	-5259.08	0.0	-
2855.83 121 274.06	39	274.06	2967.25	-0.02	-5.27	0.0	-46.46	-124.00	-26.39	-355.37	2789.94	
		-2602.54	2789.94	-2.12e-03	0.0	30.0	-46.46	-129.27	-26.39	-355.37	2967.25	-
2602.54 121 284.73	42	-284.73	-2789.94	9.97e-03	-5.27	0.0	46.46	-92.94	26.39	355.37	-2789.94	-
		-4074.17	-2967.25	2.12e-03	0.0	30.0	46.46	-98.20	26.39	355.37	-2967.25	-
4074.17 121 54.08	60	54.08	7699.50	-8.39e-03	-5.27	0.0	-10.13	-122.45	35.88	-5687.50	7126.81	
		-3420.92	7126.81	-0.01	0.0	30.0	-10.13	-127.71	35.88	-5687.50	7699.50	-
3420.92 121 64.76	61	-64.76	-7126.81	6.34e-04	-5.27	0.0	10.13	-94.49	-35.88	5687.50	-7126.81	-
		-3255.80	-7699.50	0.01	0.0	30.0	10.13	-99.76	-35.88	5687.50	-7699.50	-
3255.80 121 113.24	71	113.24	1262.08	-0.01	-5.27	0.0	-19.74	-113.51	-10.81	-86.66	1190.61	
		-3099.12	1190.61	-4.26e-03	0.0	30.0	-19.74	-118.78	-10.81	-86.66	1262.08	-
3099.12 121 123.92	74	-123.92	-1190.61	2.77e-03	-5.27	0.0	19.74	-103.43	10.81	86.66	-1190.61	-
		-3577.59	-1262.08	4.26e-03	0.0	30.0	19.74	-108.69	10.81	86.66	-1262.08	-
3577.59 121 26.47	92	26.47	2833.82	-5.94e-03	-5.27	0.0	-5.33	-111.44	15.23	-2358.82	2569.04	
		-3313.85	2569.04	-2.18e-03	0.0	30.0	-5.33	-116.70	15.23	-2358.82	2833.82	-
3313.85 121 37.15	93	-37.15	-2569.04	-1.84e-03	-5.27	0.0	5.33	-105.50	-15.23	2358.82	-2569.04	-
		-3362.87	-2833.82	2.18e-03	0.0	30.0	5.33	-110.76	-15.23	2358.82	-2833.82	-
3362.87 122 44.87	2	-44.87	-2.214e+04	5.36e-03	0.0	0.0	-141.16	-0.46	-12.79	411.93	-2.244e+04	-
		-105.92	-2.280e+04	0.05	30.12	132.0	-141.16	-0.46	17.33	411.93	-2.214e+04	-
105.92 122 69.50	5	-69.50	-5093.44	8.31e-03	0.0	0.0	-36.95	-0.72	-13.96	638.08	-5238.52	-
		-164.07	-5664.27	0.01	30.12	132.0	-36.95	-0.72	16.16	638.08	-5093.44	-
164.07 122 69.50	7	-69.50	-3709.90	8.31e-03	0.0	0.0	-27.15	-0.72	-10.75	638.08	-3819.61	-
		-164.07	-4147.94	8.72e-03	23.17	132.0	-27.15	-0.72	12.42	638.08	-3709.90	-
164.07 122 0.0	22	0.0	-6808.90	0.0	0.0	0.0	-46.10	0.0	-10.54	0.0	-6946.77	
		0.0	-7262.77	0.02	23.17	132.0	-46.10	0.0	12.63	0.0	-6808.90	

0.0 122 8.21	23	-8.21	-4422.78	9.81e-04	0.0	0.0	-31.51	-0.08	-10.70	75.39	-4538.97	-
19.38 122 29.91	26	-29.91	-1.537e+04	3.57e-03	0.0	0.0	-98.46	-0.31	-9.95	274.62	-1.559e+04	-
70.61 122 46.33	27	-46.33	-4010.53	5.54e-03	0.0	0.0	-28.99	-0.48	-10.73	425.39	-4122.97	-
109.38 122 7377.93	39	7377.93	-2397.50	-6.42e-03	0.0	0.0	8.25	-45.79	33.17	-1502.76	-8351.28	-
4032.85 122 2836.47	40	2836.47	-2359.53	8.14e-03	0.0	0.0	9.78	-27.99	32.47	-3.43	-8284.82	-
7354.67 122 2836.47	41	7354.67	-1174.56	-8.14e-03	0.0	0.0	-75.11	27.99	-53.85	3.43	-1174.56	-
7354.67 122 7377.93	42	4032.85	-1108.11	6.42e-03	0.0	0.0	-73.59	45.79	-54.55	1502.76	-1108.11	-
4032.85 122 9101.26	59	9101.26	-4005.08	-0.02	0.0	0.0	-22.70	-40.73	3.52	-2724.81	-5916.96	-
3828.24 122 9101.26	62	-3828.24	-3542.43	0.02	0.0	0.0	-42.64	40.73	-24.91	2724.81	-3542.43	-
3828.24 122 2607.47	71	2607.47	-3640.24	-2.53e-03	0.0	0.0	-19.89	-19.38	9.50	-546.24	-6429.67	-
1148.61 122 980.10	72	980.10	-3634.20	4.21e-03	0.0	0.0	-19.64	-12.79	9.39	-70.48	-6419.69	-
2240.65 122 980.10	73	2240.65	-3039.69	-4.21e-03	0.0	0.0	-45.69	12.79	-30.78	70.48	-3039.69	-
2240.65 122 2607.47	74	1148.61	-3029.71	2.53e-03	0.0	0.0	-45.44	19.38	-30.88	546.24	-3029.71	-
1148.61 122 3250.42	91	3250.42	-4329.49	-0.01	0.0	0.0	-29.22	-15.81	-4.47	-885.43	-5254.82	-
1311.69 122 3250.42	94	-1311.69	-4204.56	0.01	0.0	0.0	-36.12	15.81	-16.91	885.43	-4204.56	-
1311.69 123 57.66	2	137.68	2.757e+04	-5.90e-03	0.0	0.0	-103.35	0.61	404.35	-3719.04	-2.779e+04	-
137.68 123 89.32	7	213.27	5038.95	-9.14e-03	0.0	0.0	-19.82	0.94	62.34	-5760.87	-4718.73	-
213.27 123 0.0	22	0.0	8801.60	0.0	0.0	0.0	-33.70	0.0	120.20	0.0	-8593.88	-
0.0 123 10.55	23	25.20	5904.50	-1.08e-03	0.0	0.0	-23.01	0.11	75.65	-680.61	-5610.15	-

25.20		10.55	-5610.15	-0.03	23.17	132.0	-23.01	0.11	98.82	-680.61	5904.50	
123	26	91.79	1.920e+04	-3.93e-03	0.0	0.0	-72.08	0.40	280.12	-2479.36	-1.930e+04	
38.44		38.44	-1.930e+04	-0.11	23.17	132.0	-72.08	0.40	303.29	-2479.36	1.920e+04	
91.79		142.18	5403.96	-6.09e-03	0.0	0.0	-21.16	0.63	67.95	-3840.58	-5094.65	
123	27	59.55	-5094.65	-0.03	23.17	132.0	-21.16	0.63	91.12	-3840.58	5403.96	
59.55		3831.19	1.221e+04	-0.03	0.0	0.0	-64.34	-41.38	118.90	302.04	-4944.62	
142.18	39	-3958.66	-4944.62	-0.03	23.17	132.0	-64.34	-41.38	142.07	302.04	1.221e+04	-
123		2672.53	382.59	0.04	0.0	0.0	12.89	25.54	44.93	2078.87	-7143.09	-
3831.19	41	-2703.96	-7143.09	-0.04	23.17	132.0	12.89	25.54	68.10	2078.87	382.59	-
3958.66		3958.66	55.30	0.03	0.0	0.0	16.62	41.38	39.46	-302.04	-6748.36	-
123	42	-3831.19	-6748.36	-0.04	23.17	132.0	16.62	41.38	62.63	-302.04	55.30	-
2703.96	67	1242.67	8965.47	-6.67e-03	0.0	0.0	-40.28	-19.57	96.81	355.10	-5327.58	-
2672.53		-1772.17	-5327.58	-0.03	23.17	132.0	-40.28	-19.57	119.98	355.10	8965.47	-
123	70	1772.17	3302.47	6.67e-03	0.0	0.0	-7.44	19.57	61.54	-355.10	-6365.39	-
1242.67		-1242.67	-6365.39	-0.04	23.17	132.0	-7.44	19.57	84.71	-355.10	3302.47	-
1772.17	71	1246.27	8990.00	-6.29e-03	0.0	0.0	-40.54	-19.58	97.21	389.00	-5355.83	-
123		-1771.50	-5355.83	-0.03	23.17	132.0	-40.54	-19.58	120.38	389.00	8990.00	-
1246.27	73	1140.72	3331.23	0.01	0.0	0.0	-8.03	11.50	62.03	731.52	-6400.87	-
1771.50		-753.16	-6400.87	-0.04	23.17	132.0	-8.03	11.50	85.20	731.52	3331.23	-
123	74	1771.50	3277.94	6.29e-03	0.0	0.0	-7.17	19.58	61.14	-389.00	-6337.14	-
753.16		-1246.27	-6337.14	-0.04	23.17	132.0	-7.17	19.58	84.31	-389.00	3277.94	-
1140.72	2	-33.79	-1560.32	-3.07e-03	0.0	0.0	-107.88	-0.15	187.91	-1664.22	-2.835e+04	-
123		-53.34	-2.835e+04	-0.10	30.12	132.0	-107.88	-0.15	218.03	-1664.22	-1560.32	-
124	3	-33.79	-120.69	-3.07e-03	0.0	0.0	-23.26	-0.15	29.46	-1664.22	-5539.05	-
33.79		-53.34	-5539.05	-0.02	23.17	132.0	-23.26	-0.15	52.63	-1664.22	-120.69	-
53.34	5	-52.33	-117.41	-4.76e-03	0.0	0.0	-28.06	-0.23	34.09	-2577.91	-6605.57	-
124		-82.63	-6605.57	-0.03	30.12	132.0	-28.06	-0.23	64.21	-2577.91	-117.41	-
52.33	7	-52.33	-72.69	-4.76e-03	0.0	0.0	-20.61	-0.23	24.35	-2577.91	-4815.68	-
82.63		-82.63	-4815.68	-0.02	23.17	132.0	-20.61	-0.23	47.52	-2577.91	-72.69	-
124	22	0.0	-335.03	0.0	0.0	0.0	-35.12	0.0	52.31	0.0	-8769.36	-
52.33		0.0	-8769.36	-0.03	23.17	132.0	-35.12	0.0	75.48	0.0	-335.03	-
82.63	23	-6.18	-133.04	-5.62e-04	0.0	0.0	-23.95	-0.03	30.78	-304.56	-5725.17	-
124		-9.76	-5725.17	-0.02	23.17	132.0	-23.95	-0.03	53.95	-304.56	-133.04	-
6.18	25	-22.52	-130.14	-2.05e-03	0.0	0.0	-23.79	-0.10	30.47	-1109.48	-5681.47	-
9.76		-35.56	-5681.47	-0.02	23.17	132.0	-23.79	-0.10	53.64	-1109.48	-130.14	-
124	26	-22.52	-1060.08	-2.05e-03	0.0	0.0	-75.23	-0.10	129.60	-1109.48	-1.970e+04	-
22.52		-35.56	-1.970e+04	-0.07	23.17	132.0	-75.23	-0.10	152.77	-1109.48	-1060.08	-
35.56	27	-34.89	-98.14	-3.17e-03	0.0	0.0	-22.02	-0.15	27.06	-1718.61	-5199.22	-
124												-

34.89											
		-55.09	-5199.22	-0.02	23.17	132.0	-22.02	-0.15	50.23	-1718.61	-98.14
55.09											
124	39	2855.48	3640.80	0.03	0.0	0.0	-52.02	-38.46	67.82	1096.95	-6807.87
2855.48											
		-2189.09	-6807.87	-0.04	23.17	132.0	-52.02	-38.46	90.98	1096.95	3640.80
2189.09											
124	40	1011.97	3551.44	0.02	0.0	0.0	-45.68	-28.41	66.95	-440.79	-6882.54
1011.97											
		-3541.47	-6882.54	-0.04	23.17	132.0	-45.68	-28.41	90.12	-440.79	3551.44
3541.47											
124	42	2189.09	-3938.88	-0.03	0.0	0.0	2.35	38.46	-2.84	-1096.95	-5124.72
2855.48											
		-2855.48	-5143.74	-8.59e-03	23.17	132.0	2.35	38.46	20.32	-1096.95	-3938.88
2189.09											
124	59	3652.63	1123.44	0.03	0.0	0.0	-42.60	-26.78	44.39	2661.31	-6105.53
3652.63											
		1394.38	-6105.53	-0.03	23.17	132.0	-42.60	-26.78	67.56	2661.31	1123.44
1394.38											
124	62	-1394.38	-1421.52	-0.03	0.0	0.0	-7.06	26.78	20.58	-2661.31	-5827.06
3652.63											
		-3652.63	-5827.06	-0.02	23.17	132.0	-7.06	26.78	43.75	-2661.31	-1421.52
1394.38											
124	71	1319.23	1643.88	6.47e-03	0.0	0.0	-33.79	-16.85	49.23	387.59	-6374.75
1319.23											
		-828.46	-6374.75	-0.03	23.17	132.0	-33.79	-16.85	72.40	387.59	1643.88
828.46											
124	72	579.37	1628.84	2.27e-03	0.0	0.0	-32.74	-12.36	49.09	-257.15	-6391.47
579.37											
		-1222.44	-6391.47	-0.03	23.17	132.0	-32.74	-12.36	72.26	-257.15	1628.84
1222.44											
124	74	828.46	-1941.96	-6.47e-03	0.0	0.0	-15.87	16.85	15.74	-387.59	-5557.84
1319.23											
		-1319.23	-5557.84	-0.02	23.17	132.0	-15.87	16.85	38.91	-387.59	-1941.96
828.46											
124	91	1517.89	411.65	8.75e-03	0.0	0.0	-29.11	-11.86	37.73	1094.13	-6063.46
1517.89											
		348.99	-6063.46	-0.02	23.17	132.0	-29.11	-11.86	60.90	1094.13	411.65
348.99											
124	94	-348.99	-709.72	-8.75e-03	0.0	0.0	-20.55	11.86	27.24	-1094.13	-5869.13
1517.89											
		-1517.89	-5869.13	-0.02	23.17	132.0	-20.55	11.86	50.41	-1094.13	-709.72
348.99											
125	2	-12.15	-1.967e+04	1.27e-04	0.0	0.0	-106.04	0.01	-18.33	32.16	-1.967e+04
13.65											
		-13.65	-2.041e+04	0.04	30.12	132.0	-106.04	0.01	11.79	32.16	-2.011e+04
12.15											
125	3	-12.15	-3774.19	1.27e-04	0.0	0.0	-23.12	0.01	-12.24	32.16	-3774.19
13.65											
		-13.65	-4199.52	9.01e-03	23.17	132.0	-23.12	0.01	10.93	32.16	-3860.25
12.15											
125	6	-18.82	-1.183e+04	1.96e-04	0.0	0.0	-65.68	0.02	-17.04	49.81	-1.183e+04
21.15											
		-21.15	-1.247e+04	0.03	30.12	132.0	-65.68	0.02	13.08	49.81	-1.209e+04
18.82											
125	7	-18.82	-3269.11	1.96e-04	0.0	0.0	-20.52	0.02	-12.15	49.81	-3269.11
21.15											
		-21.15	-3688.97	7.90e-03	23.17	132.0	-20.52	0.02	11.02	49.81	-3344.24
18.82											
125	21	0.0	-4072.51	0.0	0.0	0.0	-24.65	0.0	-12.29	0.0	-4072.51
0.0											
		0.0	-4501.06	9.67e-03	23.17	132.0	-24.65	0.0	10.88	0.0	-4165.02
0.0											
125	22	0.0	-6029.71	0.0	0.0	0.0	-34.72	0.0	-12.61	0.0	-6029.71
0.0											
		0.0	-6481.88	0.01	23.17	132.0	-34.72	0.0	10.56	0.0	-6164.55
0.0											
125	23	-2.22	-3904.15	2.32e-05	0.0	0.0	-23.79	2.09e-03	-12.26	5.88	-3904.15
2.50											
		-2.50	-4330.88	9.30e-03	23.17	132.0	-23.79	2.09e-03	10.91	5.88	-3993.02
2.22											
125	25	-8.10	-3873.63	8.45e-05	0.0	0.0	-23.63	7.60e-03	-12.25	21.44	-3873.63
9.10											
		-9.10	-4300.03	9.23e-03	23.17	132.0	-23.63	7.60e-03	10.92	21.44	-3961.84
8.10											

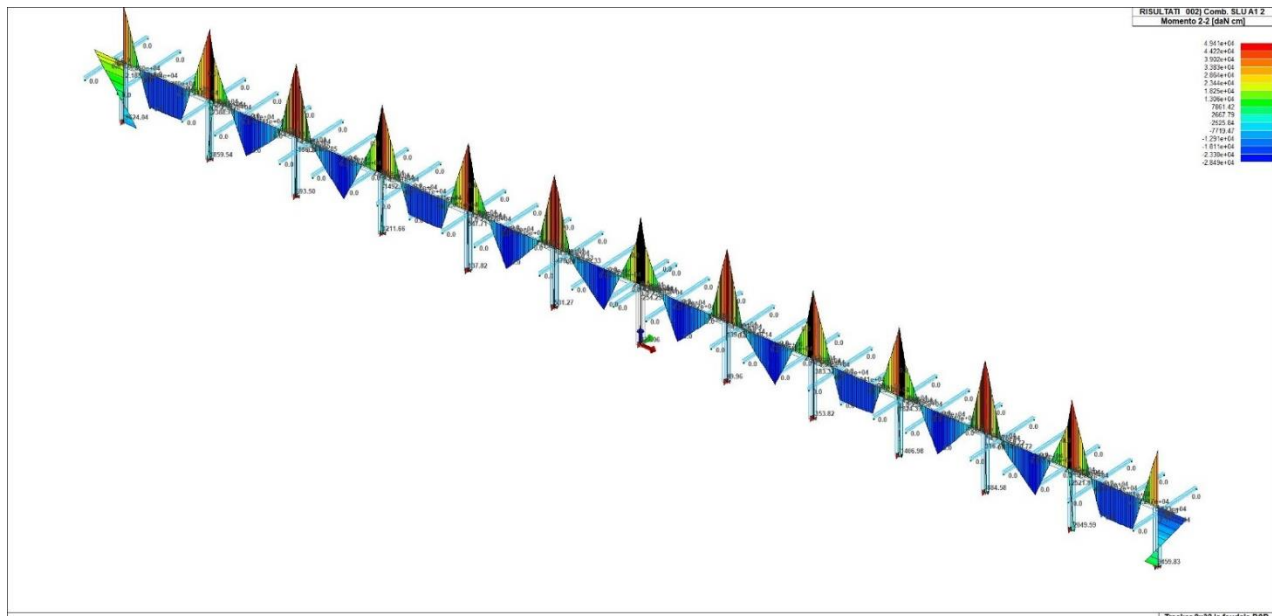
								CODE CODICE Calcoliprelstrutture_Calcoli preliminari delle strutture				PAGE 277 di/of 308			
125 9.10	26	-8.10 -1.366e+04	8.45e-05	0.0	0.0	-73.98	7.60e-03	-13.86	21.44 -1.366e+04	-					
8.10		-9.10 -1.421e+04	0.03	23.17	132.0	-73.98	7.60e-03	9.31	21.44 -1.396e+04	-					
125 14.10	27	-12.55 -3536.91	1.31e-04	0.0	0.0	-21.90	0.01	-12.20	33.21 -3536.91	-					
12.55		-14.10 -3959.67	8.49e-03	23.17	132.0	-21.90	0.01	10.97	33.21 -3617.83	-					
125 14.10	28	-12.55 -8429.91	1.31e-04	0.0	0.0	-47.07	0.01	-13.00	33.21 -8429.91	-					
12.55		-14.10 -8911.28	0.02	23.17	132.0	-47.07	0.01	10.17	33.21 -8616.67	-					
125 2567.41	39	2567.41 -1888.89	-0.01	0.0	0.0	-6.36	-27.68	23.65	17.29 -6545.20	-					
1492.07		-1492.07 -6545.20	-0.02	23.17	132.0	-6.36	-27.68	46.82	17.29 -1888.89	-					
125 1459.58	40	1459.58 -1680.39	-0.01	0.0	0.0	2.70	-32.18	24.56	-449.61 -6450.40	-					
2548.01		-2548.01 -6450.40	-0.02	23.17	132.0	2.70	-32.18	47.73	-449.61 -1680.39	-					
125 1459.58	41	2548.01 -1694.62	0.01	0.0	0.0	-52.00	32.18	-49.13	449.61 -1694.62	-					
2548.01		-1459.58 -6649.65	0.02	23.17	132.0	-52.00	32.18	-25.96	449.61 -6649.65	-					
125 2567.41	42	1492.07 -1599.82	0.01	0.0	0.0	-42.95	27.68	-48.22	-17.29 -1599.82	-					
1492.07		-2567.41 -6441.15	0.02	23.17	132.0	-42.95	27.68	-25.05	-17.29 -6441.15	-					
125 1160.07	71	1160.07 -3063.54	-1.67e-03	0.0	0.0	-19.01	-13.59	4.78	3.88 -5224.56	-					
687.20		-687.20 -5224.56	-8.46e-03	23.17	132.0	-19.01	-13.59	27.95	3.88 -3063.54	-					
125 697.84	72	697.84 -3031.38	-2.17e-03	0.0	0.0	-17.55	-14.39	4.93	-82.03 -5210.96	-					
1150.96		-1150.96 -5210.96	-8.50e-03	23.17	132.0	-17.55	-14.39	28.10	-82.03 -3031.38	-					
125 697.84	73	1150.96 -2934.05	2.17e-03	0.0	0.0	-31.75	14.39	-29.50	82.03 -2934.05	-					
1150.96		-697.84 -5298.65	0.01	23.17	132.0	-31.75	14.39	-6.33	82.03 -5298.65	-					
125 1160.07	74	687.20 -2920.46	1.67e-03	0.0	0.0	-30.30	13.59	-29.35	-3.88 -2920.46	-					
687.20		-1160.07 -5266.50	0.01	23.17	132.0	-30.30	13.59	-6.18	-3.88 -5266.50	-					
126 13.43	2	13.43 2.320e+04	-3.77e-03	0.0	0.0	-118.16	-0.18	376.57	-3361.22 -2.849e+04	-					
10.67		-10.67 -2.849e+04	-0.16	30.12	132.0	-118.16	-0.18	406.69	-3361.22 2.320e+04	-					
126 20.80	6	20.80 1.423e+04	-5.84e-03	0.0	0.0	-72.96	-0.28	223.07	-5206.60 -1.720e+04	-					
16.52		-16.52 -1.720e+04	-0.10	30.12	132.0	-72.96	-0.28	253.19	-5206.60 1.423e+04	-					
126 20.80	7	20.80 4277.43	-5.84e-03	0.0	0.0	-22.52	-0.28	57.49	-5206.60 -4840.85	-					
16.52		-16.52 -4840.85	-0.03	23.17	132.0	-22.52	-0.28	80.66	-5206.60 4277.43	-					
126 0.0	22	0.0 7434.41	0.0	0.0	0.0	-38.43	0.0	111.51	0.0 -8814.10	-					
0.0		0.0 -8814.10	-0.05	23.17	132.0	-38.43	0.0	134.68	0.0 7434.41	-					
126 2.46	23	2.46 5003.65	-6.90e-04	0.0	0.0	-26.18	-0.03	69.92	-615.13 -5754.84	-					
1.95		-1.95 -5754.84	-0.03	23.17	132.0	-26.18	-0.03	93.09	-615.13 5003.65	-					
126 8.95	26	8.95 1.616e+04	-2.52e-03	0.0	0.0	-82.40	-0.12	260.81	-2240.81 -1.980e+04	-					
7.11		-7.11 -1.980e+04	-0.11	23.17	132.0	-82.40	-0.12	283.97	-2240.81 1.616e+04	-					
126 13.87	27	13.87 4583.68	-3.90e-03	0.0	0.0	-24.06	-0.19	62.73	-3471.07 -5226.29	-					
11.02		-11.02 -5226.29	-0.03	23.17	132.0	-24.06	-0.19	85.90	-3471.07 4583.68	-					
126 13.87	28	13.87 1.018e+04	-3.90e-03	0.0	0.0	-52.26	-0.19	158.47	-3471.07 -1.227e+04	-					
		-11.02 -1.227e+04	-0.07	23.17	132.0	-52.26	-0.19	181.64	-3471.07 1.018e+04	-					

11.02 126 3068.75	39	3068.75	1.030e+04	2.71e-03	0.0	0.0	-75.57	-40.49	109.01	673.71	-5346.46
		-2553.01	-5346.46	-0.04	23.17	132.0	-75.57	-40.49	132.18	673.71	1.030e+04
2553.01 126 3068.75	42	2553.01	94.00	-2.71e-03	0.0	0.0	21.27	40.49	37.42	-673.71	-6647.86
		-3068.75	-6647.86	-0.03	23.17	132.0	21.27	40.49	60.59	-673.71	94.00
2553.01 126 3475.66	59	3475.66	6964.28	0.02	0.0	0.0	-57.00	-41.02	87.74	4831.26	-5536.17
		-2442.99	-5536.17	-0.03	23.17	132.0	-57.00	-41.02	110.91	4831.26	6964.28
2442.99 126 3475.66	62	2442.99	3428.09	-0.02	0.0	0.0	2.69	41.02	58.68	-4831.26	-6458.15
		-3475.66	-6458.15	-0.04	23.17	132.0	2.69	41.02	81.85	-4831.26	3428.09
2442.99 126 1276.68	71	1276.68	7606.57	1.89e-03	0.0	0.0	-43.24	-18.59	89.79	506.18	-5741.01
		-1198.20	-5741.01	-0.04	23.17	132.0	-43.24	-18.59	112.95	506.18	7606.57
1198.20 126 1276.68	74	1198.20	2785.80	-1.89e-03	0.0	0.0	-11.06	18.59	56.64	-506.18	-6253.30
		-1276.68	-6253.30	-0.03	23.17	132.0	-11.06	18.59	79.81	-506.18	2785.80
1198.20 126 1458.83	91	1458.83	5957.09	8.35e-03	0.0	0.0	-34.41	-19.12	78.78	2088.07	-5879.32
		-1117.60	-5879.32	-0.03	23.17	132.0	-34.41	-19.12	101.95	2088.07	5957.09
1117.60 126 1458.83	94	1117.60	4435.28	-8.35e-03	0.0	0.0	-19.89	19.12	67.65	-2088.07	-6114.99
		-1458.83	-6114.99	-0.03	23.17	132.0	-19.89	19.12	90.82	-2088.07	4435.28
1117.60 127 70.88	2	7.45	-4586.81	-2.19e-03	0.0	0.0	-122.11	0.59	157.87	-1369.10	-2.741e+04
		-70.88	-2.741e+04	-0.09	30.12	132.0	-122.11	0.59	187.99	-1369.10	-4586.81
7.45 127 109.80	5	11.54	-846.52	-3.39e-03	0.0	0.0	-31.73	0.92	26.81	-2120.76	-6372.97
		-109.80	-6372.97	-0.02	30.12	132.0	-31.73	0.92	56.93	-2120.76	-846.52
11.54 127 109.80	7	11.54	-605.50	-3.39e-03	0.0	0.0	-23.30	0.92	19.02	-2120.76	-4645.37
		-109.80	-4645.37	-0.02	23.17	132.0	-23.30	0.92	42.19	-2120.76	-605.50
11.54 127 0.0	22	0.0	-1285.52	0.0	0.0	0.0	-39.73	0.0	42.85	0.0	-8470.78
		0.0	-8470.78	-0.03	23.17	132.0	-39.73	0.0	66.02	0.0	-1285.52
0.0 127 12.97	23	1.36	-761.93	-4.00e-04	0.0	0.0	-27.08	0.11	24.50	-250.55	-5525.35
		-12.97	-5525.35	-0.02	23.17	132.0	-27.08	0.11	47.67	-250.55	-761.93
1.36 127 47.25	26	4.97	-3164.99	-1.46e-03	0.0	0.0	-85.15	0.40	108.71	-912.73	-1.904e+04
		-47.25	-1.904e+04	-0.06	23.17	132.0	-85.15	0.40	131.88	-912.73	-3164.99
4.97 127 73.20	27	7.69	-671.47	-2.26e-03	0.0	0.0	-24.90	0.61	21.33	-1413.84	-5016.47
		-73.20	-5016.47	-0.02	23.17	132.0	-24.90	0.61	44.50	-1413.84	-671.47
7.69 127 73.20	28	7.69	-1876.76	-2.26e-03	0.0	0.0	-54.02	0.61	63.57	-1413.84	-1.180e+04
		-73.20	-1.180e+04	-0.04	23.17	132.0	-54.02	0.61	86.74	-1413.84	-1876.76
7.69 127 5216.32	39	5216.32	2774.69	0.05	0.0	0.0	-69.19	-48.13	60.84	1790.12	-6845.05
		-1692.45	-6845.05	-0.04	23.17	132.0	-69.19	-48.13	84.01	1790.12	2774.69
1692.45 127 2177.69	40	2177.69	2834.04	0.04	0.0	0.0	-62.59	-31.21	61.93	550.03	-6932.70
		-2798.30	-6932.70	-0.04	23.17	132.0	-62.59	-31.21	85.10	550.03	2834.04
2798.30 127 5216.32	42	1692.45	-4381.50	-0.05	0.0	0.0	13.03	48.13	-8.93	-1790.12	-4672.26

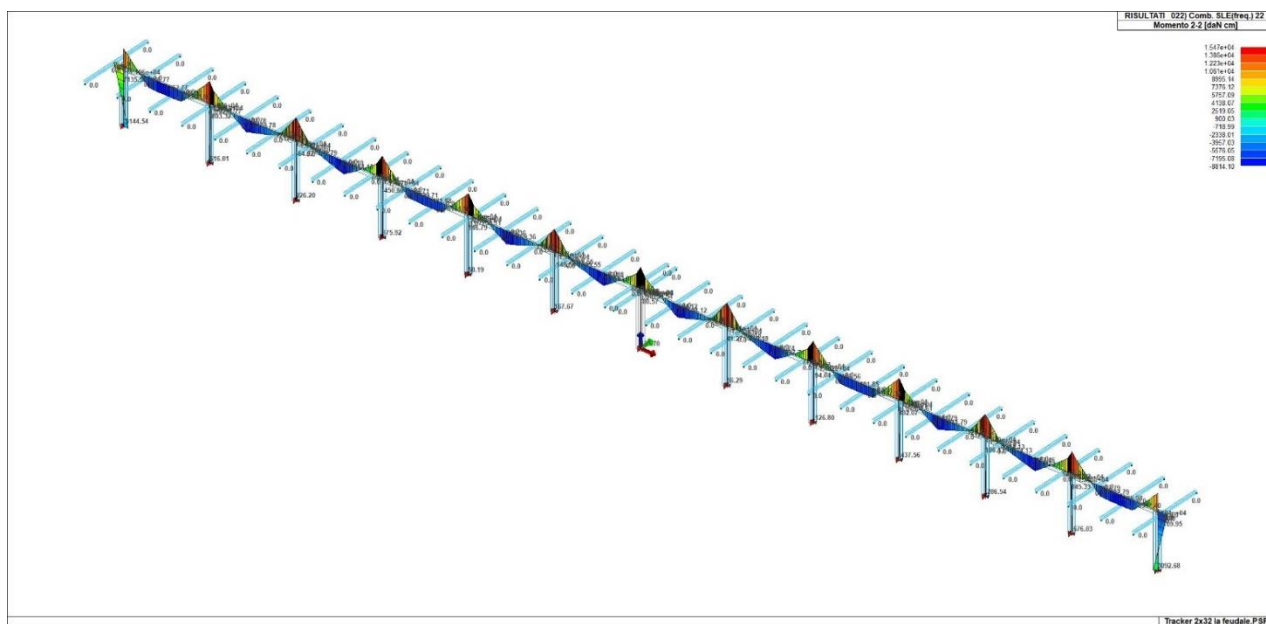
1692.45		-5216.32	-4921.62	8.73e-03	23.17	132.0	13.03	48.13	14.24	-1790.12	-4381.50
127	59	6173.49	180.02	0.02	0.0	0.0	-50.44	-40.10	34.77	2417.83	-5951.65
6173.49		1169.46	-5951.65	-0.03	23.17	132.0	-50.44	-40.10	57.94	2417.83	180.02
1169.46		-1169.46	-1786.82	-0.02	0.0	0.0	-5.73	40.10	17.14	-2417.83	-5565.66
127	62	-6173.49	-5565.66	-0.01	23.17	132.0	-5.73	40.10	40.31	-2417.83	-1786.82
6173.49		1758.32	909.95	8.81e-03	0.0	0.0	-40.87	-18.86	42.47	572.89	-6231.34
1169.46		-743.74	-6231.34	-0.03	23.17	132.0	-40.87	-18.86	65.64	572.89	909.95
127	71	787.00	918.93	6.14e-03	0.0	0.0	-39.81	-13.02	42.65	13.06	-6245.63
1758.32		-1083.02	-6245.63	-0.03	23.17	132.0	-39.81	-13.02	65.82	13.06	918.93
743.74		743.74	-2516.75	-8.81e-03	0.0	0.0	-15.30	18.86	9.44	-572.89	-5285.97
127	74	-1758.32	-5285.97	-0.01	23.17	132.0	-15.30	18.86	32.61	-572.89	-2516.75
1758.32		2000.66	-303.03	6.69e-03	0.0	0.0	-33.52	-14.51	30.65	1020.93	-5878.80
743.74		291.46	-5878.80	-0.02	23.17	132.0	-33.52	-14.51	53.82	1020.93	-303.03
127	94	-291.46	-1303.77	-6.69e-03	0.0	0.0	-22.65	14.51	21.26	-1020.93	-5638.51
2000.66		-2000.66	-5638.51	-0.02	23.17	132.0	-22.65	14.51	44.43	-1020.93	-1303.77
291.46		57.66	-3789.33	-4.69e-04	0.0	0.0	-103.35	0.61	-196.86	1373.61	-3789.33
128	2	-22.36	-2.779e+04	0.10	30.12	132.0	-103.35	0.61	-166.74	1373.61	-2.779e+04
22.36		89.32	-2170.14	-7.27e-04	0.0	0.0	-63.89	0.94	-125.71	2127.75	-2170.14
57.66	6	-34.63	-1.678e+04	0.06	30.12	132.0	-63.89	0.94	-95.59	2127.75	-1.678e+04
128		89.32	-465.73	-7.27e-04	0.0	0.0	-19.82	0.94	-43.80	2127.75	-465.73
34.63	7	-34.63	-4718.73	0.02	23.17	132.0	-19.82	0.94	-20.63	2127.75	-4718.73
89.32		0.0	-1035.55	0.0	0.0	0.0	-33.70	0.0	-68.84	0.0	-1035.55
128	22	0.0	-8593.88	0.03	23.17	132.0	-33.70	0.0	-45.68	0.0	-8593.88
0.0		10.55	-596.81	-8.59e-05	0.0	0.0	-23.01	0.11	-49.56	251.38	-596.81
128	23	-4.09	-5610.15	0.02	23.17	132.0	-23.01	0.11	-26.40	251.38	-5610.15
4.09		10.55	-2610.43	-3.13e-04	0.0	0.0	-72.08	0.40	-138.05	915.74	-2610.43
10.55	26	-14.90	-1.930e+04	0.07	23.17	132.0	-72.08	0.40	-114.88	915.74	-1.930e+04
128		38.44	-521.01	-4.84e-04	0.0	0.0	-21.16	0.63	-46.23	1418.50	-521.01
14.90	27	-23.09	-5094.65	0.02	23.17	132.0	-21.16	0.63	-23.06	1418.50	-5094.65
38.44		59.55	-1530.97	-4.84e-04	0.0	0.0	-45.77	0.63	-90.62	1418.50	-1530.97
128	28	-23.09	-1.196e+04	0.04	23.17	132.0	-45.77	0.63	-67.45	1418.50	-1.196e+04
23.09		3904.55	-4454.65	9.62e-03	0.0	0.0	-10.52	-28.59	-13.51	199.28	-4454.65
59.55		-2648.99	-4963.86	0.01	23.17	132.0	-10.52	-28.59	9.66	199.28	-4690.89
128	40	2700.31	-4297.77	6.85e-03	0.0	0.0	-6.93	-37.25	-10.76	-829.49	-4422.21
2700.31		-3723.62	-4744.09	0.01	23.17	132.0	-6.93	-37.25	12.41	-829.49	-4297.77
3723.62		3723.62	3159.09	-6.85e-03	0.0	0.0	-40.79	37.25	-91.43	829.49	3159.09
128	41	-2700.31	-7395.20	0.04	23.17	132.0	-40.79	37.25	-68.26	829.49	-7395.20
2700.31		2648.99	3191.52	-9.62e-03	0.0	0.0	-37.19	28.59	-88.67	-199.28	3191.52
3723.62	42										

3904.55		-3904.55	-7002.08	0.04	23.17	132.0	-37.19	28.59	-65.50	-199.28	-7002.08
2648.99 128 975.65	72	975.65	-2445.21	1.94e-03	0.0	0.0	-16.87	-17.71	-32.20	-267.61	-2445.21
		-1466.76	-5163.54	0.02	23.17	132.0	-16.87	-17.71	-9.03	-267.61	-5163.54
1466.76 128 975.65	73	1466.76	1182.09	-1.94e-03	0.0	0.0	-30.85	17.71	-69.98	267.61	1182.09
		-975.65	-6529.43	0.03	23.17	132.0	-30.85	17.71	-46.81	267.61	-6529.43
1466.76 128 1319.59	74	988.60	1187.03	-3.01e-03	0.0	0.0	-30.05	14.00	-69.54	-153.81	1187.03
		-1319.59	-6466.07	0.03	23.17	132.0	-30.05	14.00	-46.37	-153.81	-6466.07
988.60 129 14.23	2	-14.23	2.422e+04	3.92e-03	0.0	0.0	-107.88	-0.15	-413.30	3428.43	2.422e+04
		-33.79	-2.835e+04	0.16	30.12	132.0	-107.88	-0.15	-383.18	3428.43	-2.835e+04
33.79 129 14.23	3	-14.23	5055.43	3.92e-03	0.0	0.0	-23.26	-0.15	-91.85	3428.43	5055.43
		-33.79	-5539.05	0.03	23.17	132.0	-23.26	-0.15	-68.68	3428.43	-5539.05
33.79 129 22.04	6	-22.04	1.484e+04	6.07e-03	0.0	0.0	-66.64	-0.23	-257.19	5310.71	1.484e+04
		-52.33	-1.712e+04	0.10	30.12	132.0	-66.64	-0.23	-227.07	5310.71	-1.712e+04
52.33 129 22.04	7	-22.04	4452.00	6.07e-03	0.0	0.0	-20.61	-0.23	-81.79	5310.71	4452.00
		-52.33	-4815.68	0.03	23.17	132.0	-20.61	-0.23	-58.62	5310.71	-4815.68
52.33 129 0.0	21	0.0	5411.83	0.0	0.0	0.0	-24.83	0.0	-97.78	0.0	5411.83
		0.0	-5966.29	0.03	23.17	132.0	-24.83	0.0	-74.61	0.0	-5966.29
0.0 129 0.0	22	0.0	7750.11	0.0	0.0	0.0	-35.12	0.0	-136.73	0.0	7750.11
		0.0	-8769.36	0.05	23.17	132.0	-35.12	0.0	-113.56	0.0	-8769.36
0.0 129 2.60	23	-2.60	5210.69	7.17e-04	0.0	0.0	-23.95	-0.03	-94.43	627.43	5210.69
		-6.18	-5725.17	0.03	23.17	132.0	-23.95	-0.03	-71.26	627.43	-5725.17
6.18 129 9.49	25	-9.49	5174.23	2.61e-03	0.0	0.0	-23.79	-0.10	-93.82	2285.62	5174.23
		-22.52	-5681.47	0.03	23.17	132.0	-23.79	-0.10	-70.66	2285.62	-5681.47
22.52 129 9.49	26	-9.49	1.687e+04	2.61e-03	0.0	0.0	-75.23	-0.10	-288.57	2285.62	1.687e+04
		-22.52	-1.970e+04	0.11	23.17	132.0	-75.23	-0.10	-265.40	2285.62	-1.970e+04
22.52 129 14.69	27	-14.69	4771.95	4.05e-03	0.0	0.0	-22.02	-0.15	-87.12	3540.47	4771.95
		-34.89	-5199.22	0.03	23.17	132.0	-22.02	-0.15	-63.95	3540.47	-5199.22
34.89 129 14.69	28	-14.69	1.062e+04	4.05e-03	0.0	0.0	-47.74	-0.15	-184.50	3540.47	1.062e+04
		-34.89	-1.221e+04	0.07	23.17	132.0	-47.74	-0.15	-161.33	3540.47	-1.221e+04
34.89 129 2594.77	40	2594.77	304.71	2.48e-03	0.0	0.0	11.90	-44.65	-63.06	1762.29	304.71
		-3513.31	-6612.39	0.03	23.17	132.0	11.90	-44.65	-39.89	1762.29	-6612.39
3513.31 129 2594.77	41	3513.31	1.052e+04	-2.48e-03	0.0	0.0	-61.56	44.65	-132.50	-1762.29	1.052e+04
		-2594.77	-5320.20	0.04	23.17	132.0	-61.56	44.65	-109.33	-1762.29	-5320.20
3513.31 129 2431.27	60	2431.27	3734.65	0.01	0.0	0.0	-1.41	-45.77	-85.60	4035.91	3734.65
		-4037.80	-6267.11	0.03	23.17	132.0	-1.41	-45.77	-62.43	4035.91	-6267.11
4037.80 129 2431.27	61	4037.80	7089.01	-0.01	0.0	0.0	-48.25	45.77	-109.96	-4035.91	7089.01
		-2431.27	-5665.48	0.03	23.17	132.0	-48.25	45.77	-86.79	-4035.91	-5665.48
4037.80											

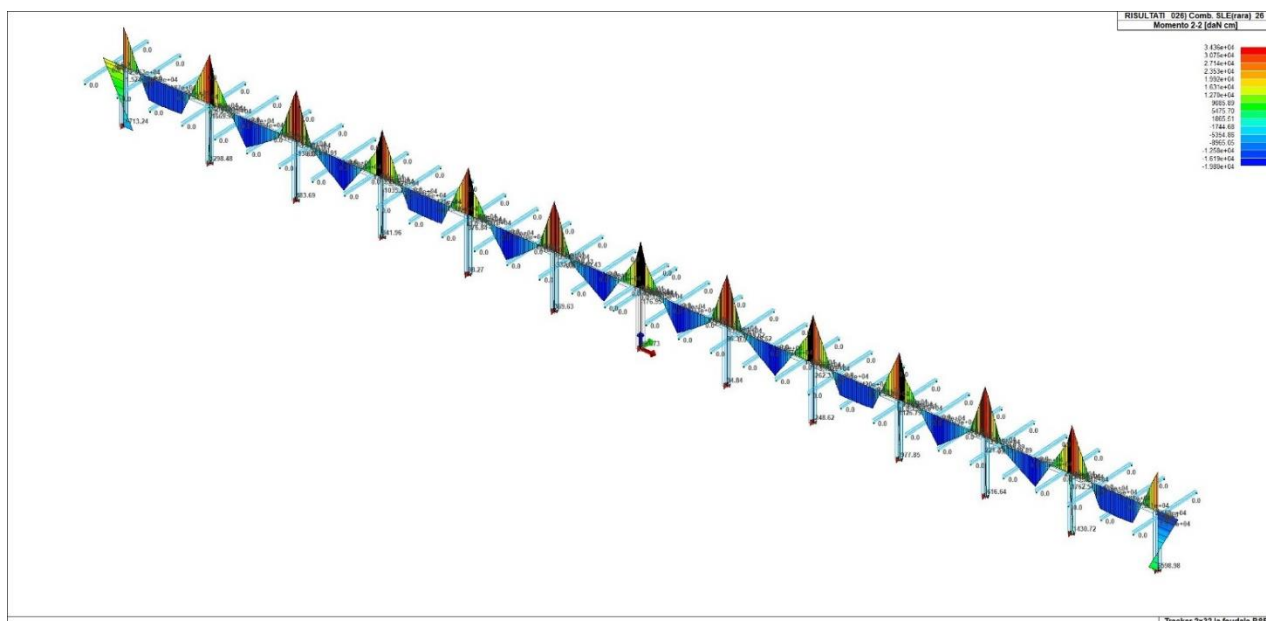
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1361.11											
129	73	1361.11	7831.68	-1.53e-03	0.0	0.0	-40.82	19.23	-114.05	-690.38	7831.68
1204.20		-1204.20	-5674.49	0.04	23.17	132.0	-40.82	19.23	-90.88	-690.38	-5674.49
1361.11											
129	92	1127.53	4655.64	5.30e-03	0.0	0.0	-18.02	-20.01	-92.50	1868.46	4655.64
1127.53		-1568.07	-6078.32	0.03	23.17	132.0	-18.02	-20.01	-69.33	1868.46	-6078.32
1568.07											
129	93	1568.07	6168.02	-5.30e-03	0.0	0.0	-31.64	20.01	-103.06	-1868.46	6168.02
1127.53		-1127.53	-5854.27	0.03	23.17	132.0	-31.64	20.01	-79.89	-1868.46	-5854.27
1568.07											
Trave		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T	
		-1.730e+04	-2.849e+04	-0.76	-6.85		-141.16	-579.71	-1018.08	-1.366e+04	
		2.530e+04	4.941e+04	0.67	309.72		68.08	579.71	1017.74	1.366e+04	



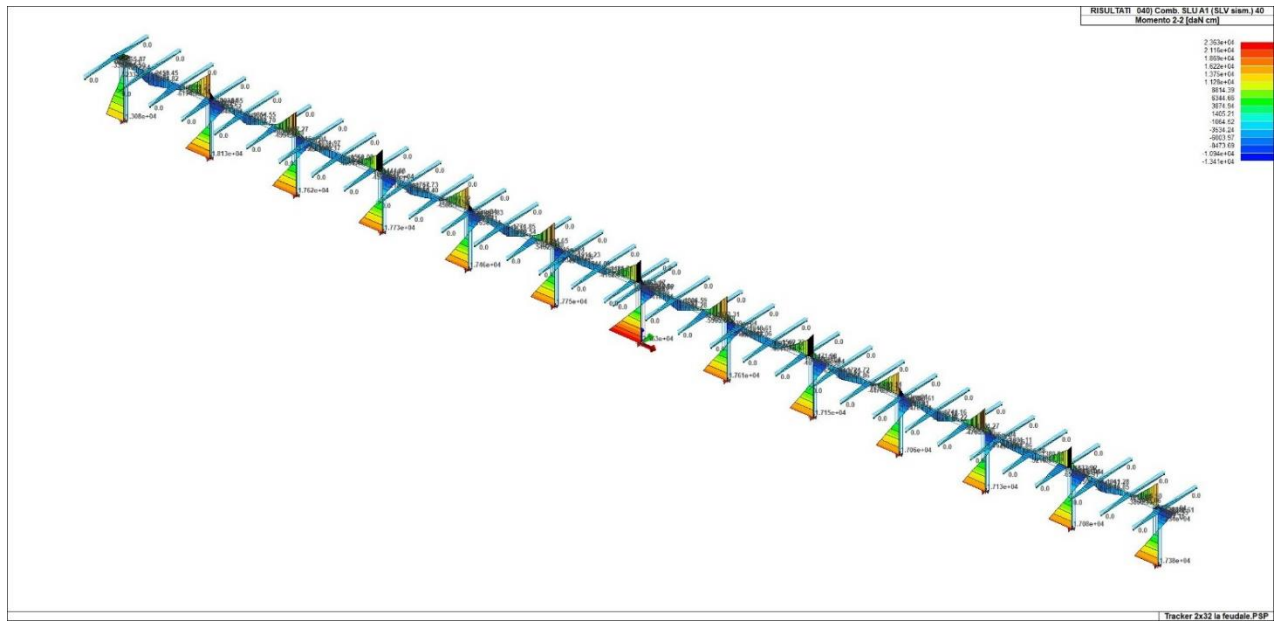
43_RIS_M2_002_Comb. SLU A1 2



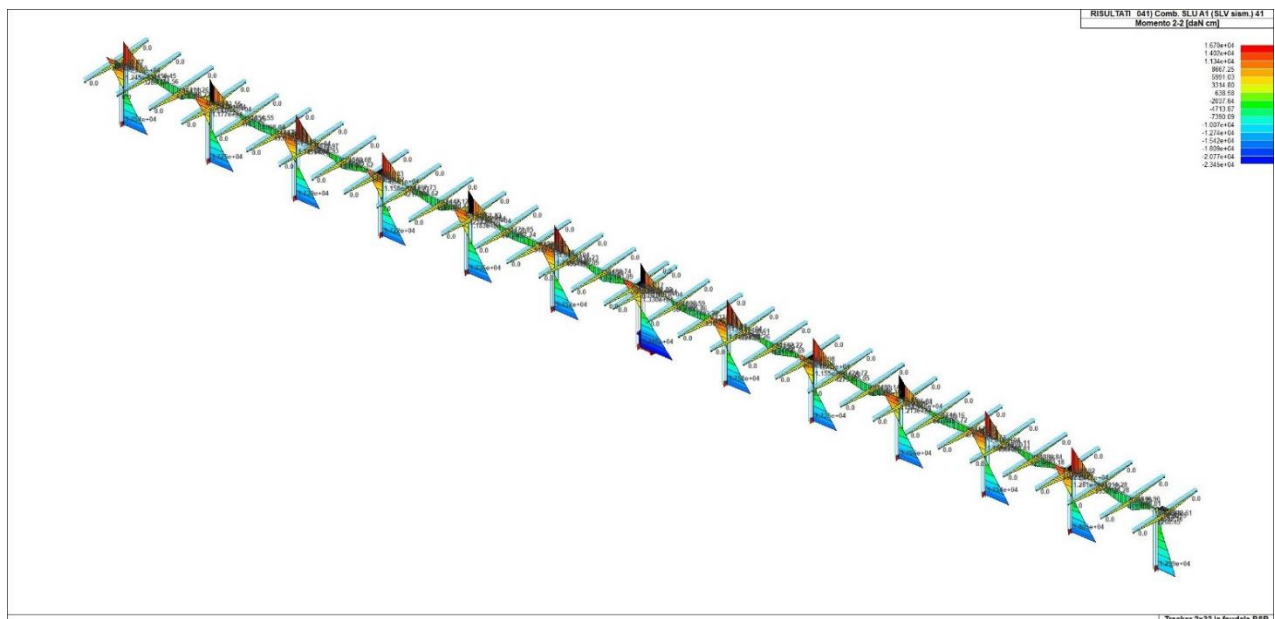
43_RIS_M2_022_Comb. SLE(freq.) 22



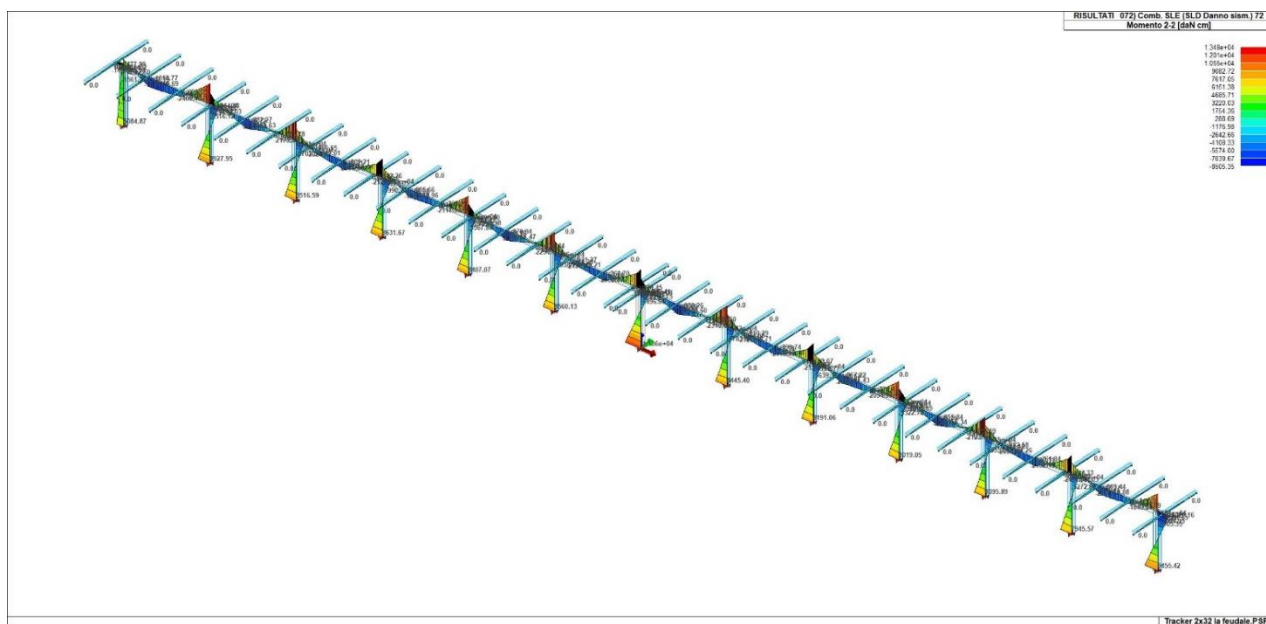
43_RIS_M2_026_Comb. SLE(rara) 26



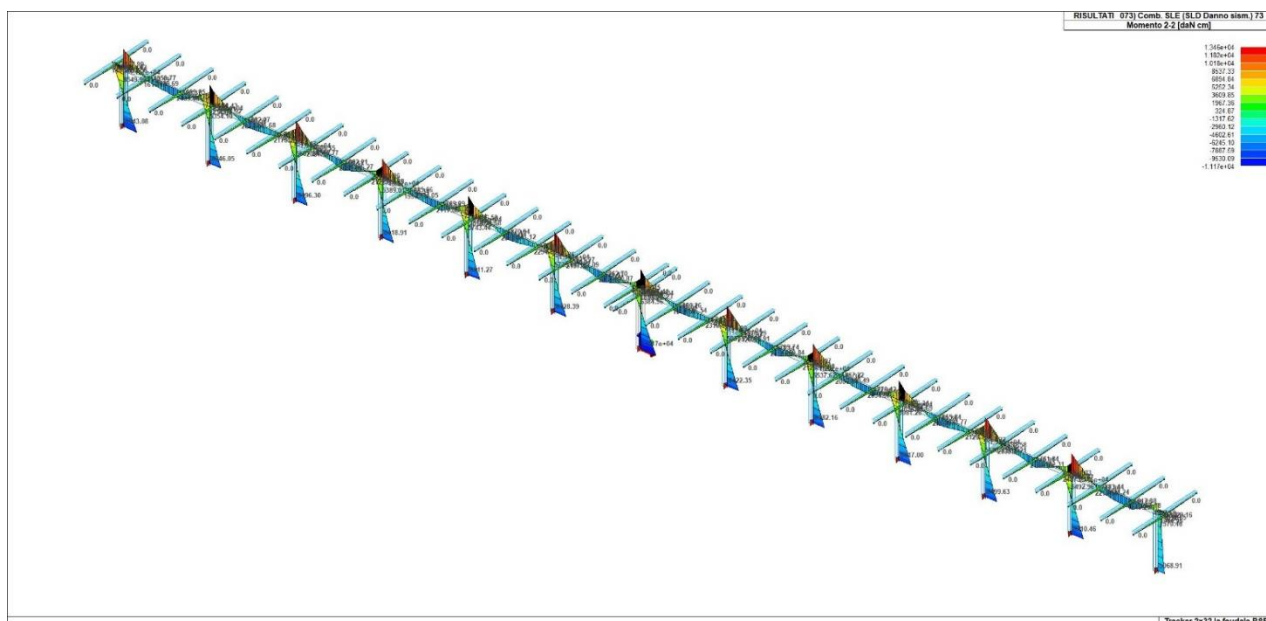
43_RIS_M2_040_Comb. SLU A1 (SLV sism.) 40



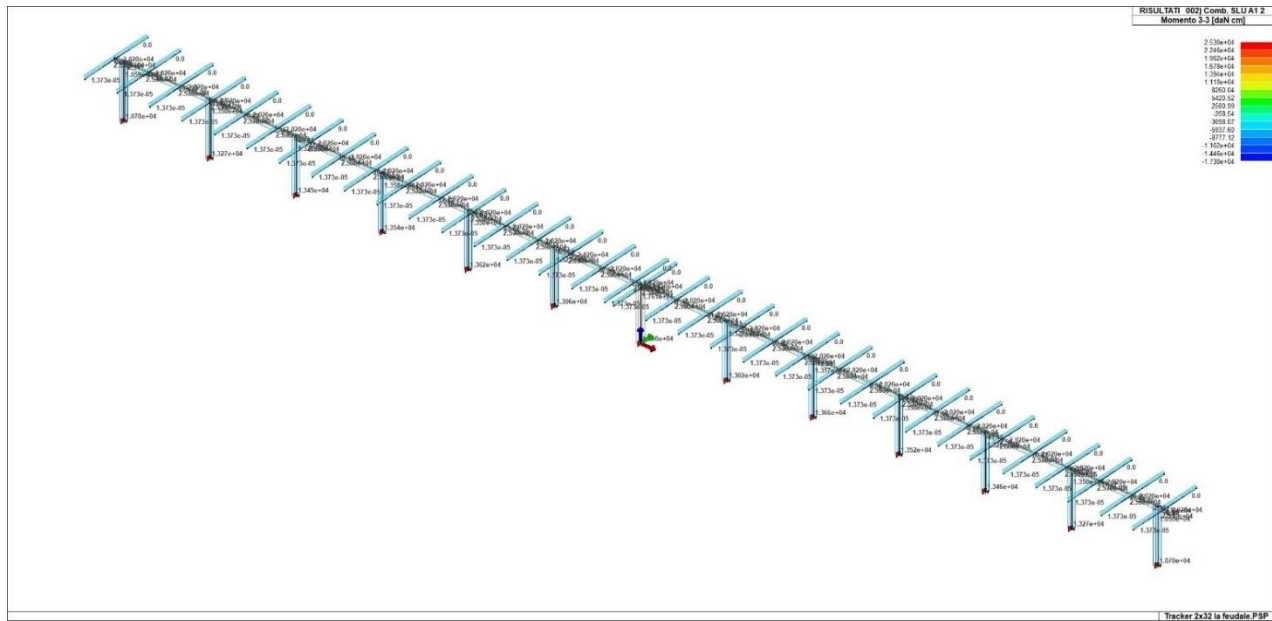
43_RIS_M2_041_Comb. SLU A1 (SLV sism.) 41



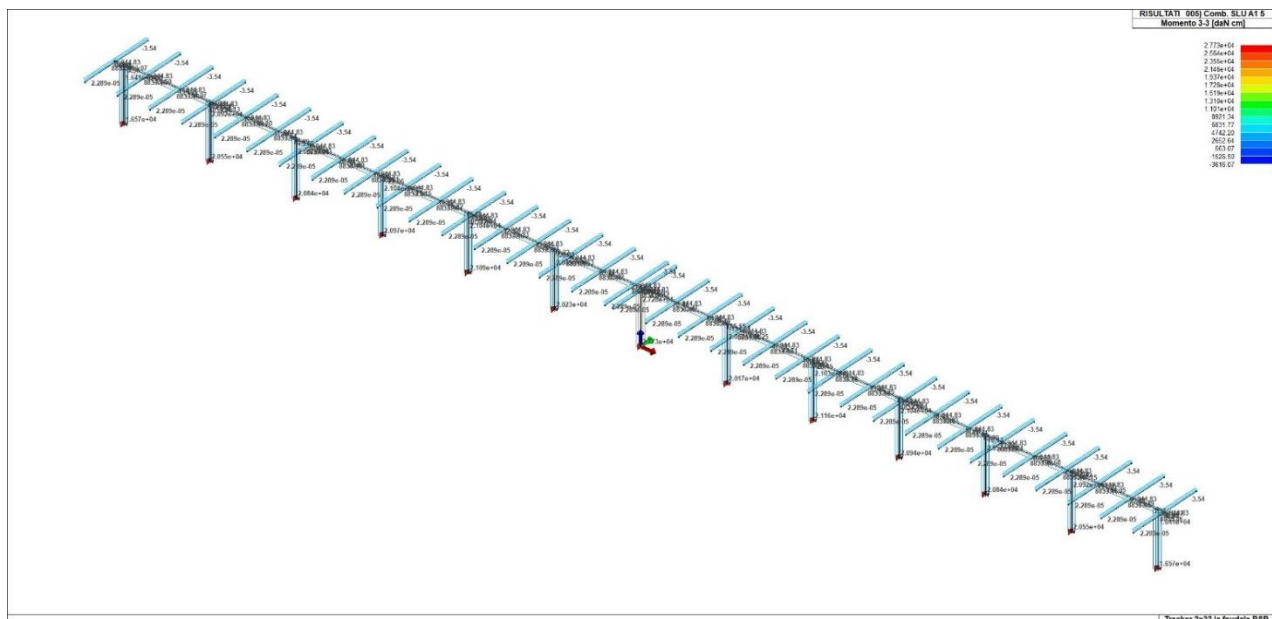
43_RIS_M2_072_Comb. SLE (SLD Danno sism.) 72



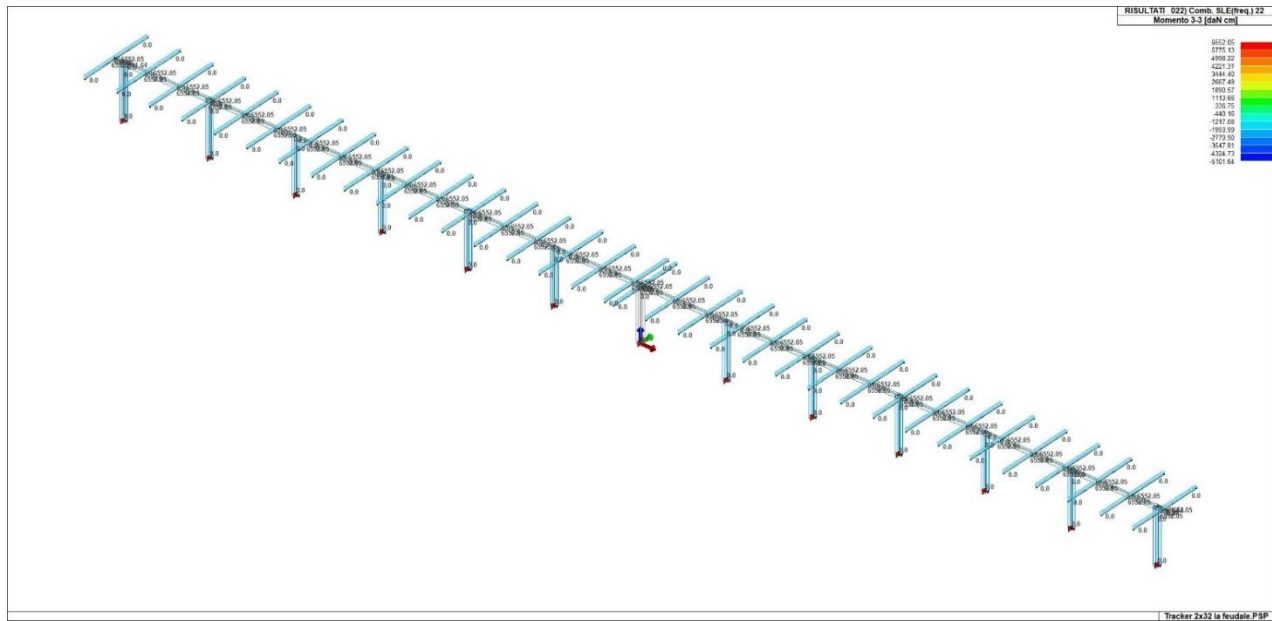
43_RIS_M2_073_Comb. SLE (SLD Danno sism.) 73



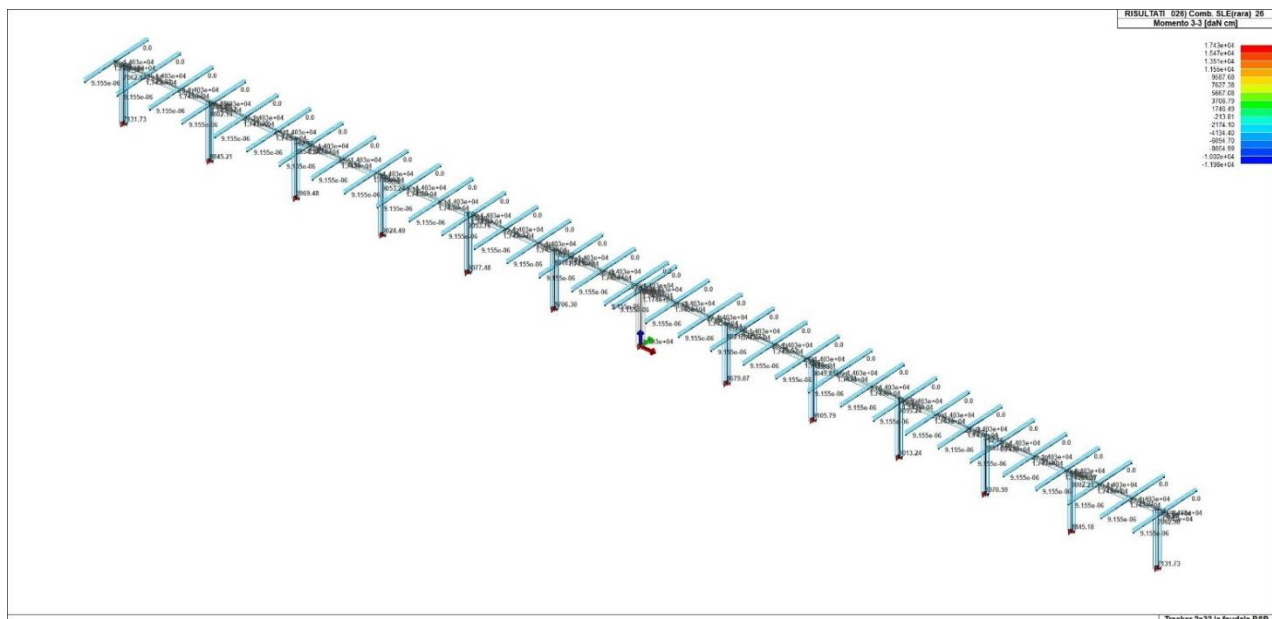
43_RIS_M3_002_Comb. SLU A1 2



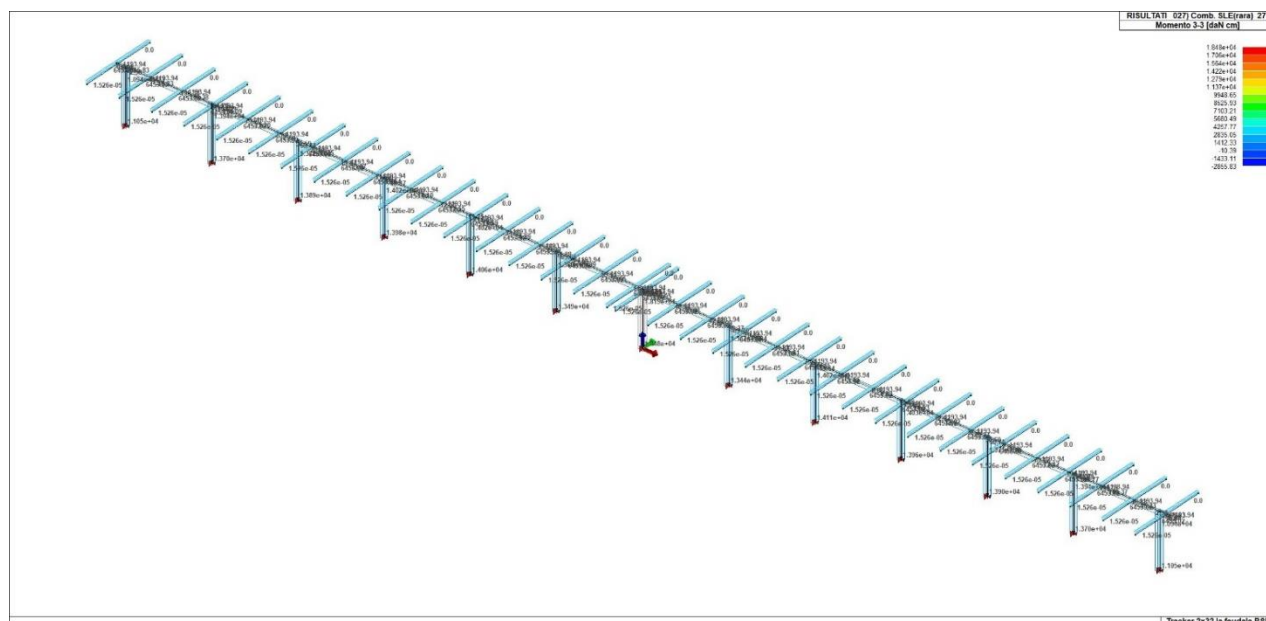
43_RIS_M3_005_Comb. SLU A1 5



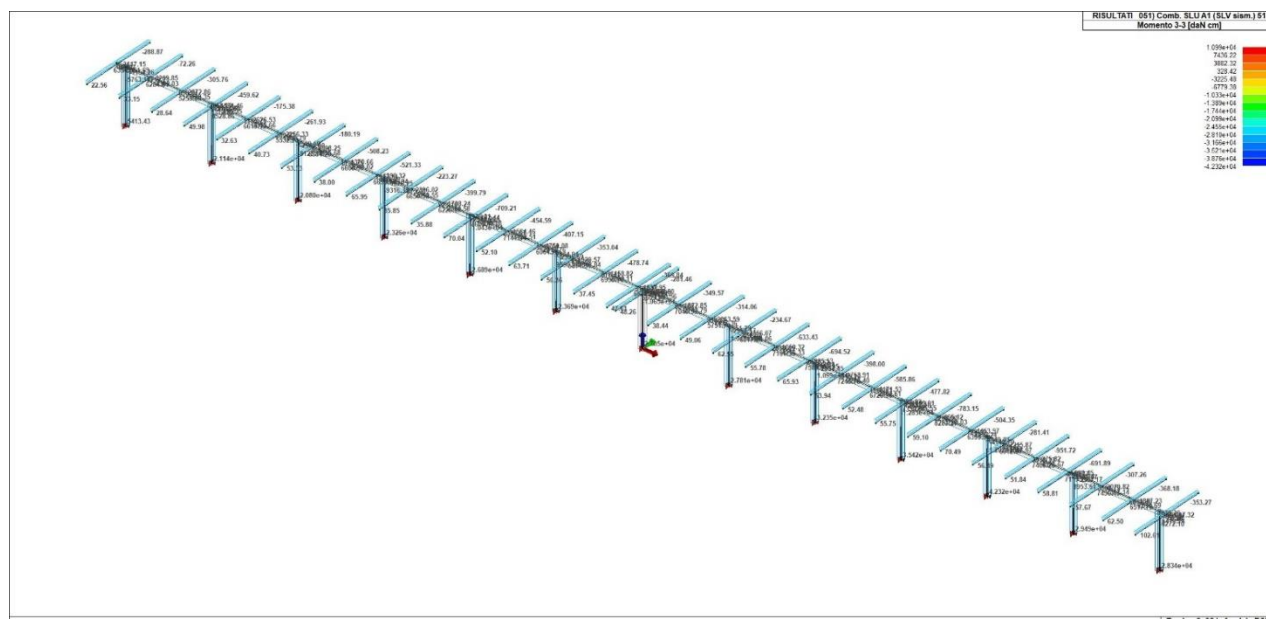
43_RIS_M3_022_Comb. SLE(freq.) 22



43_RIS_M3_026_Comb. SLE(rara) 26

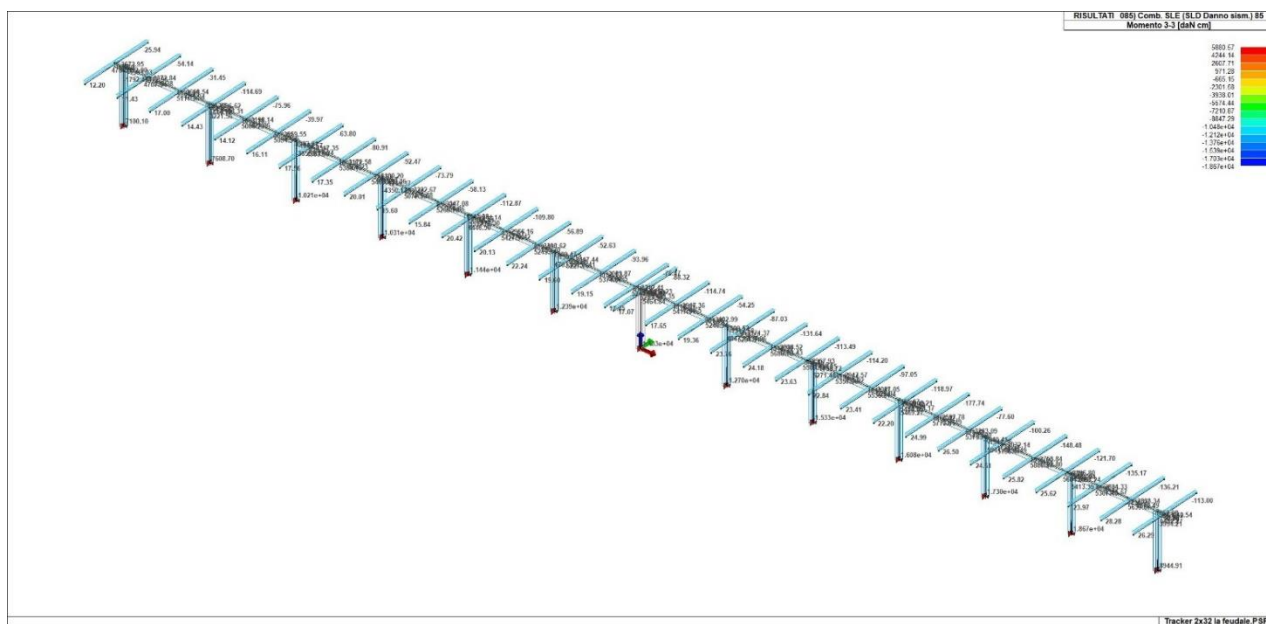


43_RIS_M3_027_Comb. SLE(rara) 27

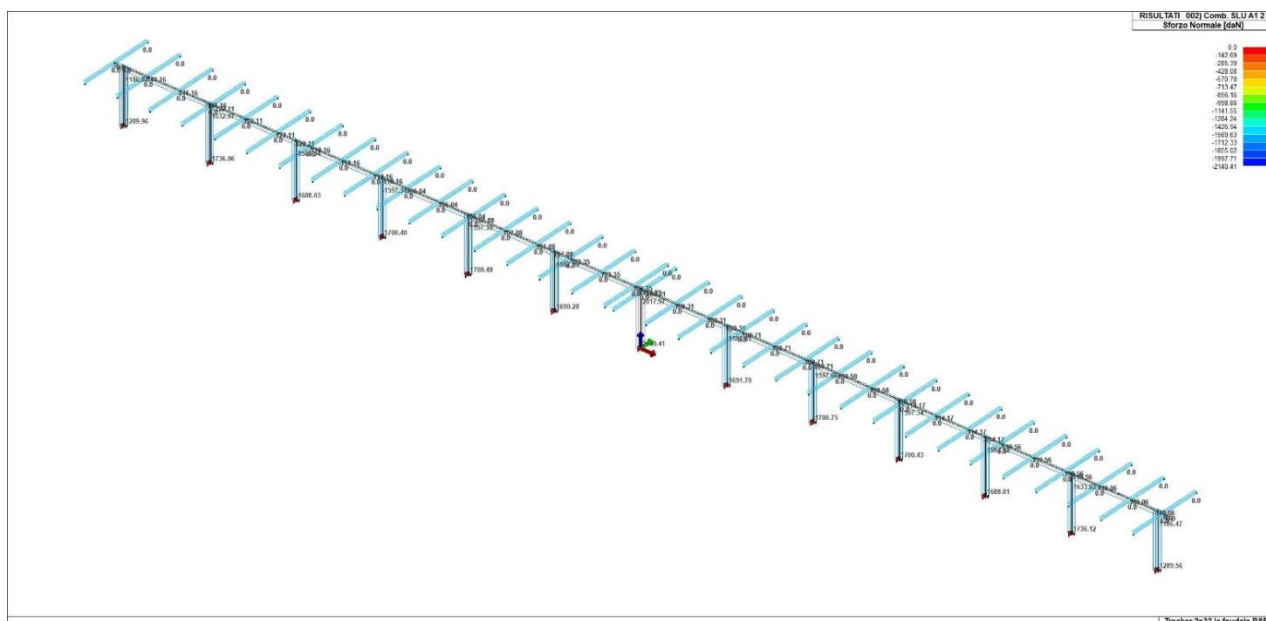


43_RIS_M3_051_Comb. SLU A1 (SLV sism.) 51

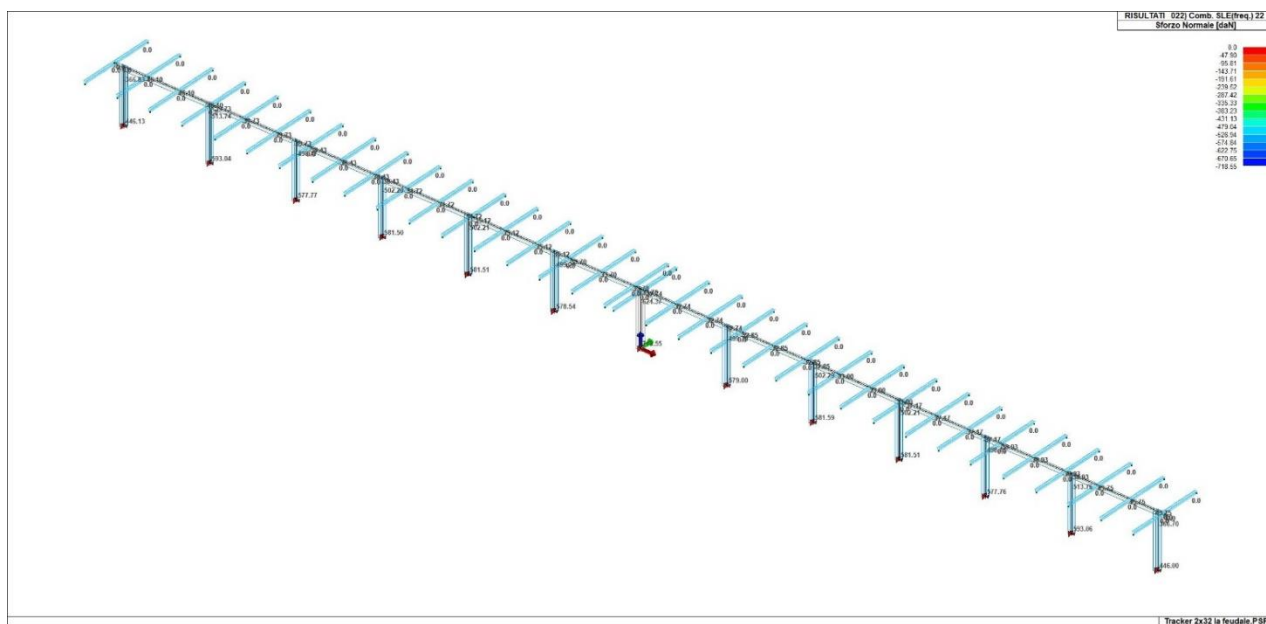
43_RIS_M3_084_Comb. SLE (SLD Danno sism.) 84



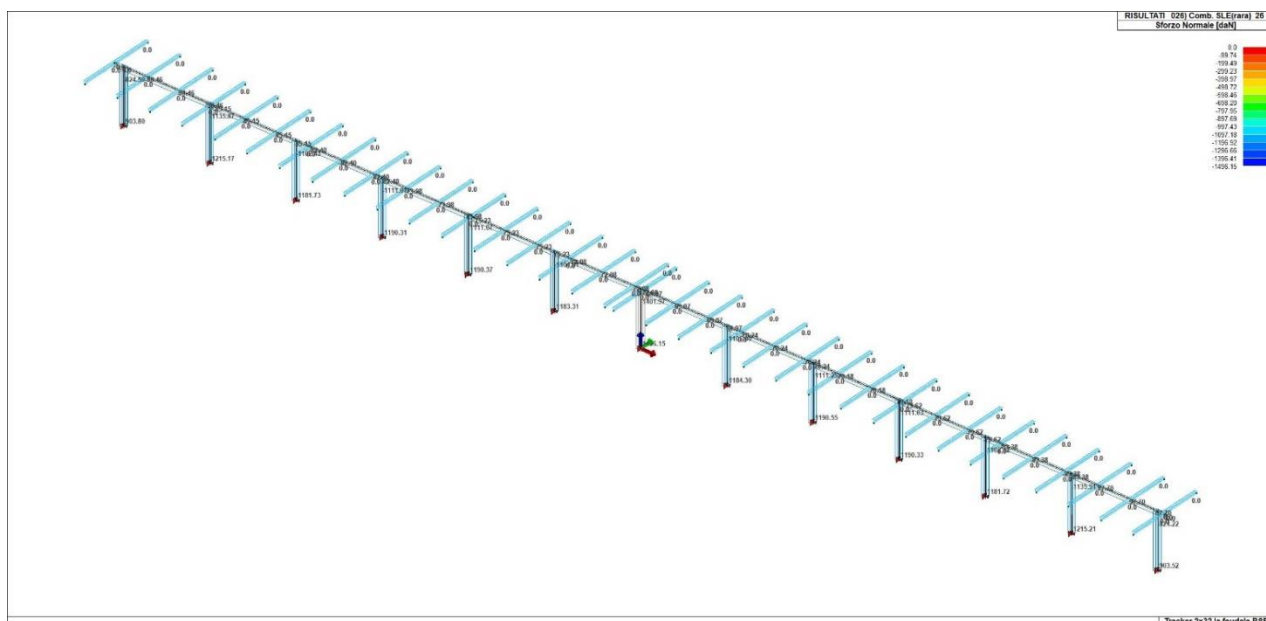
43_RIS_M3_085_Comb. SLE (SLD Danno sism.) 85



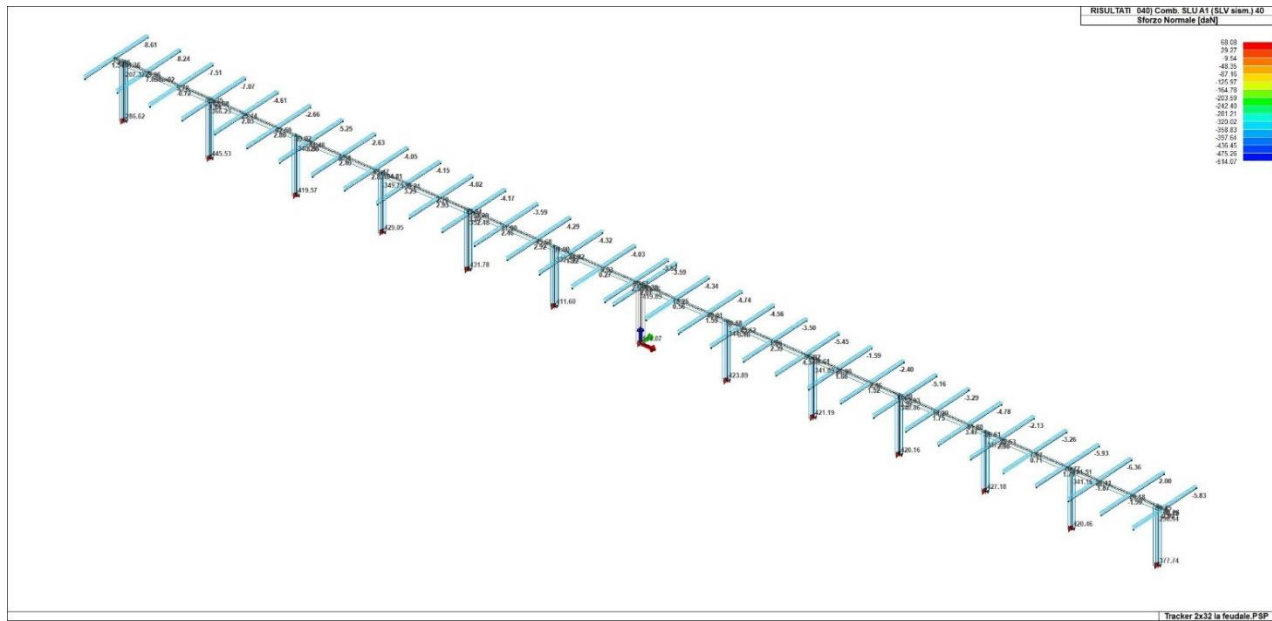
43_RIS_N_002_Comb. SLU A1 2



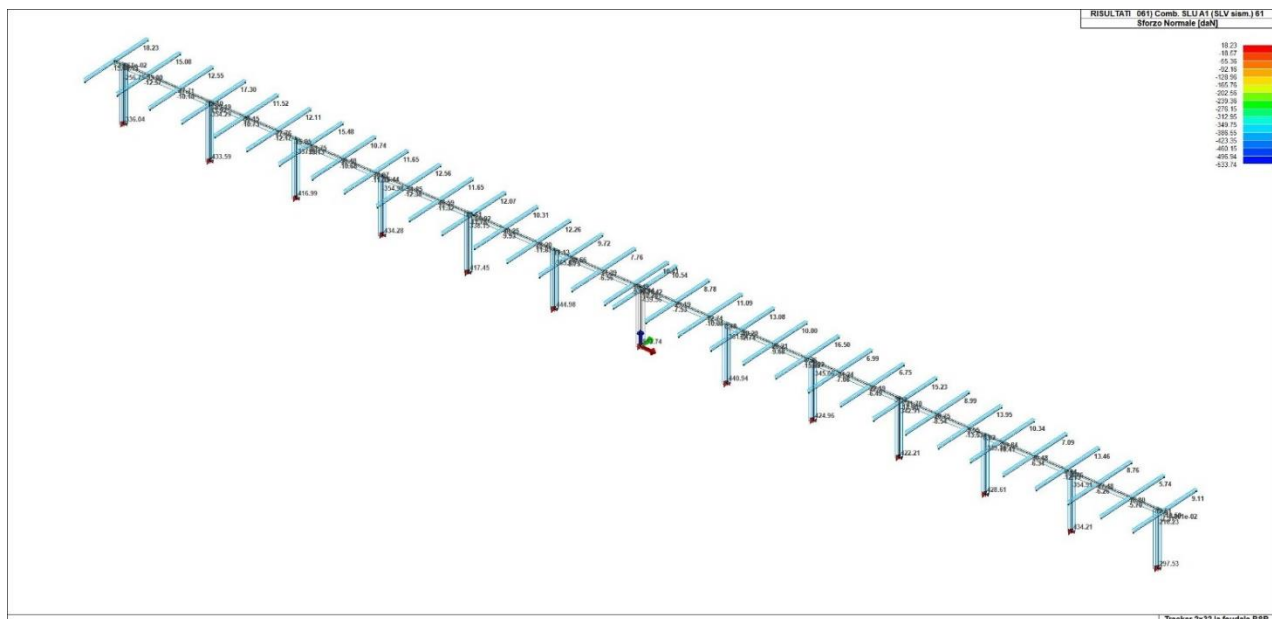
43_RIS_N_022_Comb. SLE(freq.) 22



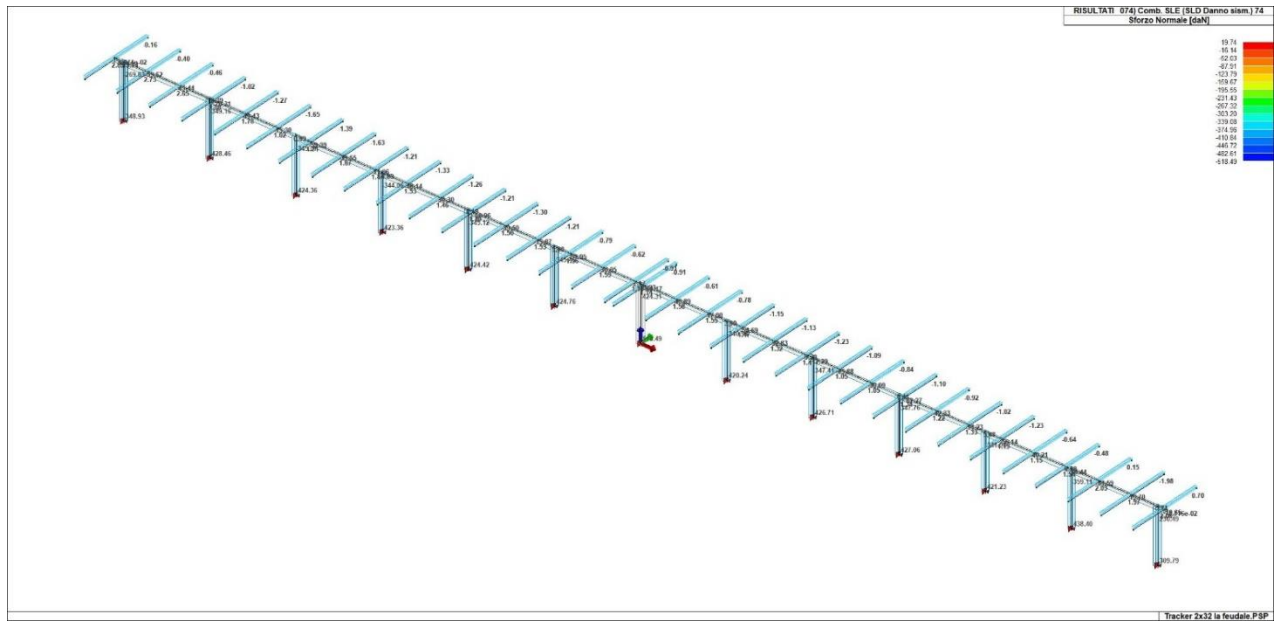
43_RIS_N_026_Comb. SLE(rara) 26



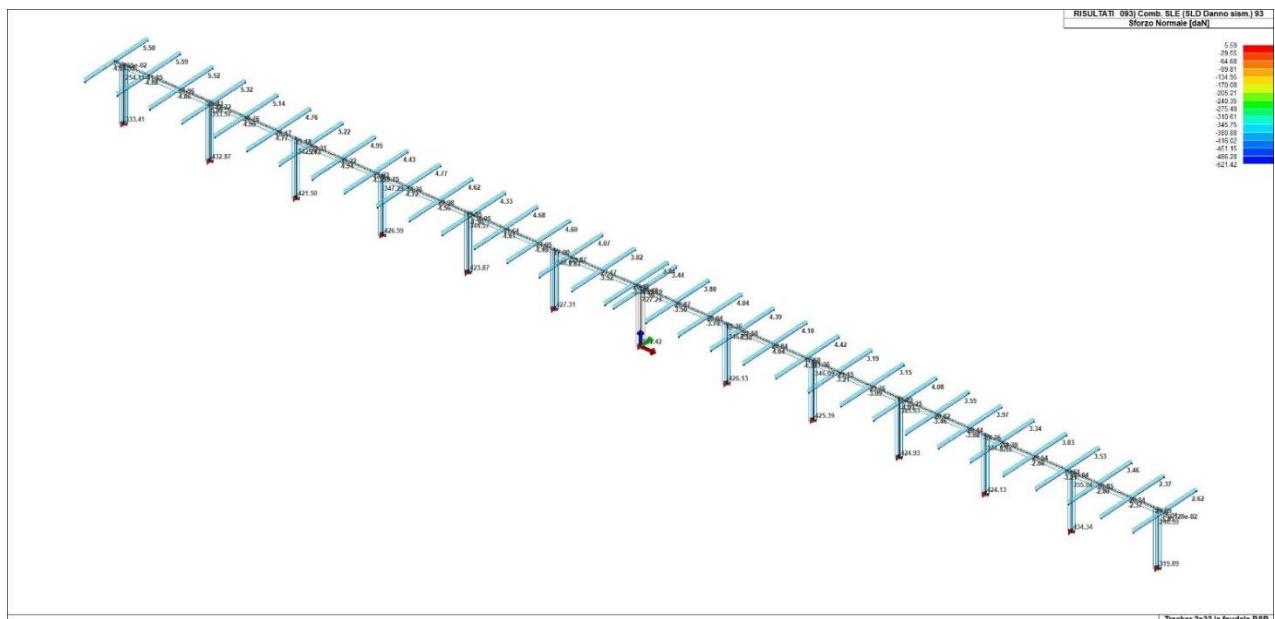
43_RIS_N_040_Comb. SLU A1 (SLV sism.) 40



43_RIS_N_061_Comb. SLU A1 (SLV sism.) 61



43_RIS_N_074_Comb. SLE (SLD Danno sism.) 74



43_RIS_N_093_Comb. SLE (SLD Danno sism.) 93

24. VERIFICHE PER ELEMENTI IN ACCIAIO

24.1. LEGENDA TABELLA VERIFICHE PER ELEMENTI IN ACCIAIO

Il programma consente la verifica dei seguenti tipi di elementi:

1. **aste** 2. **travi** 3. **pilastr**

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

Ok: verifica con esito positivo

NV: verifica con esito negativo

Nr: verifica non richiesta.

Per comodità gli elementi vengono raggruppati in tabelle in relazione al tipo.

Ai fini delle verifiche (come da D.M. 17 Gennaio 2018 e circolare 21 Gennaio 2019 n.7) i tipi elementi differiscono per i seguenti aspetti:

Verifica	Aste	Travi	Pilastr
4.2.3.1 Classificazione	X	X	X
4.2.4.1.2.1 Trazione	X	X	X
4.2.4.1.2.2 Compressione	X	X	X
4.2.4.1.2.4 Taglio		X	X
4.2.4.1.2.5 Torsione		X	X
Flessione, taglio e forza assiale		X	X
4.2.4.1.3.1 Aste compresse	X	X	X
4.2.4.1.3.2 Instabilità flesso-torsionale		X	X
4.2.4.1.3.3 Membrature inflesse e compresse		X	X

Ai fini delle verifiche per strutture dissipative (come da D.M. 17 Gennaio 2018 e 2018 e circolare 21 Gennaio 2019 n.7) per strutture intelaiate e a controventi concentrici) si considerano le verifiche del capitolo 4 con azioni amplificate e le verifiche del capitolo 7:

Verifica	Travi	Pilastr
4.2.4.1.2.1 Trazione	X	X
4.2.4.1.2.2 Compressione	X	X

4.2.4.1.2.4	Taglio	X	X
4.2.4.1.2.5	Torsione	X	X
	Flessione, taglio e forza assiale	X	X
4.2.4.1.3.1	Aste compresse	X	X
4.2.4.1.3.2	Instabilità flesso-torsionale		X
7.5.3	Sfruttamento per momento	X	
7.5.4	Sfruttamento per sforzo normale	X	
7.5.5	Sfruttamento per taglio da capacità flessionale	X	
7.5.9	Sfruttamento per taglio amplificato		X

Viene inoltre riportata la verifica della “Gerarchia delle resistenze trave-colonna” per ogni colonna, considerando piede e testa in entrambe le direzioni globali X e Y.

L' insieme delle verifiche sopra riportate è condotto sugli elementi purché dotati di sezione idonea come da tabella seguente:

Azione	SEZIONI GENERICHE	PROFILI SEMPLICI	PROFILI ACCOPPIATI
4.2.3.1 Classificazione automatica	L, doppio T, C, rettangolare cava, circolare cava	Tutti	Da profilo semplice
4.2.3.1 Classificazione di default 2	Circolare		
4.2.3.1 Classificazione di default 3	restanti		
4.2.4.1.2.1 Trazione	si	si	si
4.2.4.1.2.2 Compressione	si	si	si
4.2.4.1.2.4 Taglio	si	si	si
4.2.4.1.2.5 Torsione	si	si	si
	Flessione, taglio e forza assiale	si	si
4.2.4.1.3.1 Aste compresse	si	si	per elementi ravvicinati e a croce o coppie calastrellate
4.2.4.1.3.2 Travi inflesse	doppio T simmetrica	doppio T	no

Le verifiche sono riportate in tabelle con il significato sotto indicato; le verifiche sono espresse dal rapporto tra l' azione di progetto e la capacità ultima, pertanto la verifica ha esito positivo per rapporti non superiori all' unità.

Asta	Trave	Pilastro				numero dell'elemento
Stato						codice di verifica per resistenza, stabilità, svergolamento
Note						sezione e materiali adottati per l'elemento
V N						(ASTE) verifica come da par. 4.2.4.1.2 per punto (4.2.6) e (4.2.10)
V V/T						(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni taglio-torsione (4.2.16 e 4.2.28)
V N/M						(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni composte (4.2.33) con riduzione per taglio (4.2.40) ove richiesto
N	M3	M2	V2	V3	T	sollecitazioni di interesse per la verifica
V stab						(ASTE) verifica come da par. 4.2.4.1.3.1 per punto (4.2.41)
V stab						(TRAVI E PILASTRI) verifica come da par. 4.2.4.1.3 per punti (C4.2.32) o (C4.2.36) (membrature inflesse e compresse senza/con presenza di instabilità flessione-torsionale)
BetaxL		B22xL		B33xL		lunghezze libere di inflessione (se indicato riferiti al piano di normale 22 o 33 rispettivamente)
Snellezza						snellezza massima
Classe						classe del profilo
Chi mn						coefficiente di riduzione (della capacità) per la modalità di instabilità pertinente
Rif. cmb						combinazioni in cui si sono rispettivamente attinti i valori di verifica più elevati
V flst						(TRAVI E PILASTRI) verifica di stabilità come da par. 4.2.4.1.3.2 per punto (4.2.48)
B1-1 x L						Beta1-1 x L: interasse tra i ritegni torsionali
Chi LT						coefficiente di riduzione (della capacità) per la modalità di instabilità flessione-torsionale
Snell adim						Valore della snellezza adimensionale, utilizzato per il controllo previsto al par. 7.5.5
v.Omeg						Valore del rapporto capacità/domanda per l' azione di interesse (momento per travi e azione assiale per aste) utilizzato per l' amplificazione delle azioni

f.Om. N	Fattore di amplificazione delle azioni assiali per travi e colonne (prodotto di $1.1 \times \Omega \times \gamma_{rd}$ materiale); utilizzato come specificato al par. 7.5.5
f.Om. T	Fattore di amplificazione delle azioni (assiali, flettenti e taglianti) per colonne (prodotto di $1.1 \times \Omega \times \gamma_{rd}$ materiale); utilizzato come specificato al par. 7.5.4
V.7.5.4 M Ed	Verifica come prevista al punto 7.5.4 e valore dell' azione flettente
V.7.5.5 N Ed	Verifica come prevista al punto 7.5.5 e valore dell' azione assiale
V.7.5.6 V Ed,G V Ed,M	Verifica come prevista al punto 7.5.6 e valore dei tagli dovuti ai carichi e alla capacità
V.7.5.10 V Ed	Verifica come prevista al punto 7.5.10 e valore dell' azione di taglio
sovr. Xi (Xf, Yi, Yf)	Valore della sovrarresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a γ_{rd} in base alla classe di duttilità)

Nel caso in cui λ_{S} sia minore di 0.2, oppure nel caso in cui la sollecitazione di calcolo NEd sia inferiore a $0.04 N_{cr}$, gli effetti legati ai fenomeni di instabilità sono trascurati, come da paragrafo 4.2.4.1.3.1

Con riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
61	ACCIAIO D.M. 2008
63	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P- δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P- δ SU TELAIO 3D

8	ok s=3,m=13	0.03	0.15
2,2,0,0			
15	ok s=3,m=13	0.03	0.12
5,2,0,0			
16	ok s=3,m=13	0.05	0.14
5,2,0,0			
17	ok s=3,m=13	0.04	0.15
5,2,0,0			
18	ok s=3,m=13	0.04	0.15
7,2,0,0			
19	ok s=3,m=13	0.05	0.14
6,2,0,0			
20	ok s=3,m=13	0.03	0.14
6,2,0,0			
21	ok s=3,m=13	0.03	0.14
5,2,0,0			
22	ok s=3,m=13	0.05	0.15
5,2,0,0			
23	ok s=3,m=13	0.04	0.15
5,2,0,0			
24	ok s=3,m=13	0.04	0.15
5,2,0,0			
25	ok s=3,m=13	0.05	0.14
5,2,0,0			
26	ok s=3,m=13	0.03	0.05
5,2,0,0			
27	ok s=5,m=13	0.04	0.20
48,2,0,0			
28	ok s=5,m=13	0.04	0.25
40,2,0,0			
29	ok s=5,m=13	0.04	0.20
47,2,0,0			
30	ok s=5,m=13	0.04	0.25
40,2,0,0			
31	ok s=5,m=13	0.06	0.20
43,2,0,0			
32	ok s=5,m=13	0.06	0.25
36,2,0,0			
33	ok s=5,m=13	0.06	0.20
43,2,0,0			
34	ok s=5,m=13	0.06	0.25
36,2,0,0			
35	ok s=5,m=13	0.05	0.20
43,2,0,0			
36	ok s=5,m=13	0.05	0.25
36,2,0,0			
37	ok s=5,m=13	0.05	0.20
43,2,0,0			
38	ok s=5,m=13	0.05	0.25
36,2,0,0			
39	ok s=5,m=13	0.05	0.20
43,2,0,0			
40	ok s=5,m=13	0.05	0.25
36,2,0,0			
41	ok s=5,m=13	0.05	0.20
43,2,0,0			
42	ok s=5,m=13	0.05	0.25
36,2,0,0			
43	ok s=5,m=13	0.05	0.20
43,2,0,0			
44	ok s=5,m=13	0.05	0.25
36,2,0,0			
45	ok s=5,m=13	0.05	0.20
43,2,0,0			
46	ok s=5,m=13	0.05	0.25
39,2,0,0			
47	ok s=5,m=13	0.05	0.20
43,2,0,0			
48	ok s=5,m=13	0.05	0.25
36,2,0,0			
49	ok s=5,m=13	0.05	0.20
43,2,0,0			
50	ok s=5,m=13	0.05	0.25
35,2,0,0			
51	ok s=5,m=13	0.06	0.20

43,2,0,0					
52	ok s=5,m=13	0.06	0.25	3	
36,2,0,0					
53	ok s=5,m=13	0.07	0.20	3	
43,2,0,0					
54	ok s=5,m=13	0.07	0.25	3	
35,2,0,0					
55	ok s=5,m=13	0.06	0.20	3	
43,2,0,0					
56	ok s=5,m=13	0.06	0.25	3	
36,2,0,0					
57	ok s=5,m=13	0.04	0.20	3	
43,2,0,0					
58	ok s=5,m=13	0.04	0.25	3	
36,2,0,0					
59	ok s=5,m=13	0.05	0.20	3	
43,2,0,0					
60	ok s=5,m=13	0.05	0.25	3	
36,2,0,0					
61	ok s=3,m=13 8.16e-05 3.10e-05			1	
2,62,0,0					
62	ok s=3,m=13	0.01	0.07	1	
53,2,0,0					
63	ok s=3,m=13	0.02	0.09	1	
6,2,0,0					
64	ok s=3,m=13	0.01	0.09	1	
2,2,0,0					
65	ok s=3,m=13 3.20e-03	0.06		1	
51,2,0,0					
66	ok s=3,m=13	0.02	0.09	1	
51,2,0,0					
67	ok s=3,m=13 9.68e-03	0.09		1	
52,2,0,0					
68	ok s=3,m=13 8.16e-05 2.80e-05			1	
2,36,0,0					
69	ok s=3,m=13	0.03	0.12	1	
6,2,0,0					
70	ok s=3,m=13 9.13e-03	0.09		1	
2,2,0,0					
71	ok s=3,m=13	0.02	0.09	1	
5,2,0,0					
72	ok s=3,m=13	0.03	0.14	1	
5,2,0,0					
73	ok s=3,m=13	0.01	0.09	1	
52,2,0,0					
74	ok s=3,m=13	0.02	0.09	1	
51,2,0,0					
75	ok s=3,m=13	0.04	0.15	1	
5,2,0,0					
76	ok s=3,m=13	0.05	0.15	1	
5,2,0,0					
77	ok s=3,m=13	0.04	0.15	1	
5,2,0,0					
78	ok s=3,m=13	0.05	0.14	1	
5,2,0,0					
79	ok s=5,m=13	0.04	0.20	3	
43,2,0,0					
80	ok s=5,m=13	0.04	0.25	3	
40,2,0,0					
81	ok s=3,m=13	0.01	0.09	1	
59,2,0,0					
82	ok s=3,m=13	0.02	0.09	1	
5,2,0,0					
83	ok s=5,m=13	0.04	0.20	3	
43,2,0,0					
84	ok s=5,m=13	0.04	0.25	3	
35,2,0,0					
85	ok s=5,m=13	0.06	0.20	3	
47,2,0,0					
86	ok s=5,m=13	0.06	0.25	3	
40,2,0,0					
87	ok s=5,m=13	0.06	0.20	3	
47,2,0,0					
88	ok s=5,m=13	0.06	0.25	3	
39,2,0,0					

89	ok s=5,m=13	0.05	0.20	3
48,2,0,0				
90	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
91	ok s=5,m=13	0.05	0.20	3
43,2,0,0				
92	ok s=5,m=13	0.05	0.25	3
35,2,0,0				
93	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
94	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
95	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
96	ok s=5,m=13	0.05	0.25	3
39,2,0,0				
97	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
98	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
99	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
100	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
101	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
102	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
103	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
104	ok s=5,m=13	0.05	0.25	3
40,2,0,0				
105	ok s=5,m=13	0.06	0.20	3
47,2,0,0				
106	ok s=5,m=13	0.06	0.25	3
40,2,0,0				
107	ok s=5,m=13	0.07	0.20	3
47,2,0,0				
108	ok s=5,m=13	0.07	0.25	3
40,2,0,0				
109	ok s=5,m=13	0.06	0.20	3
47,2,0,0				
110	ok s=5,m=13	0.06	0.25	3
40,2,0,0				
111	ok s=5,m=13	0.04	0.20	3
48,2,0,0				
112	ok s=5,m=13	0.04	0.25	3
40,2,0,0				
113	ok s=5,m=13	0.05	0.20	3
47,2,0,0				
114	ok s=5,m=13	0.05	0.25	3
39,2,0,0				
115	ok s=3,m=13	0.03	0.15	1
2,2,0,0				
116	ok s=3,m=13	0.05	0.14	1
7,2,0,0				
117	ok s=3,m=13	0.04	0.15	1
6,2,0,0				
118	ok s=3,m=13	0.03	0.14	1
5,2,0,0				
119	ok s=3,m=13	0.05	0.15	1
5,2,0,0				
120	ok s=3,m=13	0.04	0.15	1
5,2,0,0				
121	ok s=3,m=13	0.03	0.05	1
5,2,0,0				
122	ok s=3,m=13	0.01	0.07	1
59,2,0,0				
123	ok s=3,m=13	0.02	0.09	1
5,2,0,0				
124	ok s=3,m=13	0.01	0.09	1
59,2,0,0				
125	ok s=3,m=13 3.27e-03	0.06		1
60,2,0,0				
126	ok s=3,m=13	0.02	0.09	1

60,2,0,0
127 ok s=3,m=139.37e-03 0.09 1
59,2,0,0
128 ok s=3,m=139.07e-03 0.09 1
2,2,0,0
129 ok s=3,m=13 0.02 0.09 1
5,2,0,0

Trave V V/T V N/M V stab LamS 22LamS 33 Snell. Chi mn V flstLamS LT Chi LT
0.07 0.25

Trave Ed,M	v.Omeg	f.Om. N	Stato	V N/M	V stab	Rif. cmb	V[7.5.4]	M Ed daN cm	V[7.5.5]	N Ed daN	V[7.5.6]	V Ed,G V daN
8							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
15							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
16							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
17							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
18							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
19							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
20							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
21							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
22							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
23							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
24							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
25							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
26							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
27							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
28							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
29							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
30							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
31							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
32							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
33							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
34							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
35							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
36							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
37							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
38							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
39							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
40							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
41							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
42							0.0	0.0	0.0	0.0	0.0	0.0
0.0												
43							0.0	0.0	0.0	0.0	0.0	0.0

0.0							
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0							

 		CODE CODICE					
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81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118	0.0	0.0	0.0	0.0	0.0	0.0	0.0

0.0							
119		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
120		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
121		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
122		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
123		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
124		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
125		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
126		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
127		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
128		0.0	0.0	0.0	0.0	0.0	0.0
0.0							
129		0.0	0.0	0.0	0.0	0.0	0.0
0.0							

Trave v.Omeg	V N/M	V stab	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G V
Ed,M								
0.0				0.0		0.0		0.0
0.0			0.0	0.0	0.0	0.0	0.0	0.0
0.0								

Pilas. cmb	Stato	Note	V V/T	V N/M	V stab	Cl.LamS 22LamS 33	Snell.	Chi mn	V flstLamS LT	Chi LT	Rif.
1	ok	s=1,m=13 3.09e-03		0.04		2			0.02	0.3	1.00
60,40,0,60											
2	ok	s=2,m=13 4.01e-03		0.05		2			0.03	0.3	1.00
51,44,0,51											
3	ok	s=2,m=13 4.62e-03		0.04		2			0.03	0.3	1.00
52,46,0,52											
4	ok	s=2,m=13 4.81e-03		0.04		2			0.03	0.3	1.00
52,37,0,52											
5	ok	s=2,m=13 5.80e-03		0.05		2			0.04	0.3	1.00
51,57,0,51											
6	ok	s=2,m=13 5.37e-03		0.06		2			0.03	0.3	1.00
52,46,0,52											
7	ok	s=2,m=13 4.20e-03		0.06		2			0.03	0.3	1.00
51,44,0,54											
9	ok	s=2,m=13 4.06e-03		0.05		2			0.03	0.3	1.00
52,40,0,60											
10	ok	s=2,m=13 4.54e-03		0.04		2			0.03	0.3	1.00
59,39,0,59											
11	ok	s=2,m=13 4.72e-03		0.04		2			0.03	0.3	1.00
59,48,0,59											
12	ok	s=2,m=13 5.68e-03		0.05		2			0.04	0.3	1.00
60,60,0,60											
13	ok	s=2,m=13 5.29e-03		0.06		2			0.03	0.3	1.00
59,48,0,59											
14	ok	s=2,m=13 3.90e-03		0.06		2			0.02	0.3	1.00
60,41,0,60											

Pilas.	V V/T	V N/M	V stab	LamS 22LamS 33	Snell.	Chi mn	V flstLamS LT	Chi LT
	5.80e-03	0.06					0.04	0.30
								1.00

Pilas. f.Om. N f.Om. T	Stato	V V/T	V N/M	V stab	V flst	Rif. cmbV[7.5.10]	V Ed sovr.	Xi sovr.	Xfsovr.	Yi
sovr. Yf							daN			
1	0.0	0.0	ok	0.0	0.0	0,0,0,0				
2	0.0	0.0	ok	0.0	0.0	0,0,0,0				

LUMINORA LA FEUDALE SRL 				 WE ENGINEERING				CODE CODICE				
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3	0.0	0.0	ok	0.0	0.0	0,0,0,0						
4	0.0	0.0	ok	0.0	0.0	0,0,0,0						
5	0.0	0.0	ok	0.0	0.0	0,0,0,0						
6	0.0	0.0	ok	0.0	0.0	0,0,0,0						
7	0.0	0.0	ok	0.0	0.0	0,0,0,0						
9	0.0	0.0	ok	0.0	0.0	0,0,0,0						
10	0.0	0.0	ok	0.0	0.0	0,0,0,0						
11	0.0	0.0	ok	0.0	0.0	0,0,0,0						
12	0.0	0.0	ok	0.0	0.0	0,0,0,0						
13	0.0	0.0	ok	0.0	0.0	0,0,0,0						
14	0.0	0.0	ok	0.0	0.0	0,0,0,0						
Pilas. sovr. Yf				V V/T	V N/M	V stab	V flst	V[7.5.10]	V Ed sovr.	Xi sovr.	Xfsovr.	Yi
				0.0	0.0							

25. STATI LIMITE D' ESERCIZIO ACCIAIO

25.1. LEGENDA TABELLA STATI LIMITE D' ESERCIZIO ACCIAIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

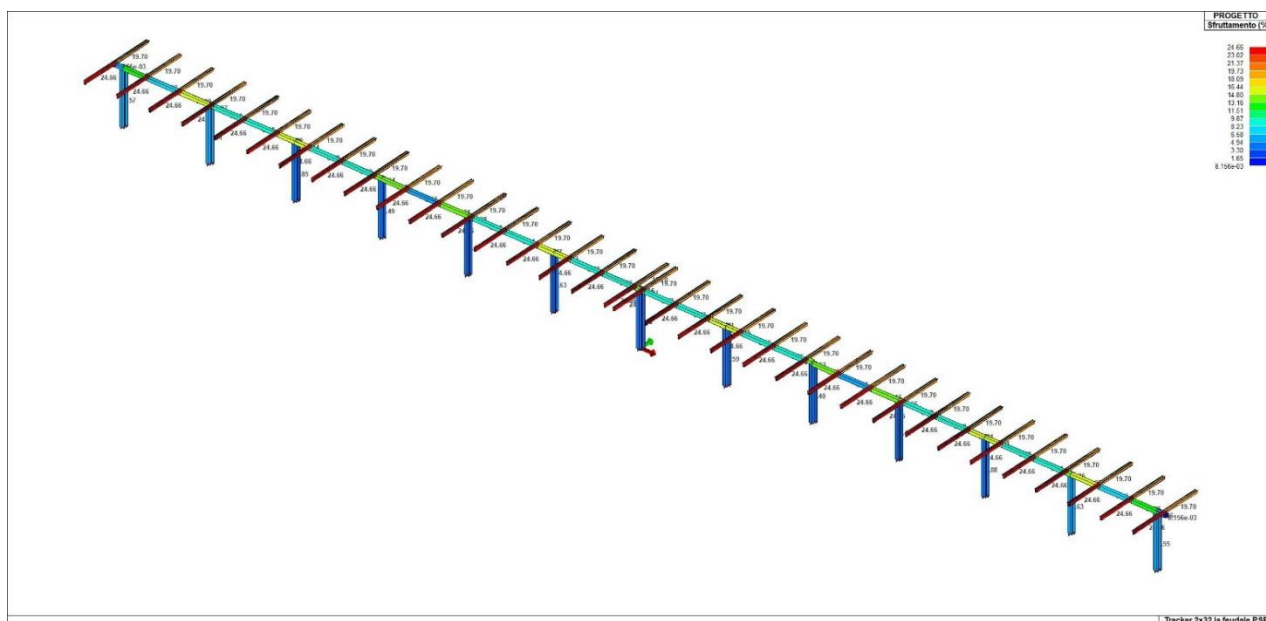
In particolare vengono riportati, per gli elementi trave, i risultati relativi alle combinazioni considerate (rare o caratteristiche).

I valori di interesse sono i seguenti:

f*1000/L	massima deformazione normalizzata in combinazioni rare

Si precisa che i valori di massima deformazione per travi sono riferiti ai due piani locali (1-2 con momenti flettenti 3-3 e 1-3 con momenti flettenti 2-2). Il valore riportato (massimo) è espresso in 1000/L per rendere agevole il confronto di più valori e in particolare di più range di valori (ad esempio 2 rappresenta L/500, 4 L/250 e così via).

Trave f*1000/L f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L	Trave f*1000/L
8	1.0	15	1.1	16	0.2	17	0.7	18	0.7	19	0.3	20
0.8												
21	0.9	22	0.3	23	0.7	24	0.7	25	0.2	26	0.4	27
1.2												
28	2.7	29	1.5	30	3.2	31	1.2	32	3.0	33	1.2	34
3.0												
35	1.5	36	3.3	37	1.1	38	2.8	39	1.4	40	3.2	41
1.4												
42	3.2	43	1.1	44	2.8	45	1.5	46	3.3	47	1.2	48
3.0												
49	1.2	50	3.0	51	1.5	52	3.2	53	1.2	54	2.7	55
1.3												
56	3.1	57	1.3	58	3.1	59	1.3	60	2.7	61	0.3	62
0.3												
63	0.8	64	0.6	65	0.2	66	0.8	67	0.5	68	0.3	69
1.1												
70	0.5	71	0.8	72	0.9	73	0.6	74	0.8	75	0.7	76
0.3												
77	0.7	78	0.2	79	1.2	80	2.7	81	0.6	82	0.8	83
1.5												
84	3.2	85	1.2	86	3.0	87	1.2	88	3.0	89	1.5	90
3.3												
91	1.1	92	2.8	93	1.4	94	3.2	95	1.4	96	3.2	97
1.1												
98	2.8	99	1.5	100	3.3	101	1.2	102	3.0	103	1.2	104
3.0												
105	1.5	106	3.2	107	1.2	108	2.7	109	1.3	110	3.1	111
1.3												
112	3.1	113	1.3	114	2.7	115	1.0	116	0.2	117	0.7	118
0.8												
119	0.3	120	0.7	121	0.4	122	0.3	123	0.8	124	0.6	125
0.2												
126	0.8	127	0.5	128	0.5	129	0.8					



73_PRO_ST_SFRUTTAMENTO

73_PRO_ST_SNELLEZZAXX

